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Impact of Artificial Intelligence on Engineering: Past, Present and Future

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Abstract

Recent advancements in cloud computing and software technology have resulted in the development of powerful Artificial Intelligence (AI) tools for engineering applications. However, the impact of AI in future engineering jobs remains ambiguous. This paper discusses recent AI developments, AI applications, the influence of AI on the Engineering profession, and the productivity of engineers. In addition, ethics and professional impacts to be considered with the introduction of AI are addressed. The results of a survey conducted among people from Engineering colleges across Ireland are also presented.

Keywords: Artificial Intelligence; Ethics; Deep Learning; Industry 4.0; Machine Learning