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**Will AI take over jobs in SE/CS fields?**

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What is AI?

-Artificial Intelligence (AI) is the part of computer science concerned with designing intelligent computer systems

-It is associated with intelligence in human behaviors such as: Understanding language, Learning, Reasoning.

-This is used in computer vision, robotics, and machine learning applications.

-The artificial intelligence system does not require to be pre-programmed, instead of that, they use such algorithms which can work with their own intelligence

-The goal of AI is to make a smart computer system like humans to solve complex problems.

-Basically, it’s when a computer can perform or behave as a human in the closest way possible.

Define SE

-It is the discipline of designing, creating, testing, and maintaining software in a systematic and organized manner.

-The role of software engineering goes far deeper and vaster than just developing software.

-In software engineering, the focus is to ensure that software is built and maintained long-term.

-It is also important for ensuring that software is secure, resilient, and can withstand cyberattacks and other security threats.

-The goal of software engineering is to ensure that software is reliable, efficient, maintainable, and meets the needs of its users.

Applications of AI

It has replaced jobs outside of software engineering

For example:

-factories and warehouses are primarily run by robots.

-cashiers are replaced by electronic kiosks

-self driving cars

What can AI do for software engineering?

-AI can write code reducing the amount of time it takes to develop software, allowing software engineers to focus on more complex tasks.

- AI can be used to create more efficient and effective software

-AI can do tasks such as code refactoring, bug fixing, and testing.

-AI can also be used to detect and identify patterns in data. This can be used to develop more accurate and efficient algorithms for software development.

Where does artificial intelligence fall short?

**1. AI Lacks Emotional Intelligence**

Emotional intelligence is one distinguishing factor that makes humans forever relevant in the workplace. The importance of emotional intelligence in the workspace cannot be overemphasized, especially when dealing with clients.

As social animals, one basic, undeniable need of humans is the need for emotional connection with our kind. We achieve this connection through the chemical and biological interaction of several hormones and emotions between the parties involved. AI does not possess it as it comprises software and chips, not biological cells.

Regardless of how well AI machines are programmed to respond to humans, it is unlikely that humans will ever develop such a strong emotional connection with these machines. Hence, AI cannot replace humans, especially as connecting with others is vital for business growth.

**2.** AI Can Only Work with Inputted Data

AI can only function based on the data it receives. Anything more than that would take on more than it can handle, and machines are not built that way. So, when the data input into the machine does not include a new area of work, or its algorithm does not include unforeseen circumstances, the machine becomes useless.

AI can only function based on the data it receives. Anything more than that would take on more than it can handle, and machines are not built that way. So, when the data input into the machine does not include a new area of work, or its algorithm does not include unforeseen circumstances, the machine becomes useless.

Therefore, if you fear that AI may infiltrate all industries and eliminate the demand for your professional skills, you can rest assured that won't happen. Human reasoning and the human brain's power to analyze, create, improvise, maneuver, and gather information cannot easily be replicated by AI.

**3. AI’s Creative Process Is Limited to the Data It Receives**

When brainstorming creative concepts and ways of doing work, AI lacks this human ability because, as already established, AI can only work with the data it receives. Hence, it cannot think up new ways, styles, or patterns of doing work and is restricted to the given templates.

Employers and employees know how important creativity is in the workspace. Creativity offers the pleasant sensation of something new and different instead of the boring, repetitive actions in which AI is designed to function. Creativity is the bedrock of innovation.

Related to creative thinking is the ability to think outside the box. Machines are designed to "think within the box." That means AI tools can only function within the dictates of their given data.

On the other hand, humans can think outside the box, sourcing information from various means and generating solutions to complex problems with little or no available data. Since AI does not possess the ability to think out of the box and generate creative ideas for innovation, AI cannot take over humans in the workspace.

**4. AI Does Not Have Soft Skills**

Soft skills are a must-have for every worker in the workspace. They include teamwork, attention to detail, critical and creative thinking, effective communication, and interpersonal skills, to mention but a few. These [soft skills are in demand](https://www.makeuseof.com/top-soft-skills-in-demand/) in every industry, and you must develop them to succeed professionally.

Humans are taught and required to possess these skills; developing them is valuable for everyone, regardless of position. Company executives need them to thrive, as do a team of field workers in any industry. Hence, these soft skills give you the upper hand in the workspace over AI.

However, soft skills are alien to machines with artificial intelligence. AI cannot develop these soft skills critical to workplace development and growth. Developing these skills requires a higher level of reasoning and emotional intelligence.

**5. Humans Make AI Work**

There would be no artificial intelligence without human intelligence. The term artificial intelligence means humans design it. Humans write the lines of code with which AI is developed. The data AI machines operate with are inputted by humans. And it is humans that use these machines.

As AI applications continue to grow, so will the services of humans. Someone has to design the machine's AI processes, create these machines, operate, and maintain them. Only humans can do this. Standing on these facts, you can boldly dismiss any speculations of AI overriding humans in the workspace.

**6. AI Is Meant to Complement Human Ability and Intelligence, Not Compete** with It

Artificial intelligence applications are indeed gaining ground in the workplace, and they will replace many jobs people perform today. However, the jobs it takes are limited to repetitive tasks requiring less intense reasoning. Additionally, evolving workplace demands will create new roles for humans as the world moves towards a more integrated tech landscape.

A report by the [World Economic Forum](https://www.weforum.org/reports/the-future-of-jobs-report-2020/in-full/executive-summary) shows that while machines with AI will replace about 85 million jobs in 2025, about 97 million jobs will be made available in the same year thanks to AI.

Because in this present age, it will be difficult, if not impossible, to live without AI, and without humans, there would be no artificial intelligence. Forward-thinking organizations are already developing ways to incorporate human capabilities and AI to attain higher levels of productivity and innovation.

**Learn to Work With AI, Not Fear It**

Artificial intelligence isn't something to be scared of. However, you must step up your game to not be replaced by AI. Upskill, stay abreast with the latest trends in your field, and be innovative and creative. This way, you will be an asset no employer would risk losing.

Conclusion

In conclusion, while AI may automate some of the tasks that software engineers currently do, it is unlikely that it will completely replace them anytime soon. Software engineering is a complex and multidisciplinary field that requires a combination of technical and soft skills, creativity, and human interaction, which is something that AI is not capable of replicating.