The Humanist Approach to Healthcare AI: Balancing Innovation with Patient Care Transcript

(Transcripts are generated by AI and may contain errors)

podcast. Today we're joined by our two podcast. Today we're joined by our two quad coho uh co co-hosts Harvey Castro quad coho uh co co-hosts Harvey Castro and Edward Marks and it seems both of and Edward Marks and it seems both of them are in Dallas. And of course we them are in Dallas. And of course we have our amazing guest today, Mr. uh have our amazing guest today, Mr. uh Filipe uh Gerald. He is known in the Filipe uh Gerald. He is known in the industry u to be an you know futurist industry u to be an you know futurist for AI. He has served at multiple for AI. He has served at multiple different companies. He's going to do a different companies. He's going to do a proper introduction and we just wanted proper introduction and we just wanted to start with summer and by the way to start with summer and by the way reminded that you know I have a reminded that you know I have a 10-year-old and a 17y old and I didn't 10-year-old and a 17y old and I didn't realize that it is kind of odd that they realize that it is kind of odd that they are at home the whole day. [laughter] are at home the whole day. [laughter] [gasps] [gasps] [gasps] So I have much more human contact uh in So I have much more human contact uh in the last three days than I contact which the last three days than I contact which is actually a breath of fresh air. So as is actually a breath of fresh air. So as Ed says uh keep learning but also Ed says uh keep learning but also maintain your humanity. Uh so we're maintain your humanity. Uh so we're going to go ahead and first let Filipe going to go ahead and first let Filipe introduce himself and then we're going introduce himself and then we're going to have a casual conversation and the to have a casual conversation and the idea behind it is to regroup one of idea behind it is to regroup one of these things when we have this you know these things when we have this you know 30 years experienced guest coming in and 30 years experienced guest coming in and not to glue with updates of I know not to glue with updates of I know Gemini 3.5 came out and Claude is 4.8 is Gemini 3.5 came out and Claude is 4.8 is coming and you know this and that but coming and you know this and that but the idea is to just step back and the idea is to just step back and understand where the industry is going understand where the industry is going in the next 10 years. uh 10 years is in the next 10 years. uh 10 years is probably too much now. I mean, we don't probably too much now. I mean, we don't know what the freaking next week is know what the freaking next week is going to look like, but at least we're going to look like, but at least we're going to go ahead and get his opinion on going to go ahead and get his opinion on how to prepare ourselves. either you are how to prepare ourselves. either you are a you know a a hospitalist as a a you know a a hospitalist as a clinician as an administrator as a you clinician as an administrator as a you know a pharma company expert Medicare know a pharma company expert Medicare policy maker whoever you are I think the policy maker whoever you are I think the idea is to understand how things are idea is to understand how things are changing and how we can adapt to this changing and how we can adapt to this change fast-paced change one of the change fast-paced change one of the things that came on New York Times things that came on New York Times recently I sent it to you Harvey and Ed recently I sent it to you Harvey and Ed that uh humans are not adapted to this that uh humans are not adapted to this fastpaced exchange. So we're going to fastpaced exchange. So we're going to talk about all of this. Filipe again talk about all of this. Filipe again very grateful that you came online with very grateful that you came online with us as a guest. We're going to bring you us as a guest. We're going to bring you again uh in future because now I realize again uh in future because now I realize how amazing work you have done in the how amazing work you have done in the past. But why don't you formally past. But why don't you formally introduce to our audience which by the introduce to our audience which by the way Ed Harvey has an amazing audience uh way Ed Harvey has an amazing audience uh and uh we'll go from there.

and uh we'll go from there. >> Okay. Thank you very much you know for >> Okay. Thank you very much you know for the kind introduction but even more for the kind introduction but even more for the invitation because you know I I love the invitation because you know I I love this kind of you know very open this kind of you know very open discussion not prepared running with the discussion not prepared running with the flow you know so uh my name is Philip flow you know so uh my name is Philip Geriel as mentioned uh I'm French again Geriel as mentioned uh I'm French again nobody is perfect you know but I work nobody is perfect you know but I work mainly in Switzerland you know so 30 mainly in Switzerland you know so 30 years in Switzerland because I'm living years in Switzerland because I'm living at the border with Switzerland so I at the border with Switzerland so I spent 30 years in big corporation I spent 30 years in big corporation I would say half of it in especially would say half of it in especially chemical and half of it in pharma. So my chemical and half of it in pharma. So my last job was at at Novatis but I left

in last job was at at Novatis but I left in 2018 and then I moved in other 2018 and then I moved in other direction. So during my time Novatis and direction. So during my time Novatis and even especially chemicals you know I was even especially chemicals you know I was mainly IT supply chain you you know and mainly IT supply chain you you know and when I left I I was already an when I left I I was already an international speaker uh many events but international speaker uh many events but more more in in technology at that time.

more more in in technology at that time. So know was time of blockchain, IoT, big So know was time of blockchain, IoT, big data, all that stuff which I'm not data, all that stuff which I'm not saying is is is not there anymore but it saying is is is not there anymore but it become at least we don't talk less about become at least we don't talk less about it is part of the of the landscape it is part of the of the landscape although big big data we could still although big big data we could still argue you know because big data is still argue you know because big data is still a very hot topic but then I moved more a very hot topic but then I moved more uh on the healthcare side you know and uh on the healthcare side you know and more as a patient and was quite more as a patient and was quite interesting because I said I talked also interesting because I said I talked also early on and I think that's the time early on and I think that's the time where I met also are in person you know where I met also are in person you know about the healthcare metaverse you know about the healthcare metaverse you know which is uh and it might be an which is uh and it might be an interesting topic not the healthcare interesting topic not the healthcare metaverse but the whole adoption of metaverse but the whole adoption of those technologies you know everything those technologies you know everything is going quick but the adoption is still is going quick but the adoption is still not that quick you know so I think we not that quick you know so I think we still are facing that that issue uh I still are facing that that issue uh I said I may I may be older than than some said I may I may be older than than some of you uh but I I lived in a time where of you uh but I I lived in a time where technology was behind you know technology was behind you know technology couldn't doesn't deliver what technology couldn't doesn't deliver what we were need needing in in the business.

we were need needing in in the business. Now I think it's the opposite. Now I think it's the opposite. technology is quicker and we are slow in technology is quicker and we are slow in the adoption you know so uh but I said the adoption you know so uh but I said I'm inter speaker went to many countries I'm inter speaker went to many countries I'm very proud that some of the I'm very proud that some of the countries I did together with Harvey so countries I did together with Harvey so I think we were together in Lisbborne we I think we were together in Lisbborne we were together in South Africa uh last were together in South Africa uh last year we were together in in Dubai so I'm year we were together in in Dubai so I'm always happy when I can meet people like always happy when I can meet people like Harvey we have I would say daily Harvey we have I would say daily contacts online but when we can meet in contacts online but when we can meet in person is something different you know person is something different you know so That's maybe the the the last piece I so That's maybe the the the last piece I would like to mention because you know I would like to mention because you know I don't want to make it much longer in don't want to make it much longer in terms of introduction and come to the terms of introduction and come to the topic but I'm also a humanist you know topic but I'm also a humanist you know so that's the point and people ask me so that's the point and people ask me you know what does that mean you know you know what does that mean you know digitalization humanist or however you digitalization humanist or however you call it and for me it's basically you call it and for me it's basically you know I'm big fan of all those know I'm big fan of all those technologies you know but that those technologies you know but that those technologies should serve the human and technologies should serve the human and not the other way around and I think uh not the other way around and I think uh we have a lot of challenges in that we have a lot of challenges in that space because you know we uh we could space because you know we uh we could even become better human again because even become better human again because I'm saying again because I think we lost I'm saying again because I think we lost some of that you know in that space but some of that you know in that space but the risk of not doing it is probably the risk of not doing it is probably higher than than doing that but I think higher than than doing that but I think that's enough for the introduction you that's enough for the introduction you know and I'm happy to answer more know and I'm happy to answer more questions but even I think getting more questions but even I think getting more into the topics and sharing the the into the topics and sharing the the stage with you guys stage with you guys >> today I'm going to start with Ed because >> today I'm going to start with Ed because um Ed had a very similar journey in the um Ed had a very similar journey in the sense that his introduction into AI was sense that his introduction into AI was more about from a patient lens not to more about from a patient lens not to mention of course he's a board member of mention of course he's a board member of hospitals and systems and everything but hospitals and

systems and everything but more more so his interest peaked with as more more so his interest peaked with as a patient and then uh so Ed uh again I a patient and then uh so Ed uh again I see your lovely family members on your see your lovely family members on your lap so uh thanks for joining as our co- lap so uh thanks for joining as our co- mass amazing co-host I I'll get you the mass amazing co-host I I'll get you the baton first and then Harvey and they baton first and then Harvey and they know each other so they're going to know each other so they're going to collude with us. So, let's just let's collude with us. So, let's just let's just push things to our side now.

