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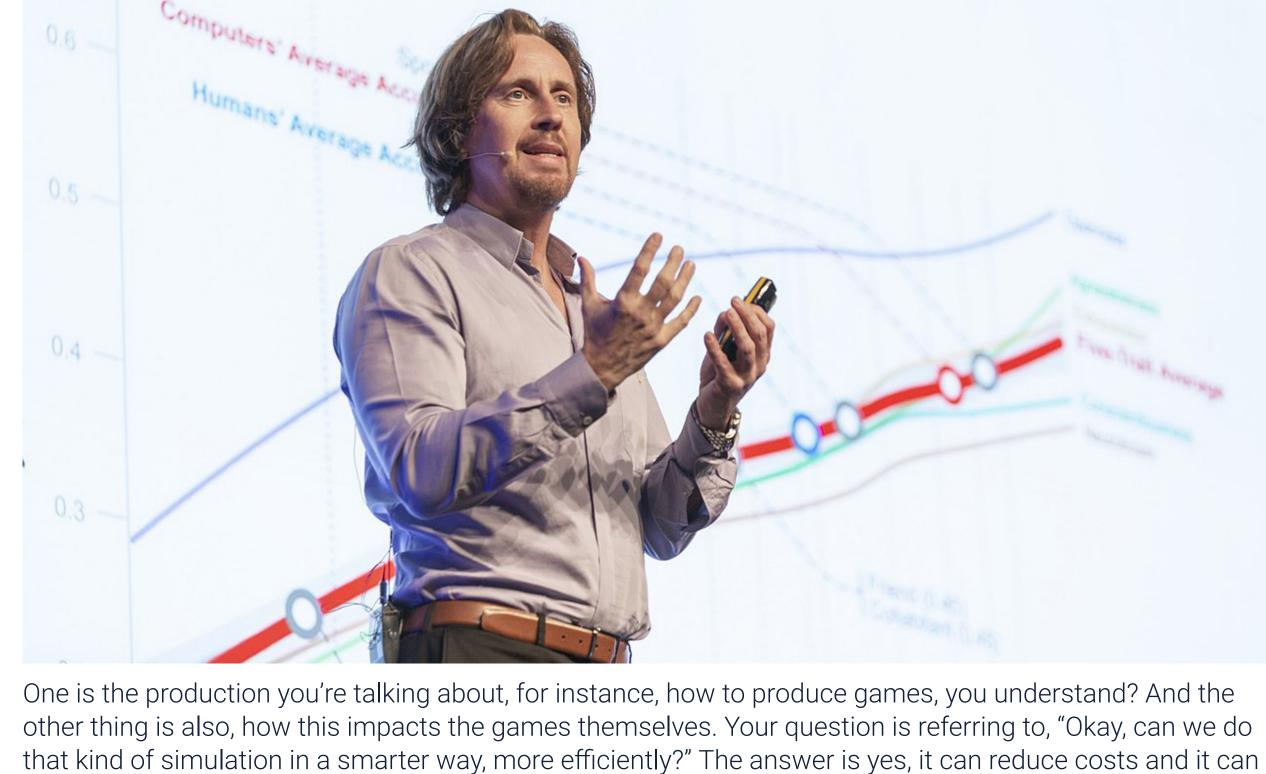
October 6, 2023 Peter Gentsch on AI in GTRevival and Game **Changers that Change Gaming**



specialising in digital management and data science. He sat down with Straight4 to talk about how technologies like ChatGPT and Midjourney are leveraging the gaming industry for both incredible potential as well as demanding challenges ... I guess the first question is the obvious one: Will our industry soon be able to create

an accurate physics model by simply asking our AI co-driver to go off and read all the textbooks and all the scientific papers related to tyre curves and physics models? PG: I'd rather start by just briefly touching on a more general perspective that AI in the gaming industry is not that new. So, if we apply AI, for example, to calculate driver physics, as you mentioned, that's not new in

a traditional way—but the new thing is this kind of generative AI around foundation models. That brings AI to the next level because it's not just analysing things and then trying to simulate things, it really becomes a production innovation factor because it generates things synthetically but very, very powerfully. This generative AI then has a massive impact on two things.



make the process quicker, and that's important because when it comes to gaming, it's about time to market. But the real impact is when we're not only trying to leverage AI to change how we create games and how we do simulation, but more about how this can change the *nature* of the games themselves. Coming up with

new features, for instance, and completely new ideas. The question then is not just, you know, can we do simulation, it's more, can we do that in a smarter way?

