



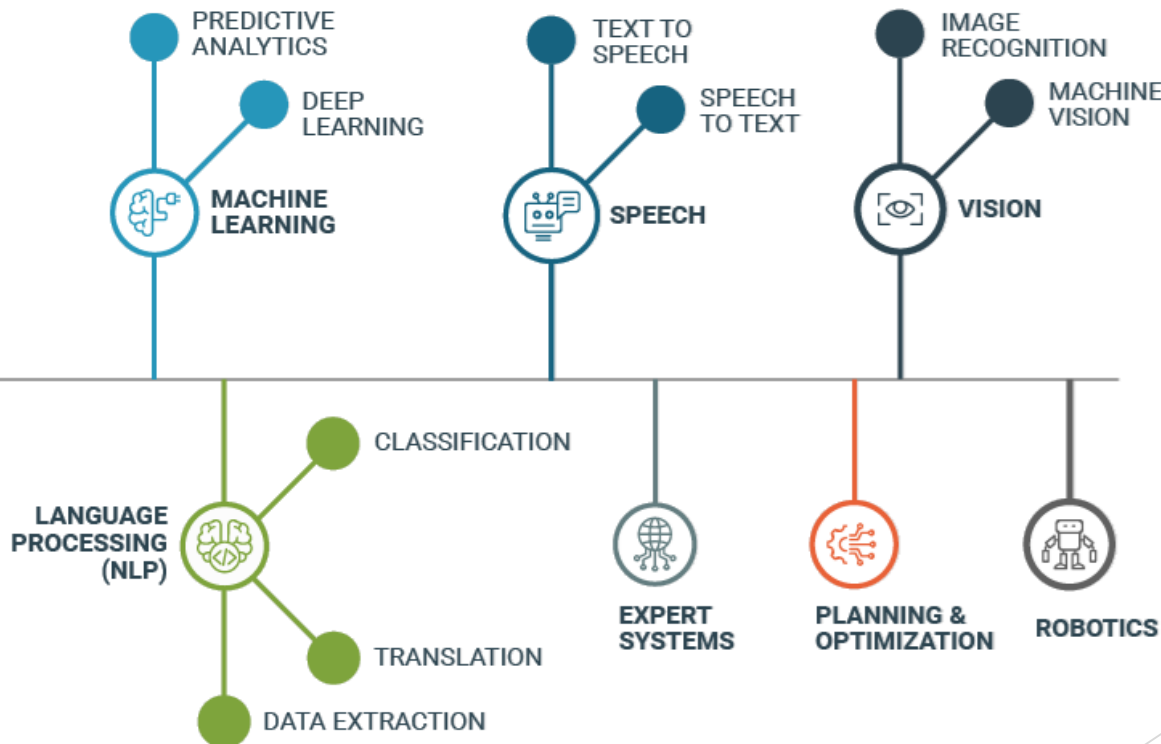
NLP and ML in Banking!