just push things to our side now. >> No, Filipe, it's great to have you as >> No, Filipe, it's great to have you as part of a signal and symptoms and you part of a signal and symptoms and you you bring a great perspective. Yeah, I'm you bring a great perspective. Yeah, I'm I'm rarely home and so my dog rarely I'm rarely home and so my dog rarely sees me and so she was like she's like sees me and so she was like she's like uh you know running around the house and uh you know running around the house and she's like, "Oh, podcast. I'm gonna jump she's like, "Oh, podcast. I'm gonna jump onto the podcast." And so that's that's onto the podcast." And so that's that's what's going on there. But yeah, you what's going on there. But yeah, you know, someone said something provocative know, someone said something provocative to me earlier this week and I wanted to to me earlier this week and I wanted to get as as a futurist and as a humanist get as as a futurist and as a humanist wanted to get your perspective on it and wanted to get your perspective on it and they were like, "Hey, AI is a bubble." they were like, "Hey, AI is a bubble." And I, you know, after I explored it a And I, you know, after I explored it a little bit with them, you know, I I I little bit with them, you know, I I I wondered a little bit more about it. I'd wondered a little bit more about it. I'd love to get uh your perspective like are love to get uh your perspective like are we in a bubble or or are we in a hype we in a bubble or or are we in a hype cycle at the peak of, you know, cycle at the peak of, you know, uh over expectations you know what uh over expectations you know what what's your thought on that whole what's your thought on that whole general concept with AI general concept with AI >> yes so so first of all I think it >> yes so so first of all I think it depends what we call a bubble you know depends what we call a bubble you know because I think there will be definitely because I think there will be definitely changes you know it's ongoing things are changes you know it's ongoing things are going quickly but it's not going to going quickly but it's not going to disappear I think it's the opposite it's disappear I think it's the opposite it's going to be more and more here it might going to be more and more here it might even be I would say becoming a commodity even be I would say becoming a commodity you know because I said you see already you know because I said you see already in many uh not just in healthcare you in many uh not just in healthcare you know, it's it's it's part of that. So, know, it's it's it's part of that. So, the only thing when I'm saying where I the only thing when I'm saying where I could argue about the word bubble, you could argue about the word bubble, you know, [clears throat] there are still know, [clears throat] there are still too many solutions out there and I would too many solutions out there and I would even argue about the word solutions. Are even argue about the word solutions. Are there really solutions, you know, so there really solutions, you know, so again, everybody is using AI, not again, everybody is using AI, not everybody the word AI, sorry, but not everybody the word AI, sorry, but not everybody's having AI. So from that everybody's having AI. So from that point of view I can accept that you know point of view I can accept that you know kind of burbles some will disappear some kind of burbles some will disappear some smaller bubbles will disappear or being smaller bubbles will disappear or being integrated into bigger and not although integrated into bigger and not although I still believe uh when I say I still believe uh when I say consolidation doesn't mean consolidation consolidation doesn't mean consolidation you know to the top four or five there you know to the top four or five there will still be more you will still need will still be more you will still need some kind of uh I had a I was on a some kind of uh I had a I was on a podcast just two days ago in in Dubai uh podcast just two days ago in in Dubai uh where basically I we talked about glo where basically I we talked about glo localization, you know, part of it is localization, you know, part of it is global and part is going to be global and part is going to be localization. You know, when you travel localization. You know, when you travel around the world and it seems that you around the world and it seems that you are also traveling a lot, you know, you are also traveling a lot, you know, you see that uh it's still not one size fits see that uh it's still not one size fits all. So we should of course kind of part all. So we should of course kind of part of it should be global but part of it of it should be global but part of it should be localized starting with the should be localized starting with the language especially if you talk about language especially if you talk about patient you know English is not is not patient you know English is not is not there everywhere so all that but again there everywhere so all that but again in that case AI is not a bubble because in that case AI is not a bubble because AI will help you in terms of the AI will help you in terms of the languages in terms of literacy also you languages in terms of literacy also you know to to talk to the patient and all know to to talk to the patient and all that because sorry for my two colleagues that because sorry for my two colleagues here you

know but sometimes uh when the here you know but sometimes uh when the doctor is talking it's Chinese for the doctor is talking it's Chinese for the patient really.

patient really. >> Yeah. >> Yeah. >> Yeah. >> Harvey, why don't you answer the same >> Harvey, why don't you answer the same question given your space all all the question given your space all all the other stuff international experiences other stuff international experiences and everything and then especially the and everything and then especially the word commodity and I I use the word uh word commodity and I I use the word uh demonetized uh and uh intelligence demonetized uh and uh intelligence demonetized intelligence is is is insane demonetized intelligence is is is insane in my opinion. But anyways, Harvey, in my opinion. But anyways, Harvey, answer your lens and then ask take it answer your lens and then ask take it away.

away. away. So going from Ed's question, are we or So going from Ed's question, are we or from his friend's question, are we in a from his friend's question, are we in a bubble? I I I see it as a cultural bubble? I I I see it as a cultural shift. I don't I see the point of that, shift. I don't I see the point of that, oh, it's a bubble. We're spending all oh, it's a bubble. We're spending all this money um and we're putting all this this money um and we're putting all this things and it's going to explode and things and it's going to explode and nothing's going to happen. I don't see nothing's going to happen. I don't see it that way in that. I see it growing.

it that way in that. I see it growing. Um the foundation is being built, Um the foundation is being built, cultural awareness is changing. My cultural awareness is changing. My example is everybody on this call when example is everybody on this call when they first heard of chatbt they they had they first heard of chatbt they they had their own bias and ways of doing AI and their own bias and ways of doing AI and I want everybody out there listening how I want everybody out there listening how do you how do you use AI today? how has do you how do you use AI today? how has it changed from back then? And your mind it changed from back then? And your mind has shifted and you see things and has shifted and you see things and you're doing things and so in my mind I you're doing things and so in my mind I see AI has just shifted the way we work, see AI has just shifted the way we work, the way we do things and it's just the way we do things and it's just created this uh new new way of doing created this uh new new way of doing >> What is your next question to Filipe >> What is your next question to Filipe Hari? Um, I have so many questions and Hari? Um, I have so many questions and I'm going to hold back for a minute I'm going to hold back for a minute [laughter] because these years now I'm [laughter] because these years now I'm going to ask this.

going to ask this. >> Well, my question is I know you and I >> Well, my question is I know you and I are in conferences and and the beauty is are in conferences and and the beauty is we're in the other side of uh the planet we're in the other side of uh the planet kind of so you see things differently.

kind of so you see things differently. So my question is based on let's just So my question is based on let's just say the last six months of all the say the last six months of all the conferences all the things you're seeing conferences all the things you're seeing what has really wowed you? You're like what has really wowed you? You're like wow X concept or this is coming in the wow X concept or this is coming in the future. what what is that that you can future. what what is that that you can share with us because I know you've seen share with us because I know you've seen a lot. [snorts] a lot. [snorts] >> Yes. So, so, so it's different things >> Yes. So, so, so it's different things and and and you know, uh being like you and and and you know, uh being like you you know also called you know futurist you know also called you know futurist and things like that it's becoming and things like that it's becoming challenging because things are going challenging because things are going quicker you know so you have also to quicker you know so you have also to come more often about the future and for come more often about the future and for the for the moment I'm still lucky it the for the moment I'm still lucky it seems that I'm I'm going into the into seems that I'm I'm going into the into the right direction in in the the right direction in in the predictions but again things are coming predictions but again things are coming quicker uh I don't know if you want quicker uh I don't know if you want completely to jump there you know but I completely to jump there you know but I know you're also a big fan of those know you're also a big fan of those discussion Har you know the question discussion Har you know the question about quantum computing we are already about quantum computing we are already overwhelmed with what AI can do and the overwhelmed with what AI can do and the speed and all that we are going to be speed and all that we are going to be shocked about the combination of quantum shocked about the combination of quantum and AI because again AI is still and J and AI because again AI is still and J you you might

be more detailed in that you you might be more detailed in that you know and and answer that but AI is you know and and answer that but AI is still let's say if I simplify it you still let's say if I simplify it you know let's simplify right is still like know let's simplify right is still like the human brain but just quicker and the human brain but just quicker and more you know but it's still kind of one more you know but it's still kind of one step after the other logic and all that step after the other logic and all that quantum is going to think differently quantum is going to think differently that a human brain you know it's going that a human brain you know it's going to regularize the stuff so as I said I'm to regularize the stuff so as I said I'm I'm you know har know I'm quite often on I'm you know har know I'm quite often on the ground I I go to visit clinic I go the ground I I go to visit clinic I go to visit hospitals I want to feel the to visit hospitals I want to feel the things you know and you might be things you know and you might be surprised you know uh last week in Dubai surprised you know uh last week in Dubai I went to uh real estate friend you know I went to uh real estate friend you know quite big real estate guy in in in the quite big real estate guy in in in the UAE secondary market you know and it's UAE secondary market you know and it's the second time they invited to his the second time they invited to his staff meeting on the Monday so really staff meeting on the Monday so really you see staff meeting I'm there talking you see staff meeting I'm there talking to the 15 agents and this time the topic to the 15 agents and this time the topic was AI you know and uh was very was AI you know and uh was very interesting so some basic stuff you know interesting so some basic stuff you know he was uh maybe partially to answer one he was uh maybe partially to answer one of the question of of no question about of the question of of no question about one of the point of har one of the point of har teaching them how to use chat GPT. You teaching them how to use chat GPT. You know that every agent that are still not know that every agent that are still not using it, but he's telling them, you using it, but he's telling them, you know, you do something wrong if you're know, you do something wrong if you're not using despite the fact that of not using despite the fact that of course he's developing a a specific AI course he's developing a a specific AI for his company, something more complex for his company, something more complex than just, you know, CH GPT, but he gave than just, you know, CH GPT, but he gave them basic stuff to ask Har what we do them basic stuff to ask Har what we do differently, some basic parameters, you differently, some basic parameters, you know, that you can do, you know, the know, that you can do, you know, the deeper syncing, the extended version and deeper syncing, the extended version and stuff like that. So there's some basic stuff like that. So there's some basic stuff which is quick but the quality of stuff which is quick but the quality of the answer the things is coming back is the answer the things is coming back is not the same if you use a different not the same if you use a different setup all the discussion know about setup all the discussion know about doing projects and things like that. So doing projects and things like that. So it was basically an AI training for for it was basically an AI training for for for for for uh for a real estate agent. But when we uh for a real estate agent. But when we left, he came in the car with me and he left, he came in the car with me and he asked the driver, you know, to drop him asked the driver, you know, to drop him at home and he said, "Philip in three in at home and he said, "Philip in three in three months, I might have my AI three months, I might have my AI solution. You know, I will have to fire solution. You know, I will have to fire people." And you know, that's the things people." And you know, that's the things which sincere I'm challenging. And I'm which sincere I'm challenging. And I'm not saying it's right, but sometimes you not saying it's right, but sometimes you we take to to recruit because I told him we take to to recruit because I told him you you want to fire some people because you you want to fire some people because they are actually doing what AI can do.

