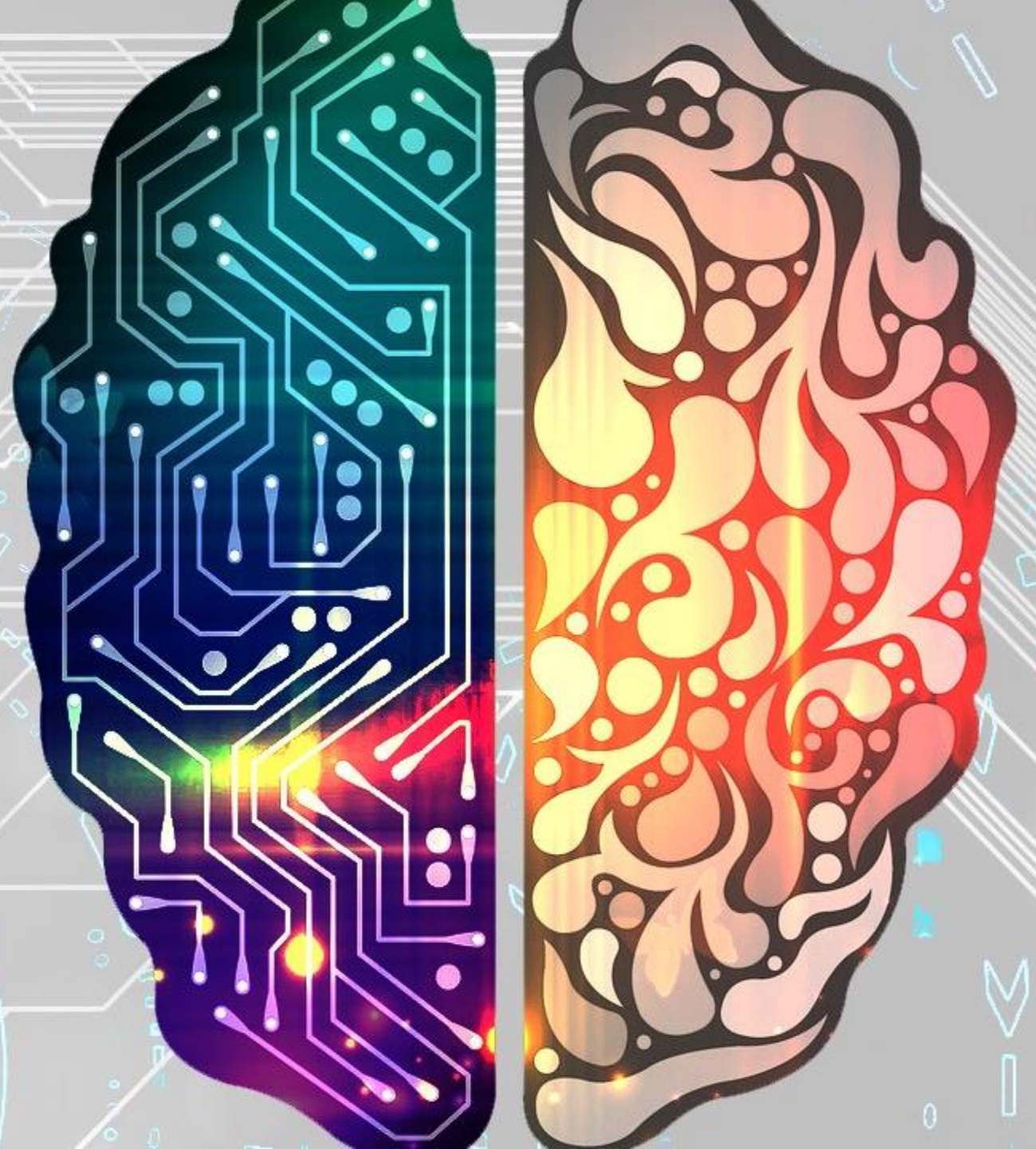


Machine Learning
use-cases across
different
Industries



- ❖ Introduction to ML
- ❖ History of ML
- ❖ Example and usage
- ❖ Classification or methods
- ❖ Steps for Defining and validating of ML use cases
- ❖ Use case



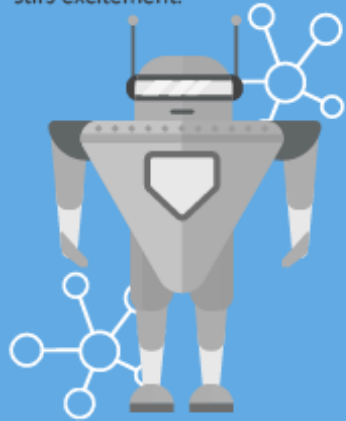


Machine Learning

Machine Learning algorithms enable computers to learn from data, and even improve themselves, without being explicitly programmed.