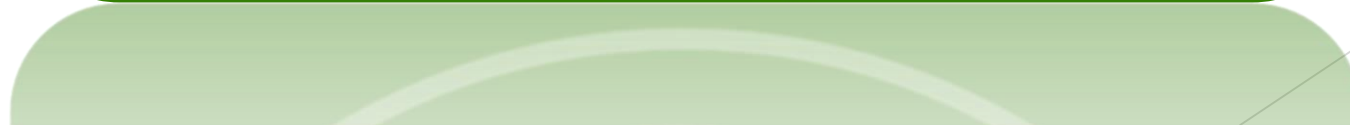
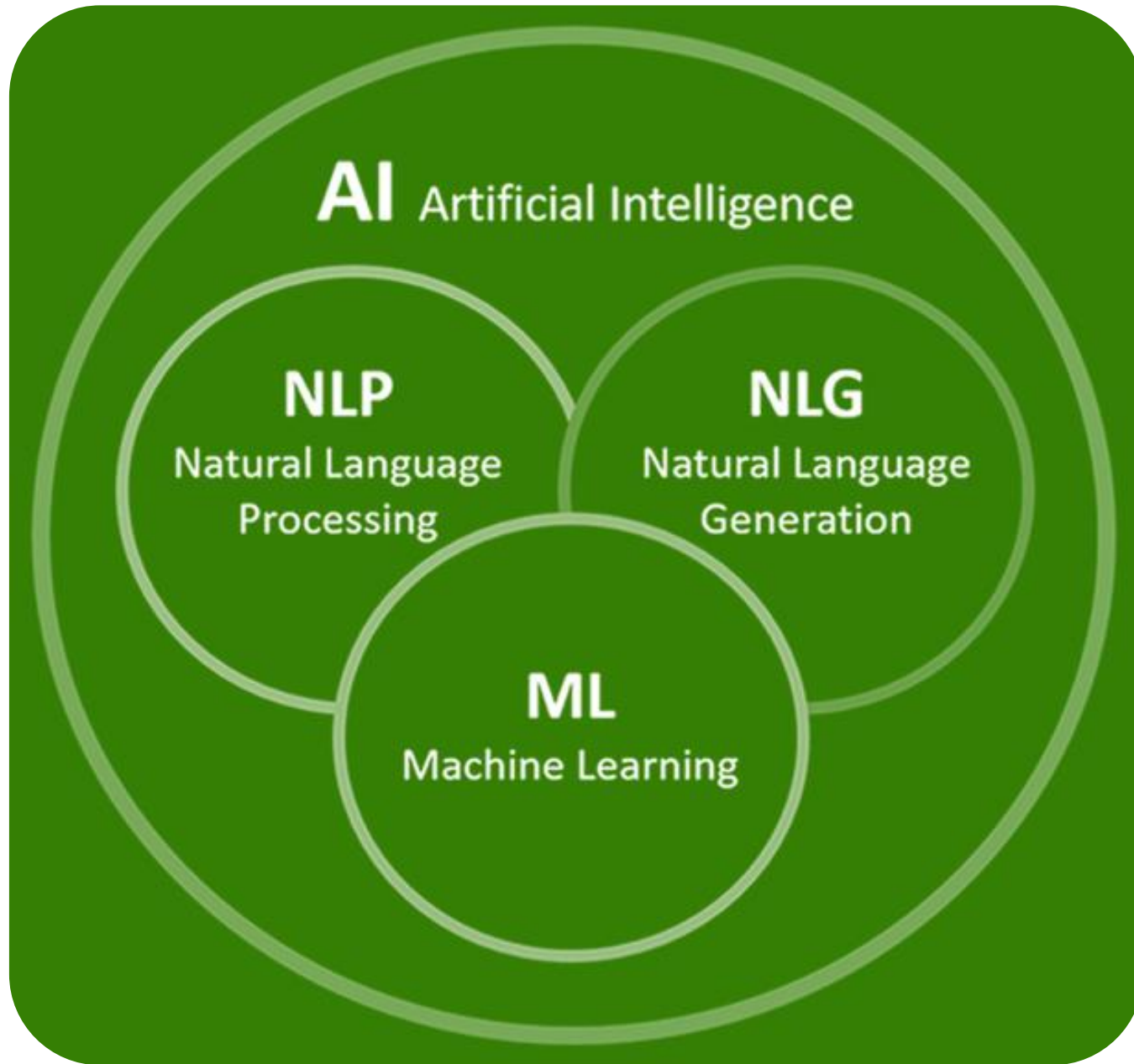
Ammar Jalalimanesh

What is AI?

- ▶ AI is a collection of technologies that includes ML, natural language processing (NLP) and robotics that allow machines to sense, interpret, act and learn on data to aid decision-making.

ARTIFICIAL INTELLIGENCE





Why does it matter?

- ▶ AI will disrupt and transform the relationship between people and machines, and drive greater productivity in businesses.



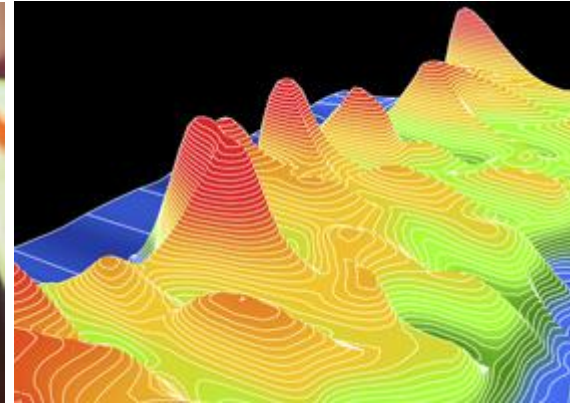
AI Adoption in the Enterprise



Financial services
Fraud detection, ID verification



Government
Cyber-security, smart cities and utilities



Energy
Seismic and reservoir modeling



Retail
Video surveillance, shopping patterns



Health
Personalized medicine, image analytics



Consumer tech
Chatbots



Service providers
Media delivery



Manufacturing
Predictive and prescriptive maintenance

AI Market!