they are actually doing what AI can do. But before they had no time to do But before they had no time to do something that AI will not be able to something that AI will not be able to do, you know, and I think you know Har do, you know, and I think you know Har know me well. That's my topic always in know me well. That's my topic always in in in the medical in the healthcare in in the medical in the healthcare field. you know doctors are busy field. you know doctors are busy entering data and all that stuff you entering data and all that stuff you know and I'm the last one to say we know and I'm the last one to say we don't need this data we need more and don't need this data we need more and more data to do you know research and more data to do you know research and all the other stuff but do the doctor all the other stuff but do the doctor should not be the guy who has to enter should not be the guy who has to enter data the doctor should be the one that data the doctor should be the one that looks into the patient eyes and make the looks into the patient eyes and make the human touch and uh early in the early human touch and uh early in the early days you had this these things from days you had this these things from charge GBT you know that uh patients charge GBT you know that uh patients said the charge GBT was more empathetic said the charge GBT was more empathetic than doctors, you know, and the reality than doctors, you know, and the reality is it's wrong. It is that the doctors is it's wrong. It is that the doctors are not human anymore. The doctors are are not human anymore. The doctors are becoming robots, you know, and and becoming robots,

you know, and and that's the point. You compare robots to that's the point. You compare robots to robot, then you're going to lose.

robot, then you're going to lose. So, we have to win for the human field, So, we have to win for the human field, you know. So we have now to concentrate you know. So we have now to concentrate teach education which is also not the teach education which is also not the greatest industry to concentrate on greatest industry to concentrate on critical thinking emotional intelligence critical thinking emotional intelligence cultural intelligence and all that cultural intelligence and all that because we are on the way to losing because we are on the way to losing that.

that. that. >> Mhm. Amazingly true. Filipe I'm going to >> Mhm. Amazingly true. Filipe I'm going to give you concrete examples so that you give you concrete examples so that you guys understand completely. Uh in the guys understand completely. Uh in the last two months uh I fired 50% of my last two months uh I fired 50% of my company. Uh in the last weekend I company. Uh in the last weekend I actually created a whole claw code actually created a whole claw code plugin to automate this whole podcast plugin to automate this whole podcast including a browser agent. Streamyard including a browser agent. Streamyard doesn't have an API. How do we do it?

doesn't have an API. How do we do it? Stack Substack doesn't have an API. How Stack Substack doesn't have an API. How do we handle that everything? I mean and do we handle that everything? I mean and honestly at this point in time I'm just honestly at this point in time I'm just figuring out why to keep people and figuring out why to keep people and that's just wrong. I get your point but that's just wrong. I get your point but it's just becoming so much better in the it's just becoming so much better in the sense to person send personalized emails sense to person send personalized emails even. So that's number two fact. Number even. So that's number two fact. Number three fact is that um at some uh what three fact is that um at some uh what you suggested uh so firing people is you suggested uh so firing people is true uh startups are at its best. The true uh startups are at its best. The third thing that you said that people third thing that you said that people are still learning chat GPD that was two are still learning chat GPD that was two years ago. AI is not in a bubble. It's years ago. AI is not in a bubble. It's just that humans are in a bubble and and just that humans are in a bubble and and they will understand at some point in they will understand at some point in time that the human bubble is going to time that the human bubble is going to pop because of AI. And that's where pop because of AI. And that's where people don't understand. I don't like people don't understand. I don't like the word AI bubble. I like human bubble the word AI bubble. I like human bubble because we again I want to repeat what because we again I want to repeat what Sundra Bachai said recently on New York Sundra Bachai said recently on New York Times is that humans are not evolved to Times is that humans are not evolved to actually gather this much information so actually gather this much information so fast. As a matter of fact, um I mean fast. As a matter of fact, um I mean they're very trans, but there's a prayer they're very trans, but there's a prayer uh that I was taught as a as a young kid uh that I was taught as a as a young kid and it's called Rabi Zidni ilma. And the and it's called Rabi Zidni ilma. And the idea behind was oh Lord increase me idea behind was oh Lord increase me against the overpowering knowledge.

against the overpowering knowledge. So it wasn't say don't increase my So it wasn't say don't increase my knowledge, it was increase me in a way knowledge, it was increase me in a way that the overpowering of knowledge I can that the overpowering of knowledge I can adapt to it. And that is a prayer that I adapt to it. And that is a prayer that I was taught and I always used to was taught and I always used to understand what the hell does that mean understand what the hell does that mean and now I understand what that and now I understand what that [laughter] means. So uh and the last [laughter] means. So uh and the last point that you talked about um a AI and point that you talked about um a AI and uh quantum so I just want to give a uh quantum so I just want to give a little bit of background to the make it little bit of background to the make it easy. So the way AI works is that that easy. So the way AI works is that that it is all what we call probabilistic and it is all what we call probabilistic and as a matter of fact if you look at the as a matter of fact if you look at the engine it's called back propagation and engine it's called back propagation and then you make forward predictions and it then you make forward predictions and it is always probabilistic. It is never is always probabilistic. It is never deterministic. When the word deterministic. When the word deterministic is used, you mean zero and deterministic is used, you mean zero and one. The way the computers work, one. The way the computers work, non-quantum computers is actually quite non-quantum computers is actually quite deterministic. It's zeros and ones, deterministic. It's zeros and ones, which is never probabilistic.

which is never probabilistic. >> So what it does is that that that it, >> So what it does is that that that it, you know, the engine works. The minute you know, the engine works. The minute you put AI in a quantum computer, by the you put AI in a quantum computer, by the definition, quantum computer itself is definition, quantum computer itself is also a little probabilistic. It is not also a little probabilistic. It is not zero and one. It is everything between zero and one. It is everything between zero and one. Now when those two zero and one. Now when those two combine, you unleash uh as Harvey says combine, you unleash uh as Harvey says sometimes and me says an antichrist.

sometimes and me says an antichrist. [laughter] [laughter] [laughter] No offense because at that point in time No offense because at that point in time you will get to AGI. If you again uh you will get to AGI. If you again uh review uh Demis the founder of deep mind review uh Demis the founder of deep mind that was acquired by Google. He re uh u that was acquired by Google. He re uh u adjusted his uh prediction for AGI from adjusted his uh prediction for AGI from 2035 to 2030 or maybe sooner. And one of 2035 to 2030 or maybe sooner. And one of the reasons that he has actually the reasons that he has actually explained is the faster we are moving explained is the faster we are moving towards quantum computing. Uh because towards quantum computing. Uh because the layer between the quantum computing the layer between the quantum computing and the regular computing because the and the regular computing because the problem really is not the quantum problem really is not the quantum computing. It is working. Now the computing. It is working. Now the question is how do we push it into our question is how do we push it into our integration layer to regular computing integration layer to regular computing and show the results. That gap is and show the results. That gap is closing faster again because of AI. So closing faster again because of AI. So it it is an interesting flywheel cycle.

it it is an interesting flywheel cycle. And lastly again just want to reiterate And lastly again just want to reiterate that uh the flywe cycle is insane. It is that uh the flywe cycle is insane. It is going too much in that. So Filipe now going too much in that. So Filipe now now I understand that you have an now I understand that you have an amazing industry experience 30 years and amazing industry experience 30 years and now you are actually at conferences now you are actually at conferences meeting future leaders giving talks with meeting future leaders giving talks with Harvey and everything. I want to uh go Harvey and everything. I want to uh go back to your experience that how you back to your experience that how you have seen the healthcare side but how have seen the healthcare side but how the pharma side and the chemical side is the pharma side and the chemical side is changing in the age of AI given that you changing in the age of AI given that you have old contacts that are probably have old contacts that are probably talking to you because I don't get a lot talking to you because I don't get a lot of information on I I do follow pharma of information on I I do follow pharma but chemical is completely out and given but chemical is completely out and given that you know alpha protein fold given that you know alpha protein fold given that we actually have these new that we actually have these new biologics and everything coming what are biologics and everything coming what are your thoughts uh and when did that your thoughts uh and when did that flywheel going to go uh into effect?

