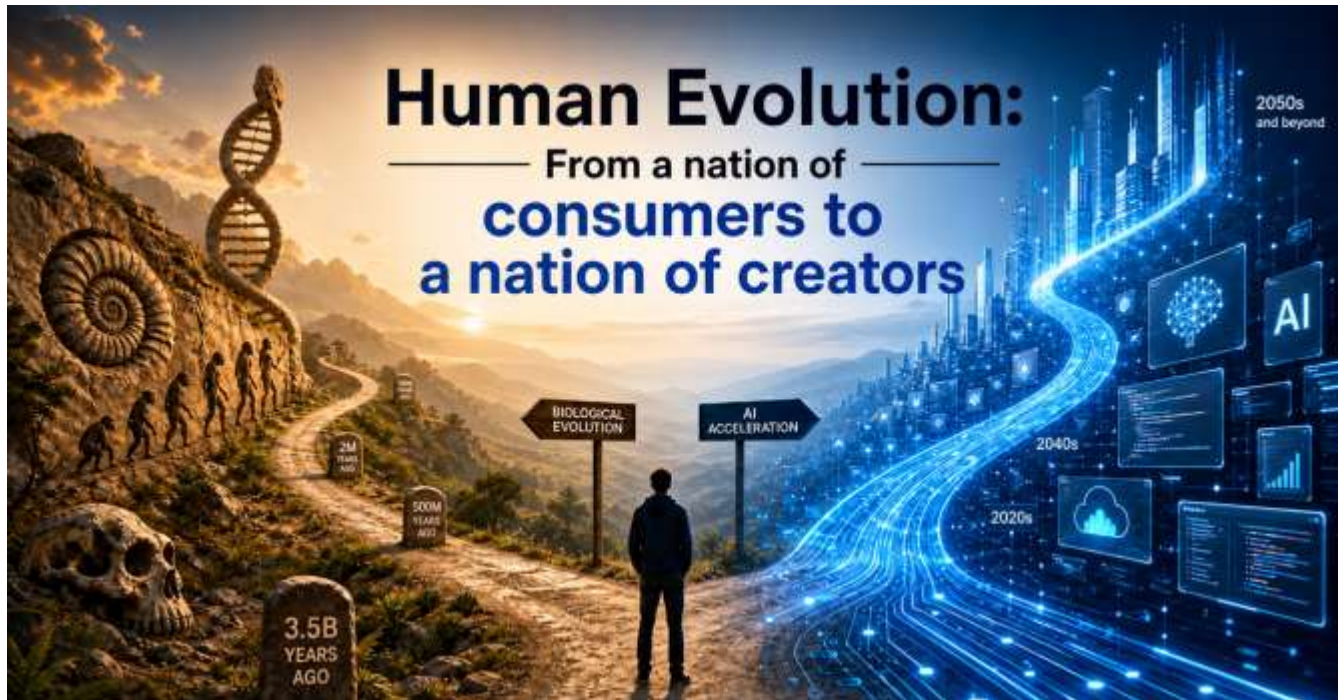


# Discussion on Human Evolution

From the nation of consumers

To the nation of creators



When I mentioned this topic of human evolution to my friend, Alex, he laughed at me.

A: You are a few centuries late. Evolution is done. We are the final version—polished, optimized, no bugs. No further updates required.

I: Respectfully, I disagree. Just look at our kids. They seem smarter than us, at least until they enter universities.

A: That is not evolution. That is called social experience.

I: Not entirely.

There are measurable genetic shifts: better malaria resistance, immune adaptations. Evolution is still quietly pushing commits in the background.

And take autism, for example. I think the increasing numbers might reflect evolution experimenting with cognition in its classic trial-and-error manner.

While punishing social skills, the nature sharpens our ability to focus on limited number of subjects.

Autism draws negative bell curve for intelligence: 40% of people with higher intelligence, 40% with lower, and 20% with average intelligence.

A: So, nature is still doing its slow magic. Are you suggesting we should help it?

I: With every generation we face growing challenges and the gap in different people achievements is widening.

A: I will challenge that. Intelligence is just one factor. There is also "rich dad, poor dad."

And about challenges, you are overthinking AI. Every century had disruptive technology.

And people adapted just fine.

I: True, but AI is different. Previous tools were created and controlled by humans.

AI was created by humans, but now it improves itself. It is not a tool anymore; it is growing and coming down like an avalanche.

Its evolution is fast, much faster than ours. And most people are already falling behind.

A: Okay, that is a fair point. So, what is your solution?

I: Let us start with a very practical question: if AI replaces my job, what is my next move?

We definitely have new opportunities, but finding them requires creative thinking and discussions with a very knowledgeable discussion partner.

The smartest people are already trying to figure out how to ride AI like a horse instead of getting trampled by it.

In 3–5 years, this question will hit almost everyone. And the horse is not slowing down, it is accelerating.