ARTIFICIAL INTELLIGENCE

Early artificial intelligence stirs excitement.



MACHINE LEARNING

Machine learning begins to flourish.



DEEP LEARNING

Deep learning breakthroughs drive AI boom.

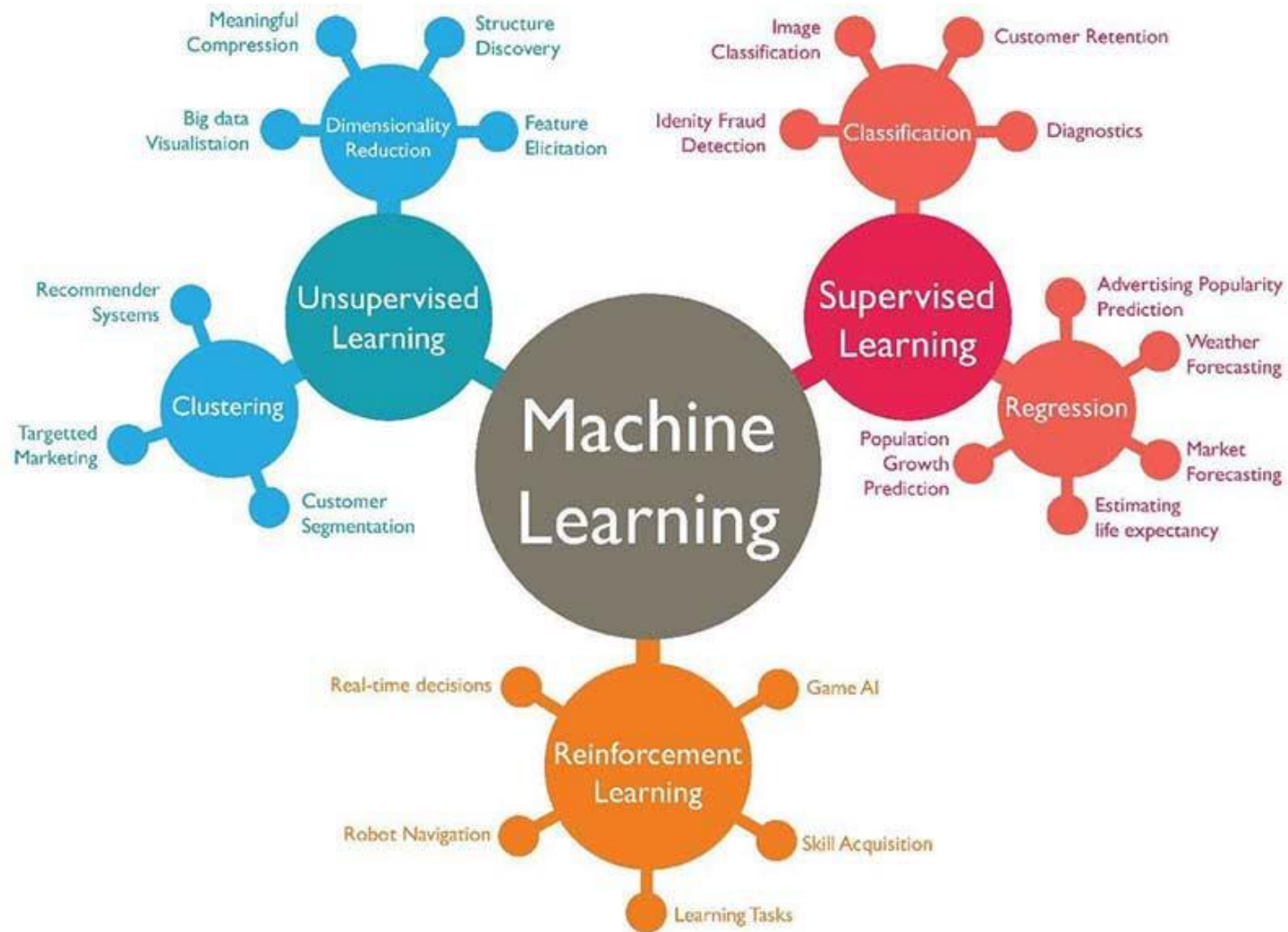


1950's 1960's 1970's 1980's 1990's 2000's 2010's

Since an early flush of optimism in the 1950's, smaller subsets of artificial intelligence - first machine learning, then deep learning, a subset of machine learning - have created ever larger disruptions.