flywheel going to go uh into effect? >> Yes. So, so of course a very very >> Yes. So, so of course a very very interesting question because again uh I interesting question because again uh I said I think the the key point behind said I think the the key point behind your question is also when is is the your question is also when is is the timing you know because I said most of timing you know because I said most of the things are accelerating but in some the things are accelerating but in some space you are still not accelerating you space you are still not accelerating you know we don't see it and I think we have know we don't see it and I think we have sometimes to understand probably also sometimes to understand probably also the the whole dynamic of of those the the whole dynamic of of those industry you you see I think two three industry you you see I think two three weeks ago I was in in Montenegro you weeks ago I was in in Montenegro you know and I'm also one of those guys know and I'm also one of those guys saying you know the sick care you know saying you know the sick care you know sick care system is not healthare you sick care system is not healthare you know the system is broken and all the know the system is broken and all the kind of things so kind of things so maybe if we stop really and think about maybe if we stop really and think about it in many places the healthare system it in many places the healthare system is not broken is working exactly as is not broken is working exactly as designed designed designed you see and then that's that's a big you see and then that's that's a big challenge you know because for some challenge you know because for some people it's okay they make money like it people it's okay they make money like it was designed mind you know and I'm not was designed mind you know and I'm not going to say because you know it can be going to say because you know it can be pharma it can be insurance can be even pharma it can be insurance can

be even hospitals and whatever you know so hospitals and whatever you know so actually that's what I'm saying maybe actually that's what I'm saying maybe it's right it's not healthcare seek care it's right it's not healthcare seek care but for the moment it's working as but for the moment it's working as designed and if as long as we don't go designed and if as long as we don't go in that direction you know that the in that direction you know that the design was done you know years ago for design was done you know years ago for another era for another knowledge and another era for another knowledge and whatever I think it's going to be whatever I think it's going to be difficult to change it you know and difficult to change it you know and that's for the moment I'm still that's for the moment I'm still advocating you know to basic ally build advocating you know to basic ally build something in parallel you know let's something in parallel you know let's talk about you know Harvey knows I'm talk about you know Harvey knows I'm also also also into you know the let's I don't like the into you know the let's I don't like the word any anyhow too you know the word any anyhow too you know the longevity because longevity was also longevity because longevity was also misused like you misuse AI but basically misused like you misuse AI but basically the next generation medicine the next generation medicine preventative care you know because we're preventative care you know because we're running into the wall we we know it you running into the wall we we know it you know we we have an aging population not know we we have an aging population not enough resources you even know even the enough resources you even know even the medical students in the US in the UK medical students in the US in the UK many countries 30% of the medical many countries 30% of the medical students are not going to start as students are not going to start as clinician you know and one of the key clinician you know and one of the key reasons so there are mainly two from reasons so there are mainly two from what I know one one is the the the what I know one one is the the the bureaucracy the paperwork that you bureaucracy the paperwork that you mentioned before because you know you mentioned before because you know you don't learn to be a doctor to fill data don't learn to be a doctor to fill data to fill forms and and data online you to fill forms and and data online you know and the second one is work life know and the second one is work life balance you know the younger generation balance you know the younger generation has another view of work life balance has another view of work life balance and I don't want to go there to say who and I don't want to go there to say who is wrong or right? Was it our is wrong or right? Was it our generation? Is it their generation? I generation? Is it their generation? I think even it doesn't help to have the think even it doesn't help to have the discussion. But the the point is we have discussion. But the the point is we have to do it differently. The market is to do it differently. The market is different. And again, there's no way different. And again, there's no way that we will have enough resources, you that we will have enough resources, you know, in the traditional framework, you know, in the traditional framework, you know, to have enough doctor, nurses, know, to have enough doctor, nurses, clinicians for an aging population that clinicians for an aging population that needs more treatment. So the only way is needs more treatment. So the only way is to go more to preventative care and to go more to preventative care and health. But the market is not has not health. But the market is not has not been built this framework was not built been built this framework was not built for that. So how do I change that you for that. So how do I change that you know and I still want to answer your know and I still want to answer your question you know because I think one of question you know because I think one of the key point is how is pharma going to the key point is how is pharma going to do interpreventative health because it's do interpreventative health because it's not their business. their business is to not their business. their business is to sell pills you know and and I'm bad now sell pills you know and and I'm bad now saying something you know but it's the saying something you know but it's the reality you know 40% of the drugs are reality you know 40% of the drugs are not working and it's not that they are not working and it's not that they are not working in general they may work on not working in general they may work on you and not on me you know but that is you and not on me you know but that is 40% of revenue 40% of revenue you know a doctor you know people like you know a doctor you know people like you doctors they have they have of you doctors they have they have of course another you know uh objective you course another you know uh objective you know you want to cure the people and all know you want to cure the people and all that you know but if you think money that you know but if you think money they make money with something that they make money with something that doesn't work. It could even have a doesn't work. It could even have a negative impact. It could even hurt negative impact. It could even hurt them. So, as I said, you're right. How them. So, as I said, you're right. How is pharma going to move there? And for is pharma going to move there? And for the moment, I said there is a lot of uh the moment, I said there is a lot of uh opportunities in pharma, but on the drug opportunities in pharma, but on the drug discovery side. So, you know, you have discovery side. So, you know, you have company like incilico medicine and company like incilico medicine and others, they have already, you know, others, they have already, you know, discovered some of the first drug with discovered some of the first drug with AI. So, for the moment they it's still AI. So, for the moment they it's still in their old model of pharma. they can in their old model of pharma. they can be quicker, have less waste,

but is but be quicker, have less waste, but is but is still not something about prevention.

is still not something about prevention. So, so I think you know on one side we So, so I think you know on one side we see we need to move into prevention so see we need to move into prevention so that people stay healthy longer you know that people stay healthy longer you know and when I talk in some longevity events and when I talk in some longevity events recently I I pinned a different quote recently I I pinned a different quote you know saying because somebody said we you know saying because somebody said we should move from seek care to seek care should move from seek care to seek care and I said we should move from seek care and I said we should move from seek care to seek health. I'm not seeking care.

to seek health. I'm not seeking care. You should seek health. You see, and You should seek health. You see, and that's something which is actually not that's something which is actually not in the uh in the gene. So I use it in the uh in the gene. So I use it because of longevity but in the gene of because of longevity but in the gene of the healthcare system. Health care the healthcare system. Health care system have not been built you know for system have not been built you know for for for for healthy people to keep people healthy.

healthy people to keep people healthy. Just take an example what is an an EM Just take an example what is an an EM what is an electronic medical record is what is an electronic medical record is seek care data. There's no healthcare seek care data. There's no healthcare data in it you know. So the whole things data in it you know. So the whole things is kind of kind of doubling the data you is kind of kind of doubling the data you need, the information you need and then need, the information you need and then come back even to the doctors to the come back even to the doctors to the knowledge you know I say all so often knowledge you know I say all so often you know and and sorry for for for the you know and and sorry for for for the doctors here in the room because I have doctors here in the room because I have a lot of respect of course for the work a lot of respect of course for the work and the what you do but the biggest and the what you do but the biggest challenge might maybe not be upskilling challenge might maybe not be upskilling which is already a challenge you know which is already a challenge you know because you're so busy you know where because you're so busy you know where you get time you know to get out when you get time you know to get out when you're overwhelmed and all that to you're overwhelmed and all that to because I'm lucky going to this because I'm lucky going to this conference is I meet the SEI doctors you conference is I meet the SEI doctors you know but they are doctors they are in know but they are doctors they are in their practice uh they don't have you their practice uh they don't have you know enough time to serve the people and know enough time to serve the people and all that and it's next next next like at all that and it's next next next like at the at at the border and at the the at at the border and at the immigration you know so uh one of the immigration you know so uh one of the point you say some most of the time it point you say some most of the time it might even be unlearning you know it's might even be unlearning you know it's basically that what you learned is basically that what you learned is actually wrong and I take something actually wrong and I take something maybe simple that people understand maybe simple that people understand easily They take a dentist because easily They take a dentist because recently I was also involved with quite recently I was also involved with quite some dentists. You know my generation some dentists. You know my generation when you went to the dentist and you had when you went to the dentist and you had the pain one of the first things they the pain one of the first things they did is root canal. Today they say you did is root canal. Today they say you should not do the root canal because should not do the root canal because you're killing all everything you know you're killing all everything you know basically you're creating more problem basically you're creating more problem than something else but that's what I than something else but that's what I learned 20 years ago. So there is stuff learned 20 years ago. So there is stuff like that that with medicine that is like that that with medicine that is going to come you know that what you going to come you know that what you learn at school is even wrong is doing learn at school is even wrong is doing more damage than something else and more damage than something else and that's another point which I think is that's another point which I think is important because of the technology AI important because of the technology AI and some others we might learn more in and some others we might learn more in the next 10 years than the last 100 the next 10 years than the last 100 years. So how are we prepared to that to years. So how are we prepared to that to that speed and that I'm saying pharma is that speed and that I'm saying pharma is one example but again it's it's doctors one example but again it's it's doctors is is many other fields as well you know is is many other fields as well you know because take an example whole genome because take an example whole genome sequencing you know har knows the sequencing you know har knows the numbers about you know how the prices numbers about you know how the prices went down and all that amazing you know went down and all

that amazing you know but for the moment we might know 10 or but for the moment we might know 10 or 15% 15% 15% of the interpretation of those genes so of the interpretation of those genes so that they so much you still going to that they so much you still going to discover with are going to change discover with are going to change completely what we have learned you know completely what we have learned you know and that's why I'm saying where the and that's why I'm saying where the potential you know to to learn a lot potential you know to to learn a lot about uh what what is coming so I said about uh what what is coming so I said from a scientific point of view research from a scientific point of view research and everything and that's why it's also and everything and that's why it's also including pharma you you know there will including pharma you you know there will be huge huge changes but the thing is be huge huge changes but the thing is some as I said at the beginning uh some some as I said at the beginning uh some partner in the ecosystem still make a partner in the ecosystem still make a lot of money with the existing way. So lot of money with the existing way. So take the example back when I said about take the example back when I said about the 40% of drug work. If I find an the 40% of drug work. If I find an opportunity for pharma to make more opportunity for pharma to make more money in prevention, money in prevention, they will agree to do to get that money they will agree to do to get that money on top of the other one not instead of on top of the other one not instead of the other one. So I think that's a the other one. So I think that's a challenge you know that this whole chain challenge you know that this whole chain management to say okay I can make more management to say okay I can make more money it's more safe brings more to the money it's more safe brings more to the patient but I still have the other one.

