

AI and Machine Learning at AWS

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What is it?



Artificial intelligence

Any technique that enables computers to mimic human intelligence using logic, if-then statements, and ML (including deep learning)



Machine learning

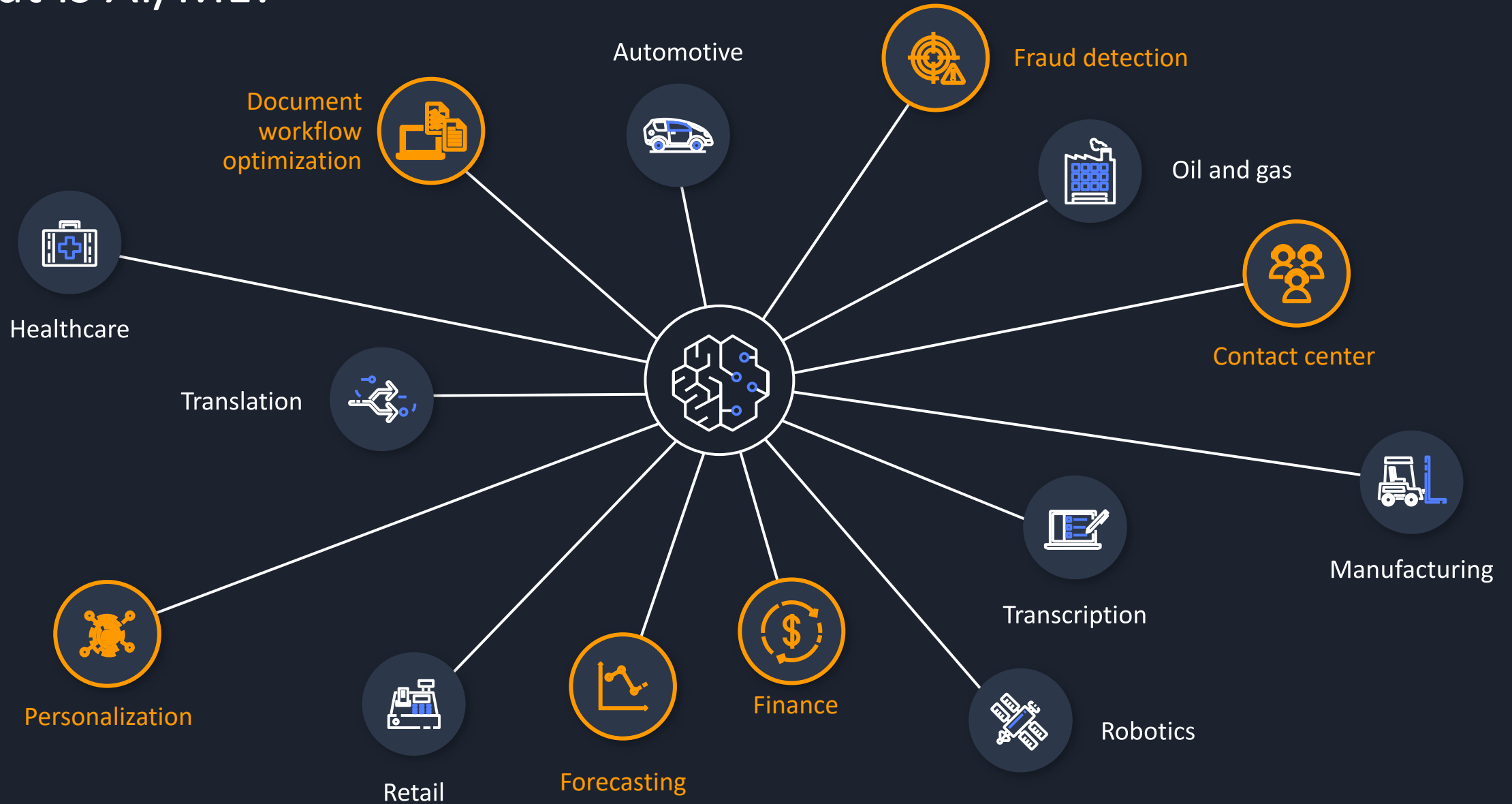
Subset of AI that uses machines to search for patterns in data to build logic models automatically



