

**THE INFLUENCE OF AI ON THE EMPLOYMENT OF IT  
PROFESSIONALS**

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The coming of artificial intelligence (AI) has transformed the labor market, created new types of jobs and improved exiting ones. The development of AI is creating modern, in-demand specialties that require skills such as critical thinking and creativity.

AI technologies are progressively being deployed to handle tasks that are repetitive or routine, allowing human employees to concentrate on more complex and innovative tasks. As AI becomes progressively integrated into human work, concerns about job losses and income imbalance may become even more significant. While AI technologies can improve efficiency and reduce costs for businesses, there is concern that automation could negatively impact the labor market [1].

The coming era of artificial intelligence carries the risks of great influence among the group of companies that own these modern technologies. To counter this trend, it is vital that comprehensive support systems are created to help professionals adapt to new technologies.

Programmers who use AI as a tool to improve their skills will be better prepared for new challenges and a world where machines and humans work together to solve complex problems and make progress.

In the field of software development AI powered tools can perform routine coding tasks such as error detection and correction, allowing programmers to focus on the more complex and creative aspects of software development [2]. However, this does not guarantee that the program will be error-free. A programmer must still review the code generated by the artificial intelligence, understand it, and have direct knowledge of the programming language in which the code was written to be able to correct errors. AI-powered systems can analyze code for errors, suggest fixes, and even predict potential vulnerabilities. This increases development efficiency, software reliability, and security while

reducing debugging time. For example, thanks to AI-driven tools such as GitHub and Copilot, programmers can now swiftly produce standard code, accelerating software development, minimizing time spent on repetitive duties, and shortening the launch timeframe for new applications. On the one hand, the rise of artificial intelligence is reshaping the programming landscape, streamlining development and simplifying workflows. On the other hand, it necessitates the programmers to evolve and acquire fresh expertise. AI isn't intended to supplant developers; instead, it's emerging as a potent asset enabling them to build superior software more rapidly. AI's ability to examine information and assignments, providing pre-built solutions, is remarkable, yet it still lacks genuine comprehension, instinct, and the capacity of imaginative thought characteristic of humans. Consequently, we do not expect AI to fully substitute human workers, as the design and upkeep of AI systems demand substantial financial backing, robust computing power, and skilled professionals. The adoption of AI introduces numerous concerns, including data security, algorithmic prejudice, and accountability for AI-generated mistakes. To maximize AI's advantages while mitigating potential downsides, it is vital to cultivate carefully governed AI systems. Rather than substituting human involvement, AI ought to be regarded as a means of augmenting human potential, all while upholding ethical and societal values.

The trajectory of AI hinges on how humans develop and incorporate it into our world. Furthermore, ongoing research within the AI field remains crucial. Thoughtful application of this technology will be key to fostering a lasting future where artificial intelligence functions as a helpful resource for society, rather than a source of new challenges.

### **References**

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2. The Impact AI jobs: how artificial intelligence is shaping the future workforce. – URL: <https://www.thehrdirector.com/business-news/ai/impact-ai-jobs-artificial-intelligence-shaping-future-workforce>. (date of access: 23.03.2025).