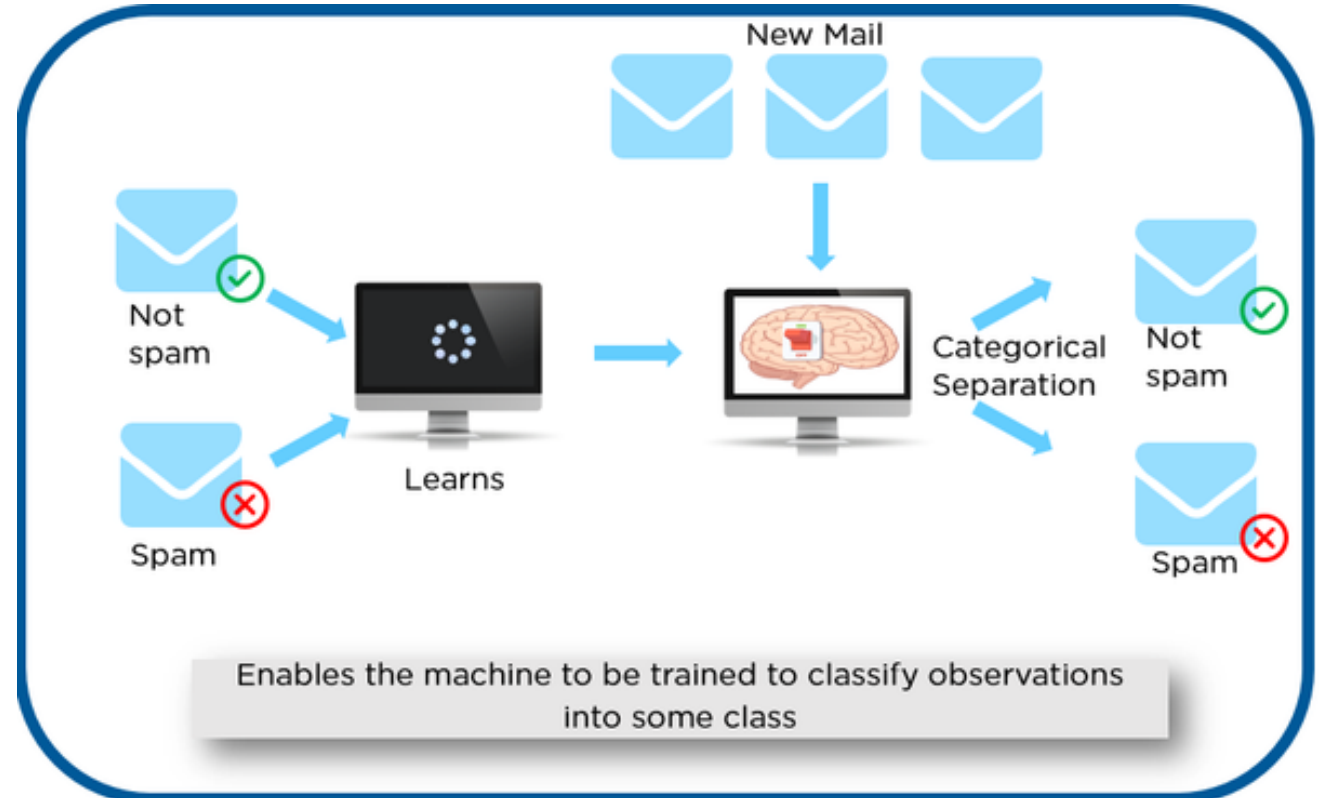
Classification of Algorithms



Supervised Learning Algorithm

Types of Supervised learning

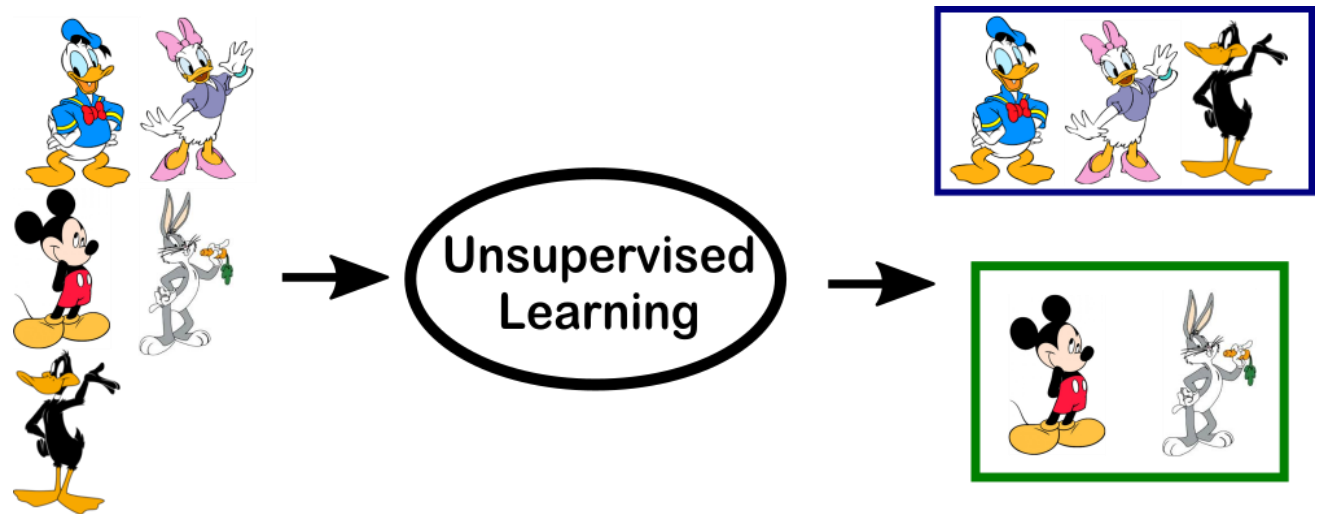
- Classification
- Regression



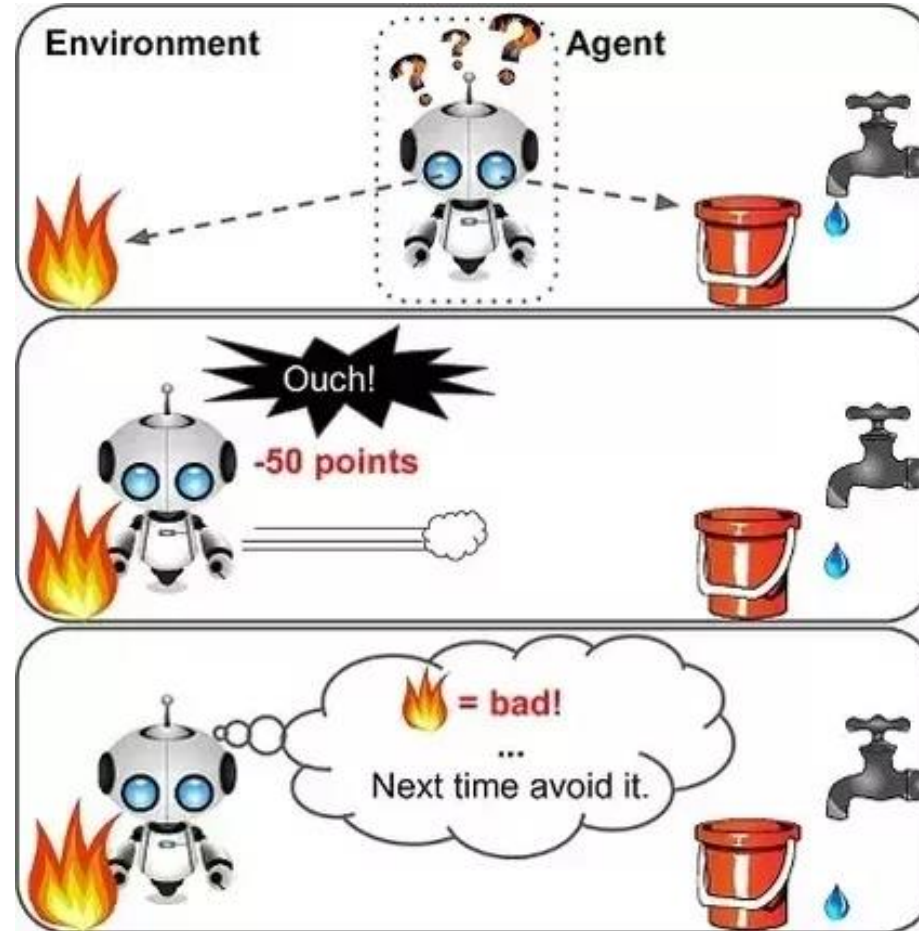
Unsupervised Learning Algorithm

Types of Unsupervised learning

- Clustering
- Association