Deep learning

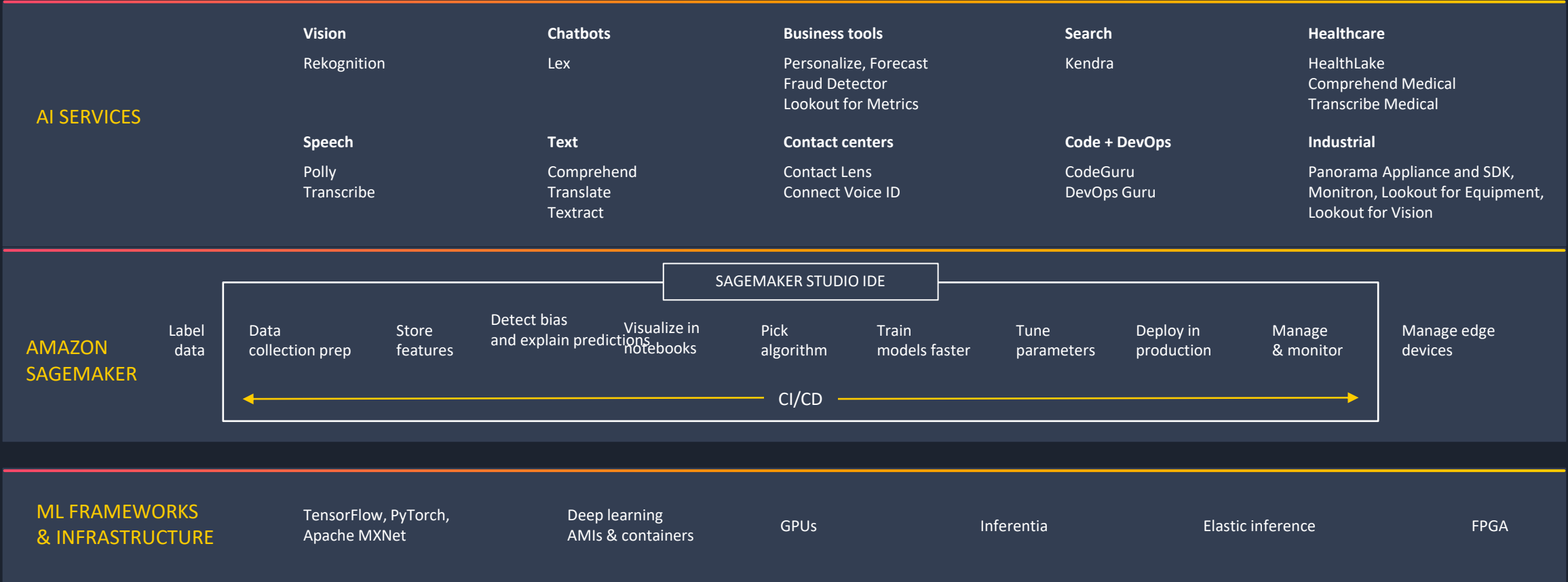
Subset of ML composed of deeply multi-layered neural networks that perform tasks like speech and image recognition

What is AI/ML?



The AWS ML stack

Broadest and most complete set of machine learning capabilities



What AI/ML is not

NOT a decision-maker

NOT a homogeneous range of services and technologies

NOT a static or fully-mature set of technologies

NOT suited to one-size-fits-all governance.

AI/ML Use Case:

Detecting market manipulation activities

FINRA is the primary regulator of broker-dealers and financial exchanges in the US

Every day FINRA monitors 100% of equities and options activity and processes up to 155 billion records on a single day. Using AWS Machine Learning FINRA is able to automate the detection of market manipulation.





Thank-you!