patient but I still have the other one. You're absolutely true. the biggest You're absolutely true. the biggest blockers like currently the data silos blockers like currently the data silos exist because of the EHRs exist because of the EHRs uh and then one of the issues that uh and then one of the issues that they're trying to pull is uh protecting they're trying to pull is uh protecting their uh way of life essentially at the their uh way of life essentially at the end of the day and we're going to see end of the day and we're going to see that that disruption is going to bring that that disruption is going to bring in and unfortunately as we have seen in and unfortunately as we have seen disruptions in other industries uh disruptions in other industries uh startups like me basically gets acquired startups like me basically gets acquired and that's how the quote unquote uh the and that's how the quote unquote uh the current hedgeimons will continue to current hedgeimons will continue to [laughter] make more by acquisitions of [laughter] make more by acquisitions of different startups which again is a different startups which again is a startup dream as well. So it is a sort startup dream as well. So it is a sort of the way of the world and I understand of the way of the world and I understand completely where you're coming from uh completely where you're coming from uh that uh one of the biggest blockers in that uh one of the biggest blockers in timeline is not just about making the timeline is not just about making the technology faster. It is basically an technology faster. It is basically an adoption uh curve which is a human adoption uh curve which is a human problem as we talked about the human problem as we talked about the human bubble but more importantly what you're bubble but more importantly what you're saying is that it is also a conservative saying is that it is also a conservative protectionist problem with the current protectionist problem with the current uh big players in the market and now you uh big players in the market and now you brought up in a very interesting point brought up in a very interesting point when we were talking about this and that when we were talking about this and that there's a clear distinction between what there's a clear distinction between what I call health tech uh and medtech I call health tech uh and medtech medtech I believe is just as medtech I believe is just as conceptually I make it there's nothing conceptually I make it there's nothing like a definition or anything when we like a definition or anything when we talk about medtech it's all about like talk about medtech it's all about like pharma medicine clinical etc but health pharma medicine clinical etc but health tech encompasses both uh the medtech and tech encompasses both uh the medtech and the wellness tech so Ed uh the question the wellness tech so Ed uh the question for you and we have seen this now uh for for you and we have seen this now uh for the first time which is uh interesting the first time which is uh interesting as well we used to use woop and by the as well we used to use woop and by the way Harvey can you show you have a ring way Harvey can you show you have a ring and you have like six different wellness and you have like six different wellness trackers and everything [laughter] so trackers and everything [laughter] so uh uh uh >> we on board I have ultra human I have >> we on board I have ultra human I have the ura I I don't have Whoop, I have the ura I I don't have Whoop, I have polar. But I'm actually testing this polar. But I'm actually testing this this stuff to basically compare them and this stuff to basically compare them and and see the uh there are some some and see the uh there are some some values which are different and which you values which are different and which you know additional things you know know additional things you know >> I have a sevenyear-old and a 10year-old >> I have a sevenyear-old and a 10year-old that takes me to the park you know that takes me to the park you know [laughter]

>> so um >> so um >> and I'm not going to I'm not going to >> and I'm not going to I'm not going to argue how important that is argue how important that is >> you know I'm saying it's still one of >> you know I'm saying it's still one of the things we are losing you know and the things we are losing you know and then the link to the nature maybe even then the link to the nature maybe even walking bare food and all that. So, walking bare food and all that. So, well, I'm not going to argue. You're well, I'm not going to argue. You're still good in what you're doing.

still good in what you're doing. [laughter] [laughter] [laughter] So Ed, make me a connection between So Ed, make me a connection between wellness stack and medtech and what wellness stack and medtech and what Philip is also saying that how that Philip is also saying that how that connection is important from going from connection is important from going from sick care sick care >> to health care and then finally the >> to health care and then finally the largest hardest question to you as usual largest hardest question to you as usual I'm not going to make easy for you is I'm not going to make easy for you is that how will it impact the revenue that how will it impact the revenue cycle the pricing models and how you cycle the pricing models and how you know the insurance companies are going know the insurance companies are going to adjust to it. Maybe memberships, you to adjust to it. Maybe memberships, you know, they're already giving gym know, they're already giving gym memberships. They're going to give you a memberships. They're going to give you a Whoop or a Google Fit uh etc., etc.

Whoop or a Google Fit uh etc., etc. Like, paint me a picture between Like, paint me a picture between wellness tech and medtech combining wellness tech and medtech combining uh or what do you think is going to uh or what do you think is going to happen? Because this is so freaking happen? Because this is so freaking confusing, including confusing, including what I'm saying is the revenue cycle of what I'm saying is the revenue cycle of all of that.

all of that. >> Yeah. Well, I I think it's funny, you >> Yeah. Well, I I think it's funny, you know, as Isla, the dog, you know, she know, as Isla, the dog, you know, she jumps up on the lap and you naturally uh jumps up on the lap and you naturally uh like almost genetically like like almost genetically like predisposition to pet her, which we know predisposition to pet her, which we know helps relax not only the dog, but the helps relax not only the dog, but the but the owner.

but the owner. And that that's all sorts of stuff that And that that's all sorts of stuff that I don't think AI is gonna be able to I don't think AI is gonna be able to displace. It's just part of part of the displace. It's just part of part of the humanism um aspect of of it all. And you humanism um aspect of of it all. And you going out to the yard to play with your going out to the yard to play with your kids. uh there'll be attempts to kids. uh there'll be attempts to replicate all that with artificial means replicate all that with artificial means but I don't think it'll ever have the but I don't think it'll ever have the same sole impact and Jade I will answer same sole impact and Jade I will answer your question but it reminded me also of your question but it reminded me also of a of another scripture which is similar a of another scripture which is similar to the one that you grew up on and that to the one that you grew up on and that is uh you can't pour new wine into old is uh you can't pour new wine into old wine skins right and that's one of the wine skins right and that's one of the reasons we have sign and symptoms is to reasons we have sign and symptoms is to help us learn so we're getting the new help us learn so we're getting the new wine in this case AI and the wine skins wine in this case AI and the wine skins are us right And so if if you pour new are us right And so if if you pour new wine into old wine skins, the wine goes wine into old wine skins, the wine goes bad and the wine skins they deteriorate.

bad and the wine skins they deteriorate. They break. They're not able to receive. They break. They're not able to receive. And so it's really important that all of And so it's really important that all of us and our listeners, you know, we us and our listeners, you know, we always work on ourselves, which we all always work on ourselves, which we all do obviously, you know, showing off our, do obviously, you know, showing off our, you know, our rings and all that sort of you know, our rings and all that sort of thing. Uh we're we're trying to keep thing. Uh we're we're trying to keep pace and be learned. Uh and at the same pace and be learned. Uh and at the same time, you know, temper it with the time, you know, temper it with the balance of of the human soul. uh but balance of of the human soul. uh but always thought I I've always lived by always thought I I've always lived by that scripture but it's come uh to be that scripture but it's come uh to be more meaningful right in the age of AI.

more meaningful right in the age of AI. So yeah, how how do you make it all So yeah, how how do you make it all

work? And it goes back and Philipe, you work? And it goes back and Philipe, you know, covered it pretty well, I think.

know, covered it pretty well, I think. And that is uh the alignment of And that is uh the alignment of incentives. You know, we just uh came incentives. You know, we just uh came out with this book and believe me, this out with this book and believe me, this is not a ploy for the book, but it came is not a ploy for the book, but it came out last week. It came out last weekend out last week. It came out last weekend in uh last week in Copenhagen. This is in uh last week in Copenhagen. This is Voices of Innovation Europe. And we were Voices of Innovation Europe. And we were trying to uncover that, right? I think trying to uncover that, right? I think we had 25 out of 43 European countries we had 25 out of 43 European countries respond and they're part of the book.

respond and they're part of the book. And we're trying to uncover has anyone And we're trying to uncover has anyone broken the code, you know, to to make it broken the code, you know, to to make it work. And I think by and large there's a work. And I think by and large there's a couple exceptions of very small couple exceptions of very small countries that are able to pull it off countries that are able to pull it off because of their size and and having because of their size and and having sort of a socialist framework for sort of a socialist framework for medicine. Uh that it's hard to pull off medicine. Uh that it's hard to pull off because there's just not the alignment because there's just not the alignment of the incentives. And we talked about of the incentives. And we talked about that. It's better to do sick care. You that. It's better to do sick care. You make more money. uh you know a health make more money. uh you know a health system by itself like if we stick sort system by itself like if we stick sort of to the west um a health system by of to the west um a health system by itself can't make this happen because itself can't make this happen because they would go out of business because they would go out of business because not everyone else is playing in the same not everyone else is playing in the same way and so despite all the rhetoric that way and so despite all the rhetoric that we all give and it's very well-meaning I we all give and it's very well-meaning I don't think anyone's being disingenuous don't think anyone's being disingenuous but at the same time they have to but at the same time they have to balance you know margin and mission uh balance you know margin and mission uh to make these sort of h things happen so to make these sort of h things happen so so I I think the best thing that can so I I think the best thing that can happen is when it's smaller other happen is when it's smaller other countries, you know, that prove this countries, you know, that prove this out, uh, where they have maybe a single out, uh, where they have maybe a single system for wellness and can align the system for wellness and can align the incentives. I I think that is where incentives. I I think that is where we're seeing some progress and then, you we're seeing some progress and then, you know, then it might be in more regional know, then it might be in more regional areas. You know, we attempted it in the areas. You know, we attempted it in the we attempted it with blue zones and I we attempted it with blue zones and I don't want to take the time to go into don't want to take the time to go into blue zones. People can Google that. Uh blue zones. People can Google that. Uh but there are examples around the world but there are examples around the world um where communities have gotten um where communities have gotten together sort of to align incentives and together sort of to align incentives and and interestingly and interestingly uh the the hospitals are not a big part uh the the hospitals are not a big part of it of it >> because as we know it's all about you >> because as we know it's all about you know your environment your social know your environment your social network your belief systems your your network your belief systems your your nutrition nutrition nutrition um so I almost think what I'm saying is um so I almost think what I'm saying is I I think it has to prove itself self in I I think it has to prove itself self in small cases, which it has with blue small cases, which it has with blue zones as a perfect example, but in zones as a perfect example, but in smaller countries, and then kind of smaller countries, and then kind of building out that evidence and then at building out that evidence and then at some point we are going to need bold some point we are going to need bold leaders who are willing to take a leaders who are willing to take a stance, you know, much like I just think stance, you know, much like I just think of Kennedy, you know, about, you know, of Kennedy, you know, about, you know, landing men on the moon or Martin Luther landing men on the moon or Martin Luther King Jr. about, you know, freedom for King Jr. about, you know, freedom for everyone. We need a bold leader, I everyone. We need a bold leader, I think, that's going to get out there and think, that's going to get out there and say, "We're going to do it this way and say, "We're going to do it this way and make it happen." And it'll be painful.