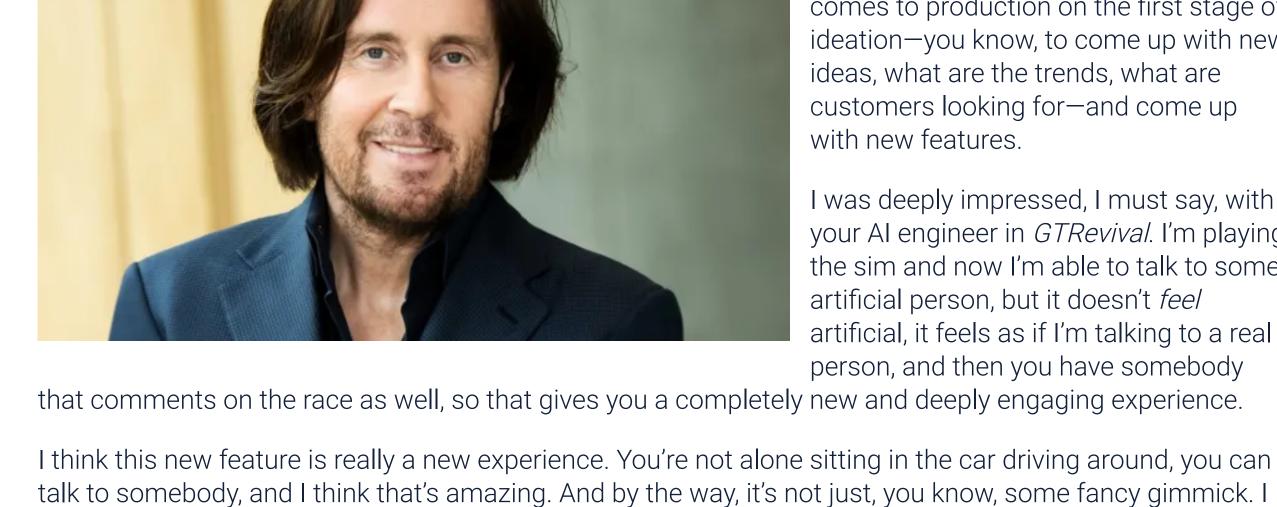


that works to a certain degree. Sure, no problem. But what's important, you know, is that you must adapt this kind of generative AI, you have to know about physics because generally this kind of large language model is fairly general. They do not have the specific knowledge of how to create games or how to drive simulation. So what I'm trying to say is, you need to train the AI to adapt these models, and at that point, I would say that yes, it's a new way to do that kind of simulation—production, software coding, and so on. But I wouldn't say it's just, you know, 100 percent automation. It's more like a co-pilot—a digital system helping you to produce games in a smarter, faster way. It's not just "press the button" and then you have this kind of simulation, but it does bring us to the next level because the level of automation increases, and you

can prototype very easily and that makes it much more efficient to produce games.

of game. I'm very familiar with AI in other industries and we usually use AI when it comes to production on the first stage of

But I think the more interesting part is how can we use generative AI to come up with a completely new kind



ideation—you know, to come up with new ideas, what are the trends, what are customers looking for—and come up with new features. I was deeply impressed, I must say, with your AI engineer in GTRevival. I'm playing the sim and now I'm able to talk to some artificial person, but it doesn't feel

artificial, it feels as if I'm talking to a real person, and then you have somebody think it's important because it's not too easy to drive—I think these games are very challenging for new users -so the AI engineer can give you some guidance, some training, some education.