A: So, AI evolves fast, humans evolve slowly. Can we fix that?

Sounds like your old idea again. I remember your article [Fixing Education](#).

I: Not exactly. In that article, I emphasized individual learning as the key.

It is impossible in current schools.

As a former teacher, I know very well that there are difficult students, but there are no impossible cases, they just require hard work and right approach.

My hero is Ron Clark, a teacher from the movie **The Ron Clark Story**.

We need many more like Ron. Unfortunately, such teachers are unique.

And here is the twist: AI gives us a way to scale that kind of teaching.

I wrote more about that in another article: [Message from 2040](#).

Today personal tutoring is not just an opportunity, this is necessity!

A: Wow! You sound like a prophet. But I cannot see anything profitable in this enterprise.

I can retrieve from AI any information I want.

I: This is not about getting information with AI. The brain is not a filing cabinet storing data.

Learning happens when we use data to create something new.

This is hard work, where our neurons interact and create new links – connections.

Unfortunately, most people are consumers, not creators. The biggest growing industry is video games.

A: You are right here. And we cannot change human nature. Right?

I: We can use AI to accumulate the very best teaching experiences and help many more people become creative,

asking difficult questions, and looking towards challenges.

This is about creating software and then specialized robots capable to find the best approach to an individual.

Capable to self-evaluation and improvement, capable to engage more of us into thinking.

A: Not sure that teaching thinking is feasible for many people.

I: Agree, that this is extremely hard, still not impossible.

Think of AI as a teacher, then a discussion and development partner.

Just imagine that this opportunity is available to everyone.

Everyone has an individual AI tutor, first a program, then a specialized robot.

I do not talk about replacing human nature, just about help, which we need.

**We need it to transform the nation of consumers to the nation of creators – builders.**

**I think about that this is priority one task today!**

A: This sounds too ambitious. Any alternatives?

I: Here are the alternatives:

- Decreasing number of elite capable to follow AI evolution, and growing number of others, who will have no job and need something like Universal Basic Income.
- Another alternative is brain acceleration with AI chip (not my preference, see “The message from 2040”)

A: Still, your idea looks to me too complicated.

I: It is not just an idea. I tried to describe technical sides of the idea in several [patents](#), especially in the [Development Factory](#).

And I do some work in this direction.

By the way, individual tutoring is just one factor.

There are other important things, like teaching work in small groups and more.

And with me or without me, when the idea is out, it will be implemented.

**This is the most important task today:**

**teach AI to help us riding the AI horse instead of leaving us behind.**

What do you think?

**Related links:**

<https://aitu.us>

<https://FixingEducation.us>

<https://aitu.us/book/message.pdf>

<https://patents.justia.com/inventor/yefim-zhuk>

<https://aitu.us/itu/DevelopmentFactoryAndBASE.pdf>

===== **Feedback** =====

I start collecting the comments providing more dimensions to the subject. Thank you for your thoughts.

Let us continue the discussion. Provide your comments to the [LinkedIn article](#) or email me directly to [jeff.zhuk@javaschool.com](mailto:jeff.zhuk@javaschool.com)

=====

Doug E.:

Most of this is easy to agree with, but it's still speculation. Humans have the ability to adapt. All life does. AI cannot adapt, it's still a tool. The fact that it can replace jobs is scary until people get tired of AI interfacing with them and want a real connection. For instance, AI cannot sell. It can market and take orders, but it cannot convince and sell. AI cannot nurse people back to health. AI cannot make final decisions. AI has no "gut instinct" that allows it to do what is morally ethical. It just does what it calculates to be the best decision. AI will easily take us to other planets to explore where we cannot. AI can improve our quality of life greatly. Healthcare will benefit from it greatly. Since WE designed AI, it thinks like us. We are AI's God. We are in control.

AI is "hive minded." If we allow it to connect to the Internet and other AI devices, it has instant access to the knowledge base of the entire world and everything we have ever learned. Humans cannot relate to that. We have to learn biologically and individually. So, humans will adapt. We always do ... and we will be better off for it. Imagine if humans could access the Internet with implants in our minds? That's the next step.

=====  
==

Mila S.:

I like your optimistic view on humans catching up with AI.

But, unfortunately, as I see it, humans are degrading and AI is becoming more refined.

AI could be a grate tool or destroy us in the end. It really depends on who controls it.

With so much evil in the World, it doesn't look good to me.

There is no need for humans to read, learn, stride for excellence with AI being available to the rescue at any moment.

There is so much to think and talk about with regards to the human evolution and AI.

Your writing makes someone think about it. And it makes it great!

---

Alex B.:

Hi, Mr. AI Builder.

Nice article, nice picture. I like an idea of AI assisted personal training as you presented. Here are a few quick notes of my view/opinion of the situation you described.

I agree with lightning speed of the AI development. I agree that many jobs will be lost, but the same situation happened thru world technical progress, recall history...auto, rail, electrification, conveyors, internet...