make it happen." And it'll be painful. None of these things that I just cited None of these things that I just cited as examples were easy to do, but they as examples were easy to do, but they were done. And we just need that bold were done. And we just need that bold visionary leadership and someone to say, visionary leadership and

someone to say, "This is what we're doing. We're going "This is what we're doing. We're going to make it happen." And, you know, it's to make it happen." And, you know, it's not going to be perfect. Uh, but I think not going to be perfect. Uh, but I think that's what it's going to take because that's what it's going to take because it's not nothing's going to change it's not nothing's going to change unless someone takes bold stance.

unless someone takes bold stance. >> Yeah. and and and again it's it's it's a >> Yeah. and and and again it's it's it's a lot about uh we still working in silos lot about uh we still working in silos and I'm not talking just medicine you and I'm not talking just medicine you know we have the specialist and all that know we have the specialist and all that and the coordination is but the whole uh and the coordination is but the whole uh ecosystem is is is like that you know ecosystem is is is like that you know and and every one and and again a lot of and and every one and and again a lot of them make money so why should they they them make money so why should they they changed it you know so I give you other changed it you know so I give you other concrete example you know I'm also I concrete example you know I'm also I like a storyteller but you you know like a storyteller but you you know stories that I have seen myself so one stories that I have seen myself so one month ago I was invited ed to a to a big month ago I was invited ed to a to a big hospital in Dubai because you know one hospital in Dubai because you know one of my friend became a innovation manager of my friend became a innovation manager there and you know while coming she there and you know while coming she wanted to show me you know hyperbaratic wanted to show me you know hyperbaratic chamber you know things like that which chamber you know things like that which of course are probably still more more of course are probably still more more used for for real uh medical solutions used for for real uh medical solutions and all that and just for longevity and all that and just for longevity topics but she was surprised when she topics but she was surprised when she joined the company that they had the joined the company that they had the hyperbariatic chamber but I had a coffee hyperbariatic chamber but I had a coffee with with her and and uh with with her and and uh hospital manager you know and we came to hospital manager you know and we came to the topic about AI for radiology you the topic about AI for radiology you know AI for radiology there are know AI for radiology there are solutions out there since years but in solutions out there since years but in the reality if you go into the ground the reality if you go into the ground you don't still don't find it in every you don't still don't find it in every hospital and things like that so this hospital and things like that so this manager you know which is not a doctor manager you know which is not a doctor but the hospital manager having his but the hospital manager having his incentive he said Philillip I will have incentive he said Philillip I will have to invest in AI for health care but I to invest in AI for health care but I still have my radiologist and my nurses still have my radiologist and my nurses so it's a simple economic so it's a simple economic stuff. You know, for him there is no stuff. You know, for him there is no added value. It's just an additional added value. It's just an additional cost because the real added value might cost because the real added value might be better diagnosis and all that, but on be better diagnosis and all that, but on a quick win is not it's not a number for a quick win is not it's not a number for him. So as long and that's I'm saying we him. So as long and that's I'm saying we need also to to get the whole ecosystem need also to to get the whole ecosystem involved and talking together you know involved and talking together you know uh recently I was in that other event uh recently I was in that other event where there was this topic you know do where there was this topic you know do we still need radiology and you know we still need radiology and you know there are some top guys in the US saying there are some top guys in the US saying we should not teach radiology anymore in we should not teach radiology anymore in the medical school and I'm a believer of the medical school and I'm a believer of that as well I have glasses my eyes are that as well I have glasses my eyes are not good AI is much better you know in not good AI is much better you know in recognizing this stuff and recently I recognizing this stuff and recently I had discussion with with the radiologist had discussion with with the radiologist ologist you know said yeah but look if a ologist you know said yeah but look if a surgeon send a patient to the surgeon send a patient to the radiologist say look for a I don't know radiologist say look for a I don't know lung cancer lung cancer so the AI is going to look at a lung so the AI is going to look at a lung cancer but the radiologist radiologist cancer but the radiologist radiologist will look at the bigger picture and will look at the bigger picture and might see something else and I said might see something else and I said sorry to say the word that is sorry to say the word that is if I tell AI to look at everything AI if I tell AI to look at everything AI will look at more and find more things will look at more and find more things but we are still entertaining this nasty but we are still entertaining this nasty competition between AI and doctors you competition between AI and doctors you know so I'm make a shortcut and I may be know so I'm make a shortcut and I may be harsh with that but I say maybe I don't harsh with that but I say maybe I don't need the radiologist and keep AI but the need the radiologist and keep AI but the nurse I still need because who is going nurse I still need because who is going to prepare the patient who is going to to prepare the patient who is going to do all that and that's what I'm saying do all that and that's

what I'm saying you know we we have to review the you know we we have to review the existing system but you cannot do that existing system but you cannot do that if you don't involve the player if you if you don't involve the player if you just say to somebody I don't need you just say to somebody I don't need you know we we build a wall we don't you know we we build a wall we don't you know, a real openness and and and know, a real openness and and and solutions.

>> J, what do you that statement? What do >> J, what do you that statement? What do you think? you think? >> Should we replace radiology and forget >> Should we replace radiology and forget about radiologists and like he just about radiologists and like he just said, I really want to know what you said, I really want to know what you think of that one.

think of that one. >> So, um, so number one again as as he >> So, um, so number one again as as he suggested very beautifully actually is suggested very beautifully actually is differentiating between task and a job.

differentiating between task and a job. the task of radiologists identifying a the task of radiologists identifying a cancer, you know, identifying a lesion, cancer, you know, identifying a lesion, differentiating, you know, sizing of one differentiating, you know, sizing of one cancer to another cancer. All of these cancer to another cancer. All of these tasks of radiologists will be will be tasks of radiologists will be will be gone because of AI. But the job of the gone because of AI. But the job of the radiologist is not going to go away. And radiologist is not going to go away. And not to mention, we actually need 190,000 not to mention, we actually need 190,000 more radiologists to just cover the more radiologists to just cover the current position. So clearly we need uh current position. So clearly we need uh you know to upscale our current you know to upscale our current radiologists to do the job they were radiologists to do the job they were intended to do and optimize their task intended to do and optimize their task as much as we do with AI. So we are as much as we do with AI. So we are definitely not going to need too many definitely not going to need too many radiologists but again we also need new radiologists but again we also need new uh interventional radiologists for pain uh interventional radiologists for pain treatment. these wellness things. We're treatment. these wellness things. We're getting new treatments with stem cell getting new treatments with stem cell injections and you know biologics and injections and you know biologics and you know these wellness therapies that you know these wellness therapies that Ed keeps talking about to actually be Ed keeps talking about to actually be you know more sophisticated and employed you know more sophisticated and employed just from the wellness part to bring just from the wellness part to bring into medical and health part and that into medical and health part and that combination and that jobs are going to combination and that jobs are going to evolve as well. So we're not going to evolve as well. So we're not going to replace radiologists with the current replace radiologists with the current demand actually but what we are going to demand actually but what we are going to do in future is replace a lot of 80 to do in future is replace a lot of 80 to 90% of their task and very quickly 90% of their task and very quickly actually within a year or two are we but actually within a year or two are we but uh the more the job replacement is going uh the more the job replacement is going to be harder uh in terms of task to be harder uh in terms of task replacement I think it's very important replacement I think it's very important that people understand that uh unless that people understand that uh unless you know of course uh three years down you know of course uh three years down the line we have significant update and the line we have significant update and I don't know how the AI is going to move I don't know how the AI is going to move forward but I built an AI uh it's going forward but I built an AI uh it's going to by the way release chest X-ray. We to by the way release chest X-ray. We used we did one we actually filed for used we did one we actually filed for FDA now we're thinking should we pull FDA now we're thinking should we pull the application because it was doing the application because it was doing like four you know pathologies and now like four you know pathologies and now we already built one that actually does we already built one that actually does 22 pathologies and writes a draft now 22 pathologies and writes a draft now FDA is behind so that I can push it to FDA is behind so that I can push it to FDA. So it's just kind of like an odd FDA. So it's just kind of like an odd situation by the way Harvey. But long situation by the way Harvey. But long story short I I think uh we need to story short I I think uh we need to differentiate between job and task and I differentiate between job and task and I think tasks are going away. jobs may think tasks are going away. jobs may persist depending again how fast uh persist depending again how fast uh things go forward and uh moving forward things go forward and uh moving forward which brings my question back to you which brings my question back to you Harvey uh you're you're looking at you Harvey uh you're you're looking at you know deploying uh data centers in space know deploying uh data centers in space uh which are going to basically is uh which are going to basically is amazing because some of the things amazing because some of the things people don't understand how

intelligence people don't understand how intelligence works intelligence in AI works is works intelligence in AI works is basically how did you basically make an basically how did you basically make an intelligent model what they have done is intelligent model what they have done is that that they actually do increase the that that they actually do increase the parameters and what that means is that parameters and what that means is that that they do a lot of recursive thinking that they do a lot of recursive thinking recursive thinking on the back end while recursive thinking on the back end while they're modeling the the actual model they're modeling the the actual model itself. So you know it's still you know itself. So you know it's still you know a word filler but the difference is that a word filler but the difference is that that the intelligence has gone so much that the intelligence has gone so much that it can recursively go do this and that it can recursively go do this and that's very important in building and that's very important in building and training new models with a new training new models with a new consistent flow of data. And that's why consistent flow of data. And that's why you're going to you're seeing the you're going to you're seeing the flywheel going faster and faster, right?

