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Artificial intelligence and Machine learning:

Artificial intelligence and machine learning are the foundation of advanced engineering.

As AI and machine learning revolutionise the way engineers work, they

must be ready to adapt to the latest technologies.

These technologies appear to be everywhere, we must not lose sight of how the incredible things they enable us to achieve today and in the future. Machines will be able to support not just intelligent production lines and challenging manufacturing activities as they get more experienced but also create and enhance tasks over time with little or no human interposition through machine learning.

By using machine learning to discover patterns in the data, machines will be incredibly important to help with engineering judgment.

AI has altered most industrial areas, including retail, manufacturing, finance, healthcare, and media, and it continues to expand. Another way AI may help engineers is by automating low-value jobs, allowing engineers to focus on higher-value ones.

There's no doubt that AI and Machine learning will help manage engineering data more efficiently and will be an essential component of engineering's future.

BIG DATA:

Big data analytics applications often include data from both internal systems and external sources.

Big data analytics is the often complex process of examining big data to uncover information such as hidden patterns, correlations, market trends and customer preferences that which can help organizations make informed business decisions.

Big data analytics is a form of advanced analytics, which involve composite applications with elements such as predictive models, statistical algorithms and what-if analysis powered by analytics systems.