

## THE IMPACT OF ARTIFICIAL INTELLIGENCE ON EMPLOYMENT

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Artificial Intelligence (AI) is changing the job market, creating new types of jobs while automating routine tasks. With 20-50 million new jobs expected by 2030, AI is creating and enhancing jobs in healthcare, pharmaceuticals and other industries. While some industries may experience significant job displacement, the economy is expected to benefit from increased productivity and output. As AI continues to evolve, understanding its impact on employment and the economy is crucial. AI is rapidly transforming the workforce, with significant changes already apparent in the job market and employment landscape. As AI continues to develop and evolve, businesses and workers must adapt to stay competitive and efficient.

Thanks to advanced technologies, many manual and repetitive tasks can now be automated, leading to increased efficiency and productivity. But this shift is also causing job roles to evolve, with some becoming obsolete while new ones emerge. For example, manufacturing workers need to acquire new skills to operate and maintain machines and robots that are taking over manual tasks. Additionally, AI integration into high-tech manufacturing processes is creating new job roles like data analysts, AI programmers, and machine learning specialists. These emerging job roles require a combination of technical skills and a deep understanding of business processes. The jobs of the future will require a mix of technical skills, creativity, and adaptability to leverage the power of automation and AI effectively. As AI continues to transform the job market and employment landscape, individuals need to adapt to stay relevant and competitive in their careers. One way to adapt is to focus on developing skills that are in high demand, such as data analytics, machine learning, and programming. This can involve taking courses, attending workshops, or earning certifications in these fields. Another way to adapt is to embrace the opportunities presented by AI, such as using it to augment human capabilities and work more efficiently. This may involve learning how to work with AI tools and technologies and collaborating with AI systems to achieve better results. Additionally, individuals

should stay informed about the latest developments in AI and its impact on their industries.

This can involve following industry publications, attending conferences, and networking with peers and experts. Finally, individuals should remain flexible and adaptable, as the job market and employment landscape continues to evolve rapidly in response to AI and other technological advances. By embracing change and continually developing their skills and knowledge, individuals can thrive in a world where AI is transforming the way we work.

**Impact of AI on Employment :** Artificial Intelligence (AI) is changing the job market, creating new types of jobs and enhancing existing ones. As AI continues to develop and evolve, it is important to understand how it is impacting the job market, the types of new jobs that are emerging, and the potential impact on unemployment rates and the economy as a whole. According to a report by McKinsey&Company , AI is expected to create 20-50 million new jobs globally by 2030. These new jobs will be in a range of industries, including healthcare, manufacturing, and finance. Some of the new job roles that are emerging as a result of AI include:

- **AI Trainers and Teachers:** These are individuals who are responsible for training and teaching AI systems. They ensure that AI algorithms are accurate and effective, and they also develop new AI applications and systems.
- **Data Analysts and Scientists:** With the increase in data generated by AI systems, there is a growing demand for individuals who can analyse and interpret this data. Data analysts and scientists use AI tools to analyse data and identify patterns and insights that can help businesses make better decisions.
- **Human-Machine Teaming Managers:** As AI becomes more integrated into the workplace, there is a growing need for individuals who can manage the interaction between humans and machines. Human-machine teaming managers ensure that AI systems work effectively with human workers, enhancing productivity and efficiency.
- **AI Ethics and Policy Specialists:** As AI becomes more prevalent, there is a growing need for individuals who can address the ethical and policy implications of AI. AI ethics and policy specialists ensure that AI systems are developed and used in a responsible and ethical manner.

AI is creating new job opportunities that require skills such as critical thinking, creativity, and problem-solving. Artificial Intelligence is also enhancing existing jobs by improving accuracy and precision in many tasks, such as quality control and



data analysis. For example, in healthcare, AI is being used to assist doctors and nurses with diagnosis and treatment recommendations, improving patient outcomes and reducing the workload of healthcare professionals. The impact of AI on unemployment rates and the economy as a whole is a topic of debate. While AI is creating new job opportunities, it is also leading to job displacement, particularly in industries that rely heavily on routine and repetitive tasks. According to a report by the World Economic forum, by 2025, AI will have displaced 75 million jobs globally, but will have created 133 million new jobs. This means that there will be a net gain of 58 million jobs globally, but there will still be significant job displacement in certain industries. The impact of AI on unemployment rates will also vary by region and industry. For example, the manufacturing industry is likely to experience significant job displacement as a result of AI, while the healthcare and education industries are expected to see significant job growth. In addition to its impact on employment, AI also has the potential to impact the economy as a whole. AI can lead to increased productivity and output, which can stimulate economic growth. However, there are concerns about the potential for AI to widen the wealth gap, as those with the skills and knowledge to work with AI may earn higher salaries than those who do not have these skills.

Technology has been evolving at an unprecedented rate, and with it, our job roles. Automation and AI are changing the way we work, and we are beginning to see significant impacts across various industries. While certain job roles are at risk of being automated, others are evolving to include the use of AI. As the use of AI continues to grow, it is essential that we take a proactive approach in ensuring that the benefits of AI are balanced with the needs of workers and society as a whole. We must ensure that we are adequately prepared to adapt to the changes in the job market and acquire new skills to thrive in the digital age. Furthermore, it is crucial to address the potential loss of jobs due to automation. We must develop strategies that support workers who are at risk of displacement and ensure that they have access to training and education to equip them with the skills needed to adapt to new job roles.

Despite the challenges, the integration of AI in job roles has the potential to drive innovation, increase efficiency, and improve our quality of life. By leveraging the full potential of AI, we can create new job opportunities, drive economic growth, and make significant strides in addressing some of the world's most pressing challenges. The impact of AI on job roles is significant and far-reaching. It is





essential to approach this transformation proactively, ensuring that the benefits of AI are balanced with the needs of workers and society. By doing so, we can create a future where AI and human workers can work together seamlessly to achieve shared goals and drive progress.

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