flywheel going faster and faster, right? It's flash 2.5 to flash 3.1 to flash 3.5 It's flash 2.5 to flash 3.1 to flash 3.5 from Google. Same thing with Opus and from Google. Same thing with Opus and Sonet. Why the flywheel is going faster Sonet. Why the flywheel is going faster and faster is because their training uh and faster is because their training uh data set is becoming more robust and data set is becoming more robust and they're basically have a pipeline for they're basically have a pipeline for improving things. Uh which Harvey, what improving things. Uh which Harvey, what do you think? I mean are we going to be do you think? I mean are we going to be able to just not replace task but maybe able to just not replace task but maybe jobs because uh you know you're going to jobs because uh you know you're going to launch a data center in space and then launch a data center in space and then do this recursive highle thinking and do this recursive highle thinking and bringing more models faster even faster bringing more models faster even faster than today.

than today. >> Yeah I want to talk about two things. Uh >> Yeah I want to talk about two things. Uh I'm looking at the comments and talk and I'm looking at the comments and talk and people are saying, "Hey, I don't see a people are saying, "Hey, I don't see a uh radiologist being um replaced just uh radiologist being um replaced just because big picture there's more than because big picture there's more than just reading films." And I agree with just reading films." And I agree with that. As far as data centers and data, that. As far as data centers and data, it's going to change it. I I always say it's going to change it. I I always say this guys, it's it's the great shift this guys, it's it's the great shift that's happening. Today, you and I work that's happening. Today, you and I work a certain way, but before AI, we were uh a certain way, but before AI, we were uh the way we were trained is not how we the way we were trained is not how we practice medicine. The way we started practice medicine. The way we started any institution that you work for isn't any institution that you work for isn't the way you continue to work. We all the way you continue to work. We all pivot. We all remodel. We all change.

pivot. We all remodel. We all change. The only difference is the rate of The only difference is the rate of change now is quicker. It's faster. change now is quicker. It's faster.

We're adopting. So with that said, we We're adopting. So with that said, we have to change the tools. And so to your have to change the tools. And so to your point now to data centers, the fact that point now to data centers, the fact that the data centers will be quote unquote the data centers will be quote unquote literally in space in the cloud and literally in space in the cloud and those uh AI is gathering other types of those uh AI is gathering other types of data from space and processing and data from space and processing and allowing us to leverage give you a quick allowing us to leverage give you a quick example. If the data is collected in example. If the data is collected in space on the weather, our accuracy space on the weather, our accuracy combined with AI will give us better combined with AI will give us better models than we have today. uh and Google models than we have today. uh and Google has actually showed that already. So my has actually showed that already. So my point is this, we need to stay humble.

point is this, we need to stay humble. We need to learn how to shift, We need to learn how to shift, understand this technology and keep understand this technology and keep coming to podcasts like this so that we coming to podcasts like this so that we can see things coming and obviously can see things coming and obviously having guests like today uh of the having guests like today uh of the future. And and I'm going to encourage future. And and I'm going to encourage people, we got like 14 minutes to ask people, we got like 14 minutes to ask any

questions in the comments because um any questions in the comments because um it's kind of rare that we have him on.

it's kind of rare that we have him on. So we appreciate it. So we appreciate it. >> Can I can I add something? Uh so so >> Can I can I add something? Uh so so first of all I I I like to your answer first of all I I I like to your answer July right you know I think and to July right you know I think and to challenge what I said about I don't need challenge what I said about I don't need radiologist anymore I don't need the radiologist anymore I don't need the radiologist of today which are radiologist of today which are overwhelmed which are even not doing overwhelmed which are even not doing their job which put the two lines remark their job which put the two lines remark so I agree it's about evol evolving the so I agree it's about evol evolving the job and I think you're completely right job and I think you're completely right you know they might do something you know they might do something different even more added value so again different even more added value so again I should correct what I say I don't need I should correct what I say I don't need the radiologist of today which are the radiologist of today which are already overwhelmed and as you said we already overwhelmed and as you said we don't have enough so AI can help in the don't have enough so AI can help in the basic task of them and they should do basic task of them and they should do something else something else being also something else something else being also what you said what's about this whole what you said what's about this whole wellness preventative care and all that wellness preventative care and all that where radiologist has a role as well you where radiologist has a role as well you know so I agree it's about that shift know so I agree it's about that shift and again the shift is coming I think and again the shift is coming I think the key challenge the shift is coming the key challenge the shift is coming quicker you know that before because quicker you know that before because again a radiologist today is also doing again a radiologist today is also doing something different than 20 years ago something different than 20 years ago you know because the technology involved you know because the technology involved she did it so I think it's the same so I she did it so I think it's the same so I agree I'm maybe my my comment was wrong agree I'm maybe my my comment was wrong I don't need the radiologist of today I I don't need the radiologist of today I need another uh radiologist other skills need another uh radiologist other skills where is much more added value to the where is much more added value to the space on har I know we had a lot of space on har I know we had a lot of discussion I think is even something discussion I think is even something different we are not thinking enough out different we are not thinking enough out of the box at something completely of the box at something completely different. What what are actually the different. What what are actually the the biggest challenge in AI is the biggest challenge in AI is infrastructure, energy and the chips and infrastructure, energy and the chips and we still look how I can get more of the we still look how I can get more of the same rather than maybe looking at same rather than maybe looking at something completely different and the something completely different and the space is something completely different.

space is something completely different. I recently read something it's still not I recently read something it's still not sure that it works you know but sure that it works you know but something about uh you know in Finland something about uh you know in Finland they already since quite some time ago they already since quite some time ago they they were storing uh power uh with they they were storing uh power uh with sand now they look if they could sand now they look if they could generate power with sand and I'm just generate power with sand and I'm just trying to say if you can do that rather trying to say if you can do that rather than lithium or something else and than lithium or something else and that's I'm saying you know we just look that's I'm saying you know we just look to find where can I find more lithium to find where can I find more lithium rather than look at something different rather than look at something different and that's why I'm I'm I'm a big fan of and that's why I'm I'm I'm a big fan of RA, you know, of course, because you RA, you know, of course, because you know, you think space people think know, you think space people think you're crazy, you know, but there's you're crazy, you know, but there's another we may find something else, another we may find something else, something different that could solve the something different that could solve the actual one of the actual biggest actual one of the actual biggest problem.

>> You're so right. I mean, uh, it is >> You're so right. I mean, uh, it is getting harder to pick up. And that's getting harder to pick up. And that's just one last thing uh before I sign off just one last thing uh before I sign off is just um I mean, it's insane. I mean is just um I mean, it's insane. I mean just to give you guys an idea so that just to give you guys an idea so that you understand what's going on is that you understand what's going on is that like these are like I developed a whole like these are like I developed a whole complete AI segmentation AI video by the complete AI segmentation AI video by the way Harvey you're going to love this you way Harvey you're going to love this you

know Chrome extension PPC manager etc.

know Chrome extension PPC manager etc. And then I mean these are now coded like And then I mean these are now coded like I mean literally I am you know while I mean literally I am you know while we're talking here it's asking me we're talking here it's asking me questions about how I'm going to update questions about how I'm going to update my website. Uh and then just to let you my website. Uh and then just to let you know that within this Chrome extension know that within this Chrome extension uh we are at Chrome uh sorry cloud code uh we are at Chrome uh sorry cloud code so I'm not even like just using one so I'm not even like just using one cloud code per se sessions these are cloud code per se sessions these are three sessions that are going on you three sessions that are going on you know content generation AI referring know content generation AI referring physicians etc. And look at this they physicians etc. And look at this they have codex [snorts] which is you know have codex [snorts] which is you know this anti-gravity and then I have coder this anti-gravity and then I have coder which runs deepseek and miniax because I which runs deepseek and miniax because I have to be very careful where I send the have to be very careful where I send the data which doesn't matter all the data data which doesn't matter all the data is never sent but do you see this so is never sent but do you see this so within one cloud code session which is within one cloud code session which is one two three four and five I have five one two three four and five I have five sub aents working sub aents working not to mention of course I have these not to mention of course I have these are five employees different and then of are five employees different and then of course I have one session, two session, course I have one session, two session, three session. So at one point in time, three session. So at one point in time, look at this, right? It is I have 15 look at this, right? It is I have 15 employees.

employees. employees. Harvey and Ed, do are you [laughter] Harvey and Ed, do are you [laughter] like do do you understand what I'm like do do you understand what I'm trying to say? It it is it is first time trying to say? It it is it is first time in my life and I am like an super in my life and I am like an super learner as learner as that's my superpower personally. I mean that's my superpower personally. I mean I'm a neurointensivist, a stroke, I'm a neurointensivist, a stroke, epilepsy specialist, CEO and CTO of a epilepsy specialist, CEO and CTO of a you know AI company running signals and you know AI company running signals and symptoms everything but this is the symptoms everything but this is the first time in my life I've over gotten first time in my life I've over gotten overwhelmed and uh it scares the overwhelmed and uh it scares the out of me and when people don't keep out of me and when people don't keep talking about AI bubble they're not talking about AI bubble they're not using AI as I'm using it as I'm telling using AI as I'm using it as I'm telling you that I have 15 employee AI employees you that I have 15 employee AI employees at the moment while I'm doing this at the moment while I'm doing this asking me questions and figuring things asking me questions and figuring things out.

