

The Impact of Artificial Intelligence in Information Technology: Opportunities and Challenges

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Abstract: *Artificial Intelligence (AI) has had a significant impact on the field of Information Technology (IT) in various ways. Artificial Intelligence is used in machine learning, deep learning, robotics, speech recognition, natural language generation, and biometric identification. AI is used in a wide range of industries, including the healthcare, manufacturing, and assembly sectors, as well as commercial organizations and the automobile sector. AI is becoming more and more popular across a wide range of industries due to its many benefits. The AI-powered machine is accurate, efficient, and capable of handling multiple tasks at once. It also costs less than a human worker. Additionally, AI faces a number of issues that limit its usefulness. Artificial intelligence is vulnerable to data problems, security flaws, and technical issues. If people don't comprehend the AI system, it may also result in mishaps. The growing application of AI has revolutionized a number of industries by improving organizational performance and enabling data security.*

Keywords: Artificial Intelligence, Machine Learning, Speech Recognition and Biometrics.

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