But this is just the start of where this can lead to. Now we're talking about text-to-voice or voice-to-text, but it could also be creating new 3D assets. It could be text-to-visual, to image, to whatever. I think there's so many ways you can apply this new way of generative AI in games: it's about sound, and about music, it's multimodal, it's not just voice, it's sound, it's video, and that's why generative AI is so powerful.



of generative AI. And what's interesting is that, of all the entertainment industries, games will be most impacted by generative AI, but it's also the most challenging because gaming is about complexity, it's about real time compared maybe to animated movies, live action movies, etcetera.

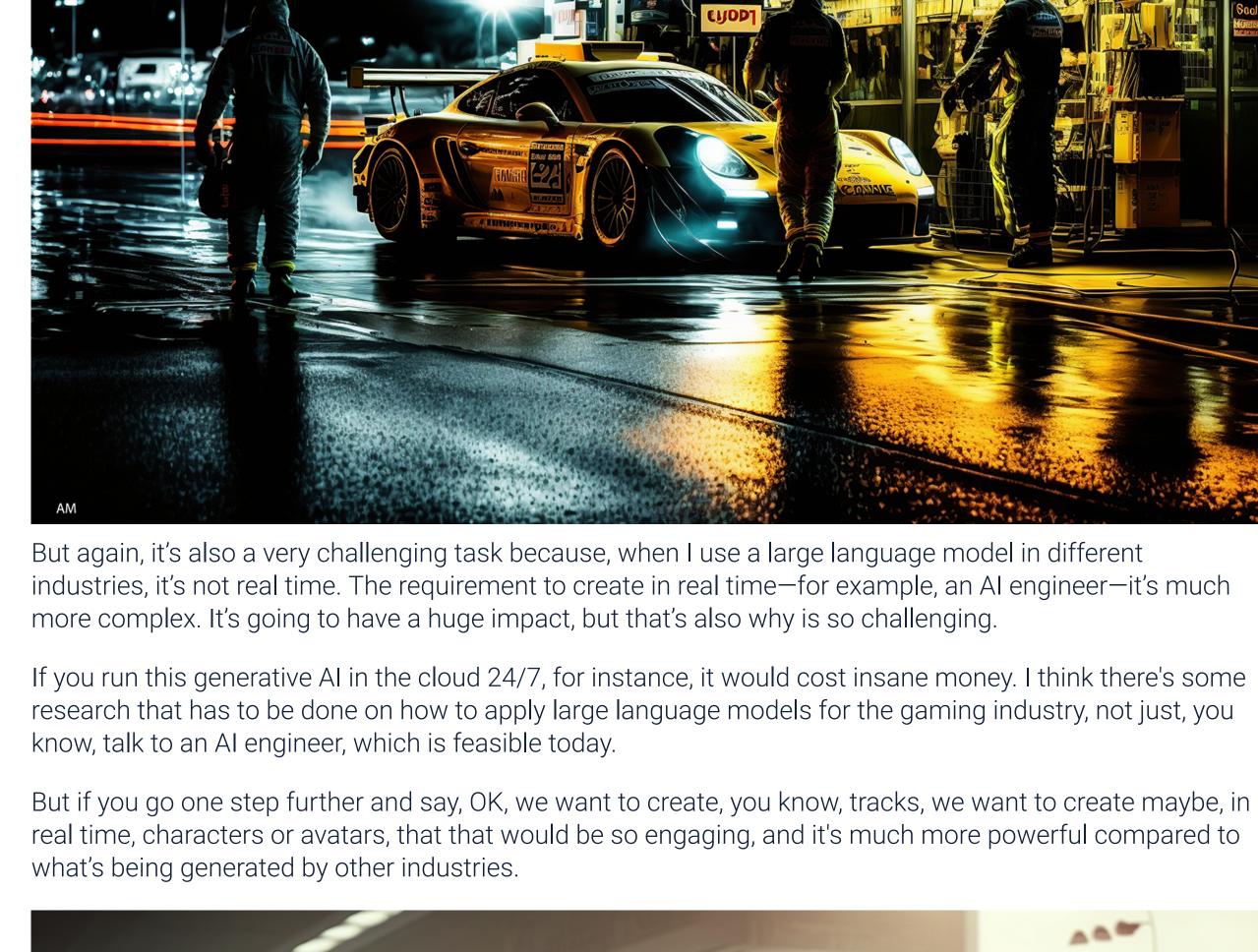
Is this the reason why you were attracted to Straight4?