out. out. So So So anyways uh what have your anyways uh what have your >> and and it will even go one step further >> and and it will even go one step further because for the moment you have AI because for the moment you have AI agents working for you but you will have agents working for you but you will have AI agents managing the AI agents as AI agents managing the AI agents as well. That's and that's exactly well. That's and that's exactly happening. So cloud code which is our happening. So cloud code which is our super agent manages all these sub aents super agent manages all these sub aents gets information puts it in everything gets information puts it in everything and I've done this beautiful planning and I've done this beautiful planning system uh and code plugin system. I just system uh and code plugin system. I just write the feature list. I just write the write the feature list. I just write the strategy document and it takes from all strategy document and it takes from all my code develops an implementation spec my code develops an implementation spec strategy and develops a whole module. My strategy and develops a whole module. My five different developers are unable to five different developers are unable to keep up with the with the phase because keep up with the with the phase because I had to develop sit there. It took me I had to develop sit there. It took me two months don't get me wrong to develop two months don't get me wrong to develop a system but then uh through propagating a system but then uh through propagating it. So that's my last question of the it. So that's my last question of the day and to the audiences as well. I day and to the audiences as well. I understand that people again reminder it understand that people again reminder it is not the AI bubble this is a human is not the AI bubble this is a human bubble I'm telling you that I had to bubble I'm telling you that I had to fire people who are not able to c catch fire people who are not able to c catch up and honestly are humans truly able to up and honestly are humans truly able to catch up or not uh and then what are catch up or not uh and then what are your thoughts is it getting overwhelming your thoughts is it getting overwhelming is it getting too scary um uh I'm going is it getting too scary um uh I'm going to start with uh um Filipe

and then Ed to start with uh um Filipe and then Ed and then we'll close with Harvey today and then we'll close with Harvey today >> I I I think for me yes and No, because >> I I I think for me yes and No, because personally I enjoy it. I love it. I have personally I enjoy it. I love it. I have more fun. You know, officially I'm on more fun. You know, officially I'm on early retirement. I never worked as much early retirement. I never worked as much as now. I I do what I love to do. You as now. I I do what I love to do. You know, I there's I I have fun in in in in know, I there's I I have fun in in in in what I'm doing, but I can tell you what I'm doing, but I can tell you recently I was in Davos and one of my recently I was in Davos and one of my best friend and I'm not going to put the best friend and I'm not going to put the name here, you not not putting me in name here, you not not putting me in trouble, but when we left Davos in the trouble, but when we left Davos in the train, he he was demolished. He was down train, he he was demolished. He was down because he talked to some of these, you because he talked to some of these, you know, the the the the AGI guys and all know, the the the the AGI guys and all that, you know, saying that, you know, that, you know, saying that, you know, uh we are going to be taken over and all uh we are going to be taken over and all that. And he's very religious. He's a that. And he's very religious. He's a believer, has faith and and all that. He believer, has faith and and all that. He was destroyed and I was laughing. I was destroyed and I was laughing. I don't care, you know. I'm happy if I don't care, you know. I'm happy if I have less work, I do something else that have less work, I do something else that I'm saying. I'm on early retirement and I'm saying. I'm on early retirement and I never worked as much as now, but I'm I never worked as much as now, but I'm doing what I love to do. you can go with doing what I love to do. you can go with your kids to the park and all that stuff your kids to the park and all that stuff that I'm saying if it's done well we can that I'm saying if it's done well we can become better human because not become better human because not everybody is doing is is loving 100% of everybody is doing is is loving 100% of the jobs they're doing every day it's the jobs they're doing every day it's for it's a pain we do it to make money for it's a pain we do it to make money and all that kind of things so you know and all that kind of things so you know if we can choose what you can do I still if we can choose what you can do I still think as a human there's a lot of things think as a human there's a lot of things we can do so that's I'm saying I'm a we can do so that's I'm saying I'm a humanist I meet people in person I humanist I meet people in person I probably met half half of the people in probably met half half of the people in my LinkedIn network are people I met in my LinkedIn network are people I met in person and that's what I'm proud of. I'm person and that's what I'm proud of. I'm refusing some jobs you know if I cannot refusing some jobs you know if I cannot be onsite and meeting the people and be onsite and meeting the people and >> uh u so true again um Ed what are your >> uh u so true again um Ed what are your thoughts thoughts thoughts >> yeah you know I had this interesting >> yeah you know I had this interesting conversation with a future guest of ours conversation with a future guest of ours Dr. Human Rashidi. He's uh leading AI at Dr. Human Rashidi. He's uh leading AI at UPMC University of Pittsburgh. And I was UPMC University of Pittsburgh. And I was kind of surprised, but I was jumping for kind of surprised, but I was jumping for joy when he was talking about this topic joy when he was talking about this topic specifically. And even though he's like specifically. And even though he's like this great AI leader like all of you, uh this great AI leader like all of you, uh he also was emphasizing sort of the he also was emphasizing sort of the humanist aspect of everything and how humanist aspect of everything and how they try, you know, as they're they try, you know, as they're responsible for training at at PIT and responsible for training at at PIT and UPMC and things like that that you know UPMC and things like that that you know they they keep that human side. Here's they they keep that human side. Here's my here's my only sort of you know my here's my only sort of you know additional thought around that and that additional thought around that and that is because I get this feedback all the is because I get this feedback all the time. And yeah, but you're different.

time. And yeah, but you're different. And that's what people would say to you, And that's what people would say to you, like uh Janade when you're talking about like uh Janade when you're talking about how you've got all these AI agents how you've got all these AI agents working for you and you're we're not an working for you and you're we're not an AI bubble. We're doing all these crazy AI bubble. We're doing all these crazy things. But it's a very select few of us things. But it's a very select few of us that are doing these crazy things. And that are doing these crazy things. And we just have to be careful we just have to be careful >> that we don't create even a more a >> that we don't create even a more a bigger gap than exists today with, you bigger gap than exists today with, you know, people who have access to certain know, people who have access to certain things and people who don't. and and so things and people who don't. and and so that a I'm afraid if if not handled that a I'm afraid if if not handled carefully, you know, the AI could could carefully, you know, the AI could could uh exasperate that gap. So, I think it's uh exasperate that gap. So, I think it's up to all of us as leaders to make sure up to all of us as leaders to make sure that we're we're while we're always that we're we're while we're always exploring and pushing boundaries and

exploring and pushing boundaries and doing cool new things that we also make doing cool new things that we also make sure that we don't leave people behind sure that we don't leave people behind and try to help as much as we can. I and try to help as much as we can. I don't know how to articulate much don't know how to articulate much better. I didn't read the Pope's better. I didn't read the Pope's manifesto that came out over the manifesto that came out over the weekend. Maybe he offered some hope in weekend. Maybe he offered some hope in there. I I didn't read it yet. Uh but there. I I didn't read it yet. Uh but you know, I think he was kind of trying you know, I think he was kind of trying to say something like that.

to say something like that. >> Harvey Ed had called me crazy, you know, >> Harvey Ed had called me crazy, you know, and I'm deeply deeply sad. I'm just and I'm deeply deeply sad. I'm just messing with you. [laughter] messing with you. [laughter] But you're right. I mean, okay. Uh in But you're right. I mean, okay. Uh in all honesty, I did not want to fire all honesty, I did not want to fire people. I did not want to do this. But people. I did not want to do this. But it it is insane. I mean, Harvey is it it is insane. I mean, Harvey is amazing big investor in my company. How amazing big investor in my company. How do I come and tell him that this is the do I come and tell him that this is the productivity of do you understand like productivity of do you understand like do you I have a fiduciary responsibility do you I have a fiduciary responsibility too. So Harvey uh too. So Harvey uh >> Harvey >> Harvey >> Harvey >> last comments and close close for the >> last comments and close close for the day.

day. day. At the end of the day guys as a At the end of the day guys as a physician as a leader in this space uh physician as a leader in this space uh sorry I want to say the following it's sorry I want to say the following it's all about how can we leverage our all about how can we leverage our creativity our humanity our being plus creativity our humanity our being plus AI using these new tools and in my case AI using these new tools and in my case for humanity in my case as a physician for humanity in my case as a physician and that creativity is what I want to and that creativity is what I want to empower everybody. So to me these tools empower everybody. So to me these tools means helping people. How can I leverage means helping people. How can I leverage how can I leverage space? And and I how can I leverage space? And and I really think that is the key for really think that is the key for everybody out there. We we need to everybody out there. We we need to leverage these tools to help us with our leverage these tools to help us with our daily. Uh I literally just vibe coded daily. Uh I literally just vibe coded this morning a relationship u for my this morning a relationship u for my contacts for my family and it's linked contacts for my family and it's linked to a a whole bunch of uh information to a a whole bunch of uh information that I have. And then it tells me, hey, that I have. And then it tells me, hey, you haven't spoken to Jana in 12.2 two you haven't spoken to Jana in 12.2 two days. Uh you guys are working on X, days. Uh you guys are working on X, maybe you should follow up. And Ed is on maybe you should follow up. And Ed is on the list now. Uh and I I get this uh I the list now. Uh and I I get this uh I get this van V like diagram image of all get this van V like diagram image of all these people and then it shows me. So these people and then it shows me. So again, I'm leveraging tools to help again, I'm leveraging tools to help with my missions.

my missions. >> Thank you so much, Felipe. Thank you, Ed >> Thank you so much, Felipe. Thank you, Ed and Harvey. As usual, grateful to and Harvey. As usual, grateful to everyone. Eid Mubarak to those who everyone. Eid Mubarak to those who celebrate. See you next week. Uh, thank celebrate. See you next week. Uh, thank you so much for joining today.

you so much for joining today.