# Artificial Intelligence and Trends in Patenting

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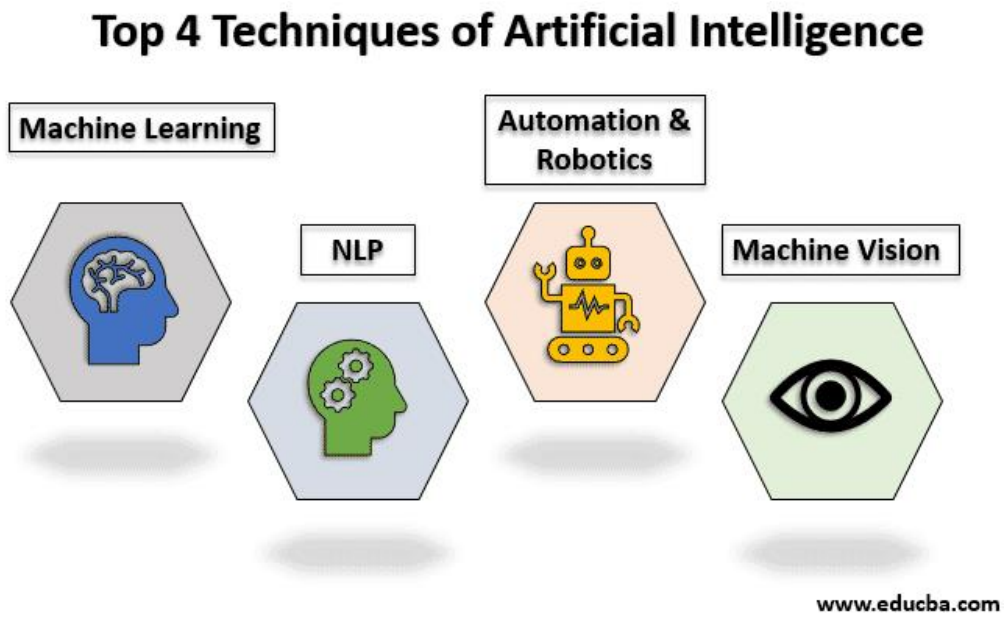
Artificial Intelligence, a fuel to almost every industry today, has shown a paradigm shift in technology over a period of time and has become a part of our daily lives. From improvements in weather forecasting, boost crop yields, enhancement of detection of cancer, prediction of an epidemic to autonomous vehicles to medical diagnosis and advanced manufacturing, AI is almost everywhere. It has bought a revolutionary effect in the global marketplace.

**Introduction**

The term "artificial intelligence" is not something new, as it emerged in the 1950s, and innovators and researchers have filed patent applications for nearly 3,40,000 AI-related inventions and published over 1.6 million scientific publications till date. (Source: WIPO)

It is to be understood that artificial intelligence does not stand alone, rather it is a blend of four primary techniques as depicted in the following diagram:




Source: educba.com

Out of the above said techniques, Machine Learning has been the most applied technique in inventions going in for patenting. Nearly 70 percent of inventions recite an AI technique, application or field working in correlation with one another. The commonly used combinations in patent applications are deep learning with computer vision, computer vision with transportation,

telecommunication and security; ontology engineering with natural language processing (NLP), and machine learning with life and medical sciences. These combinations suggest areas to watch for rapid developments in AI in the near future.

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