But with games, if you combine the real time requirement and the complexity, generative AI can help a lot. The flip side is, it's so demanding when it comes to computing power and that's exactly why I'm so fascinated to apply this technology, which I'm very familiar with, to a completely new field. And I think the potential is much bigger compared to finance or to retail because it's all about the creation experience. You know, it's so much about content, images, 3D assets, about sound, and that's the very strength of generative AI. All these perspectives are affected by the game industry. Gaming and generative AI are a perfect match in many ways.

You know, I'm familiar with how to train, adapt and use generative AI in various industries such as insurance,

much ahead and advanced and of course AI is in place but I think they do not really explore the full potential

finance, and retail. I'm very much focusing on that and just wondering, Okay, the games industry, it's very

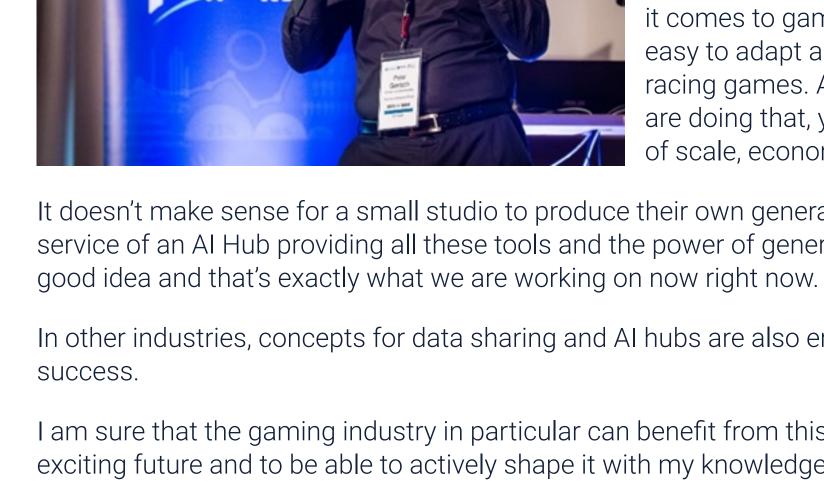




gaming studios, maybe just 2 or 3 people working there because, based on that platform, you know, it's relatively easy to come up with games—maybe not that sophisticated games, but very easy to produce and to play games. So what's missing is a comprehensive approach, a platform that isn't isolated, and to have all this in one

democratization of the gaming industry. I would assume that you'll have some kind of micro-AI studios or

It's a kind of middle layer for what you need to produce games. And I think it also would come to a



produce games more efficiently.

racing games. And I think it could make sense if you are doing that, you know, because it's about economies of scale, economies of scope. It doesn't make sense for a small studio to produce their own generative AI. But if they can refer or can use a service of an AI Hub providing all these tools and the power of generative AI, I think that could be a very

platform for creating racing games or for coming up

There's so much more that can be developed. I think

there's a lot of ideas out there on the market, but when

it comes to gaming and the games industry, it's not so

easy to adapt and train large language models for

In other industries, concepts for data sharing and AI hubs are also emerging and showing initial traction and I am sure that the gaming industry in particular can benefit from this. I am very happy to be part of this exciting future and to be able to actively shape it with my knowledge and experience.

with new features.

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