I don't think many people need to know how to build and construct AI, but everyone needs to learn how to utilize it correctly. Just like everyone learn how to use computers without programming them.

I see AI as help at the beginning, but later a catalyzer of human society order destruction, due to its great powers. Reason simple, name me one technological progress that didn't bring equal in power destruction force (nuclear power, internet, biological ... ) Now AI brings its power to a battlefield of state actors and to terrorists (bombing target selection, drones flying, riding, swimming). All your personal activities are recorded and stored and can be brought to an analysis in a split second.

About biological evolution. Sure, there are changes in each generation. Sure, kids are smarter. But also, sure that humanity didn't progress a bit in building the safe and happy societies. Recall

time when you came to US and how it is now. And what happened to the place where you were born.

Couple words from higher perspective. Great sages long ago predicted and described the unfolding situation and offered the solutions. This is big topic could be discussed if needed.

In short, the nature of the human being is desire to receive pleasure for itself and if no limitation applied will destruct itself. There is no limit to our desires, they grow like if I have 100, I want 200 and etc.,. The problem is that satisfaction only lasted limited short time. In our education environment we teach our kids how to be a good worker (white or blue color). Fill them with multiple knowledge, they hardly use. And don't teach them how to be a human being. Don't teach them how to relate to each other. Don't teach them spiritual laws, that are as abundant as physical laws.

It is commendable that you have been teaching computer technology to people. If I needed to learn something in this direction, I would love to have you as a teacher, you have a talent to present complex situating in a simple understandable way.

...

Best wishes!

---

Michael G:

Great written,

I like the ideas of harnessing AI for education.

It may be very advantageous.

From other side I believe that any new & disruptive tech is coming with many issues attached before it can be used safely & for good.

So, I need more time to collect my thought.

=====

Borys R.:

Thank you for sharing your article. I found it thought-provoking and consistent with many of the themes you have discussed over the years regarding knowledge engineering, education, artificial intelligence, and the evolution of human capabilities.

One observation that particularly resonated with me is that human evolution is no longer driven solely by biological processes. Increasingly, it appears that knowledge, technology, artificial intelligence, and our ability to organize and share information are becoming major drivers of human progress.

In many ways, your long-standing vision of conversational development, knowledge factories, and accelerated learning can be viewed as part of that evolutionary process. If individuals and organizations can acquire, organize, and apply knowledge at dramatically higher speeds, the impact on society could be profound.

I also continue to believe that education remains one of the most important areas for transformation. As AI becomes more capable, the challenge will not simply be creating intelligent systems, but enabling people to work effectively alongside them.

Thank you again for sharing the article. I enjoyed reading it and look forward to reviewing future publications.

---

---

Eithan L.:

Fascinating! I'm curious how you envision such a tutor rolling out I'm assuming at first as an app on a phone.

School systems are too sclerotic.

When they implement technology in the classroom even that they manage to make everything worse somehow and at great expense.

Perhaps directly to parents is a better route!

---

---

Joseph K.:

The Article is definitely good. We discussed similar ideas when ChatGPT was developed.

At that time, you had a reservation to use AI to develop educational software. You told me that AI owners collect good ideas.

However, with the development of AI today you can: teach AI to help us riding the AI horse instead of leaving us behind.

You don't need the help of large corporations.

"1000 monkeys with computers cannot write Romeo and Juliet."

Let's keep in touch.

---

Emma B.:

That evolution is ongoing is not really a subject of debate.

Alex's initial statement that we are the final version may be due to his belief in religious dogma or a joke.

[10 Ways Evolution is Still Happening in Humans Right Now](#)

[Are We Still Evolving? What Human Evolution Looks Like Today](#)

[Human Evolution News -- ScienceDaily](#)

[The Top Human Evolution Discoveries of 2025, From the Intriguing Neanderthal Diet to the Oldest Western European Face Fossil](#)

Your argument re autism and intelligence is valid

[Does Autism Make You Smarter? What Research Shows - ScienceInsights](#)

He has a valid point in "rich dad, poor dad". Socioeconomic status affects brain development.

[How Does Socioeconomic Status Influence Child Development? - ScienceInsights](#)

I agree that AI is different from other technical innovations (Yuval Harari talks about it all the time).

But only future will tell how disruptive and beneficial it's going to be. Our predictions often fall short. Brexit vs Bregret.

I personally believe that human brain will remain cognitively superior to machine even if a machine can win a game of chess.

I also have teaching experience and my mother was a chemistry teacher. With regard to educability everyone can be educated, especially by a great teacher, to their best potential. That doesn't mean that a great novelist can become a great biochemist and vice versa.

===== More Comments =====

Let us continue the discussion. Place your comments [here](#) or

Email me directly to [jeff.zhuk@javaschool.com](mailto:jeff.zhuk@javaschool.com) or Provide your comments to the [LinkedIn article](#)

=====