ARTIFICIAL INTELLIGENCE (AI) MARKET



Global Artificial Intelligence (AI) Market (US\$ Bn), 2018 to 2026

2018 – 20.67 Bn

2026 – 202.57 Bn



Global Artificial Intelligence (AI) Market Share, By Technology, 2018

Natural Language Processing

22.5% - Computer Vision

Machine Learning

Others

Natural language processing (NLP)

London is the capital and most populous city of England and the United Kingdom. Standing on the River Thames in the south east of the island of Great Britain, London has been a major settlement for two millennia. It was founded by the Romans, who named it Londinium. London's ancient core, the City of London, largely retains its 1.12-square-mile (2.9 km²) medieval boundaries.

Steps in Natural Language Processing



Lexical Analysis

**Syntactic Analysis
(Parsing)**



Semantic Analysis

Discourse Integration

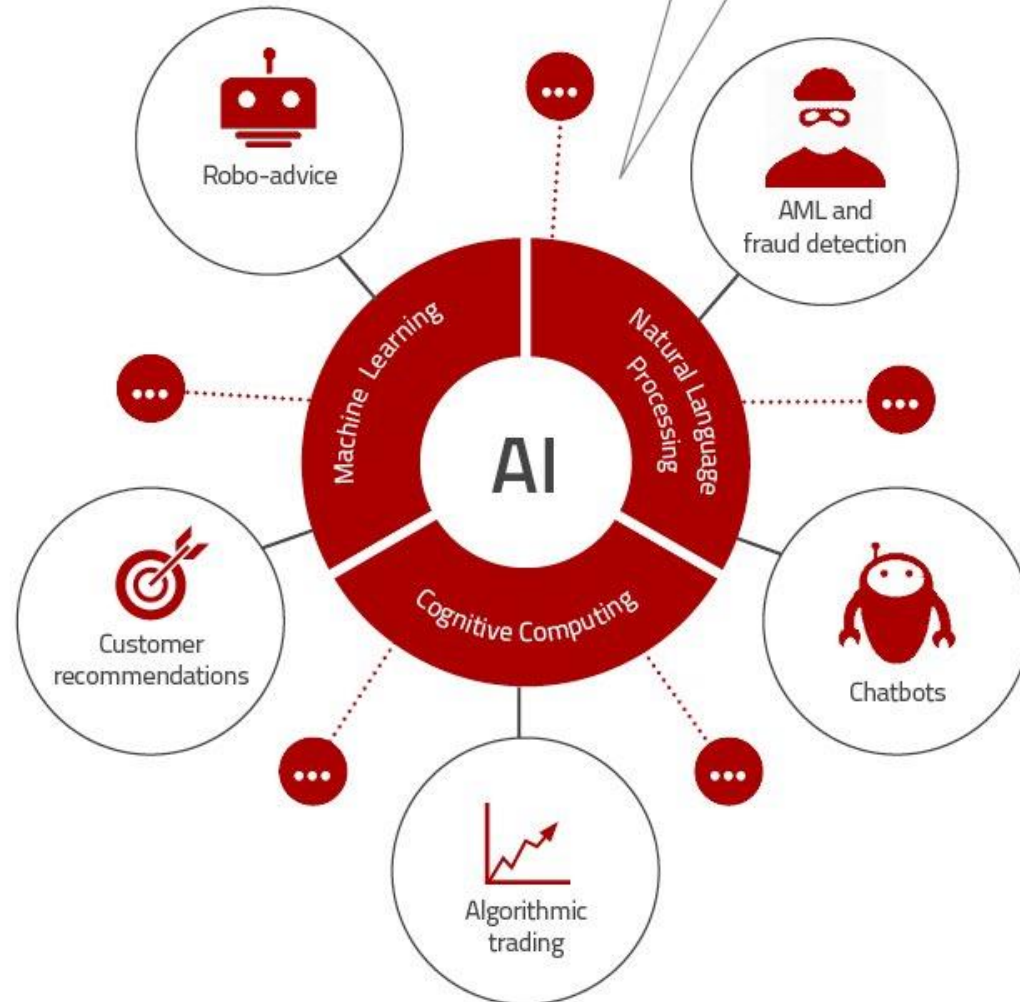


Pragmatic Analysis

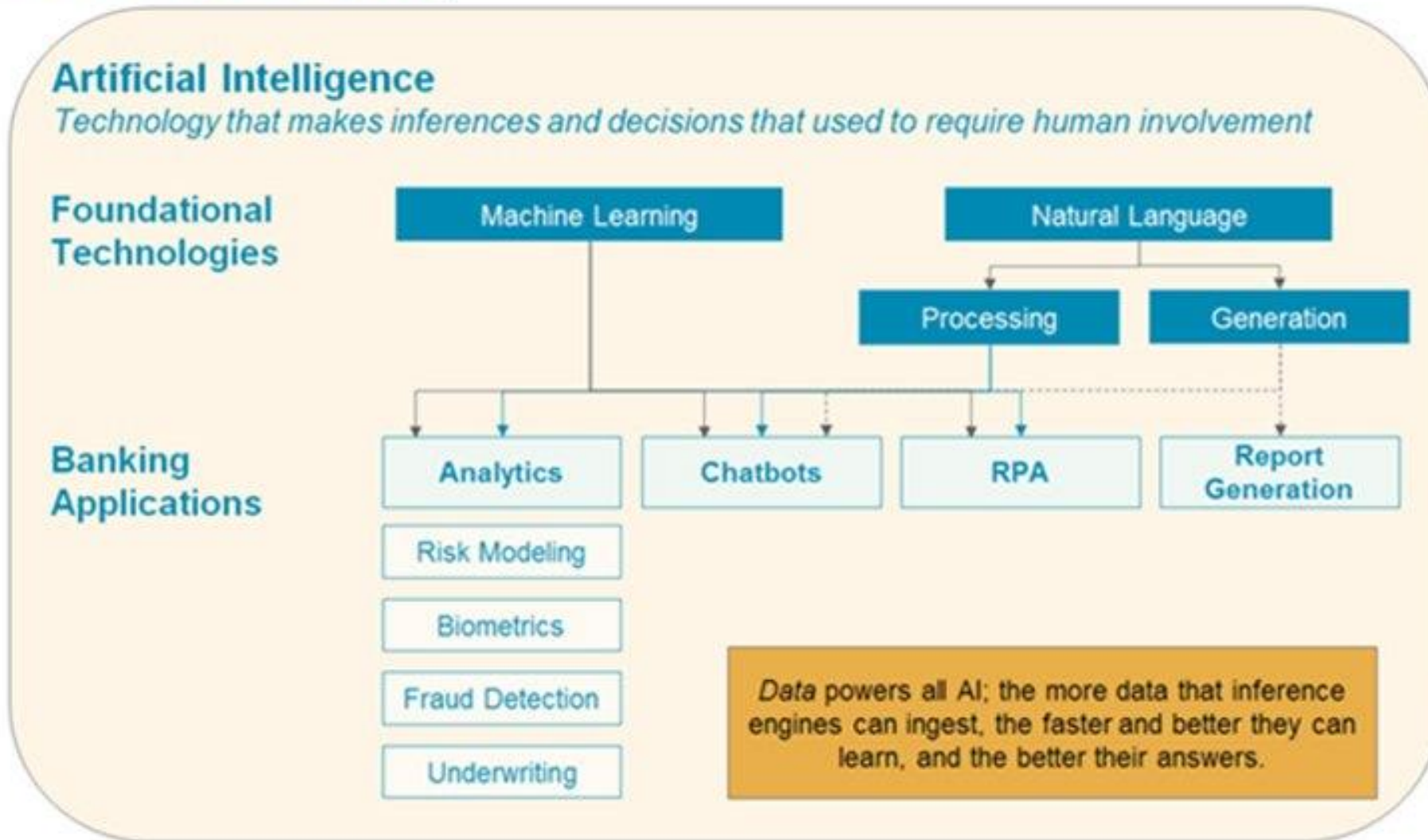


Pragmatic Analysis

AI applications in financial services



SOURCE: Efma © September 2017 The Financial Brand



Source: Celent analysis. Arrows represent influence of source on target.

Social robots in banking



RoboDoc: an interactive social robot for research assistantship.

