

7 Cognitive Technologies That Will Change Our World

The underlying technologies associated with Artificial Intelligence (AI)



Machine Learning

Automates process of training and fitting models to data.
Example Applications: Highly granular marketing analysis of big data



Neural Networks

Uses artificial "neurons" to weigh inputs and relate them to outputs.
Example Applications: Identifying credit fraud, weather predictions



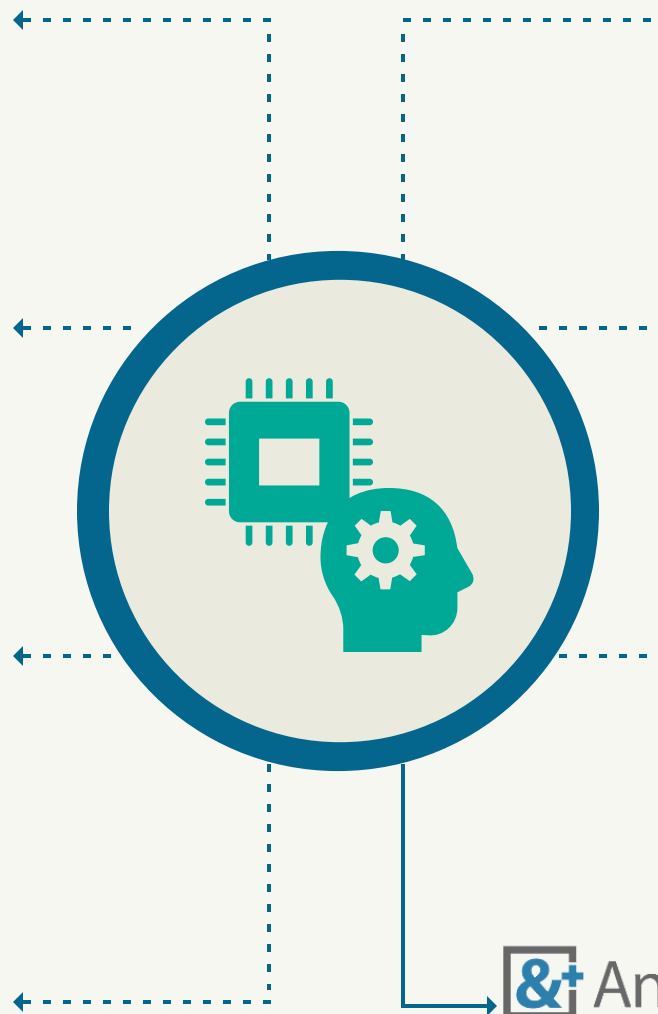
Deep Learning

Neural networks with many layers of variables or features.
Example Applications: Image and voice recognition, extracting meaning from content



Natural Language Processing

Analyzes and "understands" human speech and text.
Example Applications: Speech recognition, chatbots, intelligent agents



Rule-based Expert Systems

A set of logical rules derived from human experts.
Example Applications: Insurance underwriting, credit approval



Physical Robots

Automates a physical activity.
Example Applications: Manufacturing, factory, and warehouse tasks



Robotic Process Automation

Automates structural digital tasks and interfaces with systems.
Example Applications: Credit card replacement, validating online credentials



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