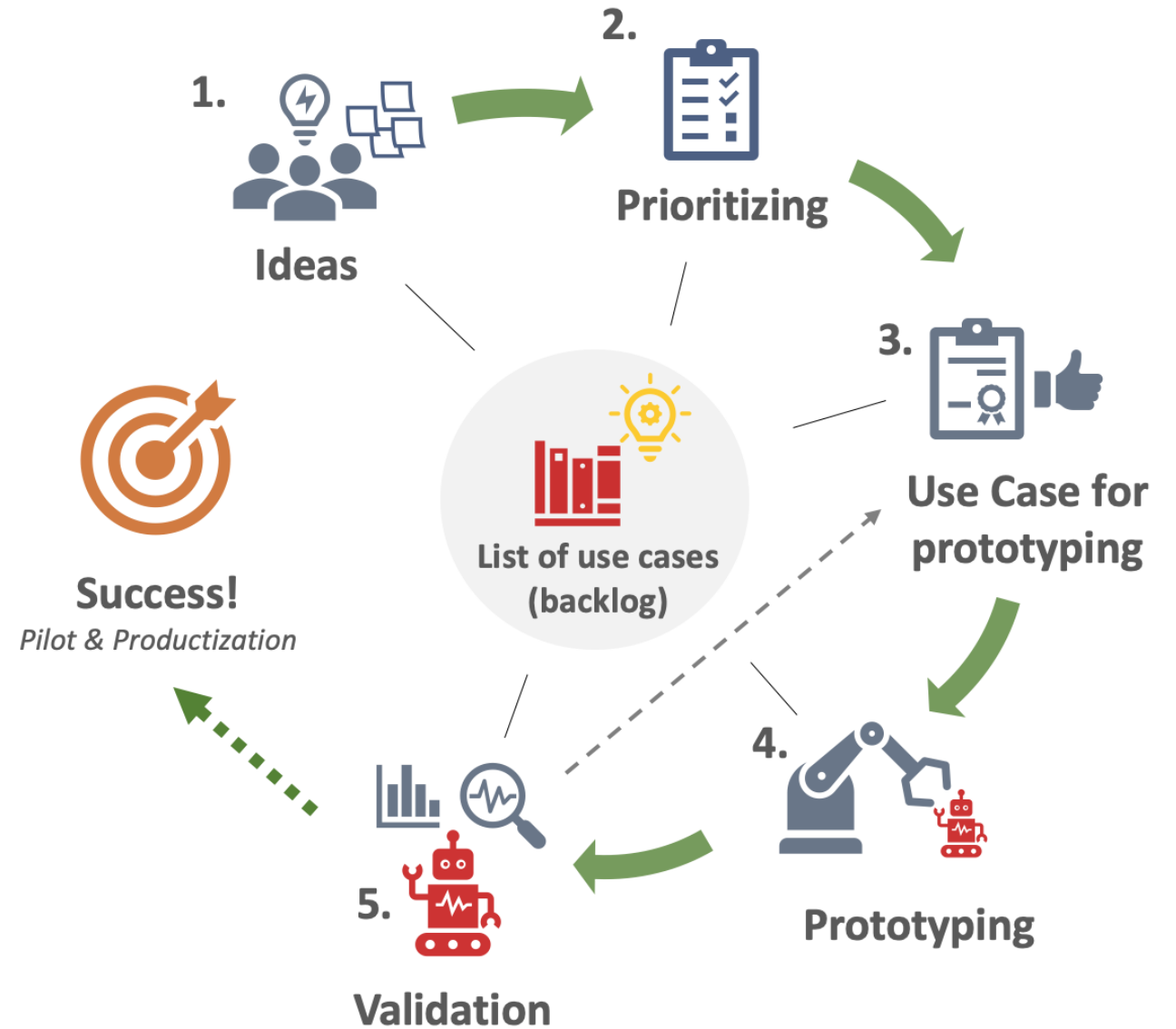


Reinforcement Learning Algorithm



- 1 Observe
- 2 Select action using policy
- 3 Action!
- 4 Get reward or penalty
- 5 Update policy (learning step)
- 6 Iterate until an optimal policy is found

Steps for Defining and validation of ML use cases



TOP 10 MACHINE LEARNING APPLICATIONS AND USE CASES IN OUR DAILY LIFE

Machine learning uses algorithms and statistical models to perform specific tasks without human interaction

- Voice Assistant
- Personalized Marketing
- Fraud Detection
- Self-Driving Cars
- Transportation Optimization
- Predicting Behavior
- Healthcare
- Process Automation
- Chatbots
- Physical Security

Machine

Learning

Applications



Retail



Healthcare

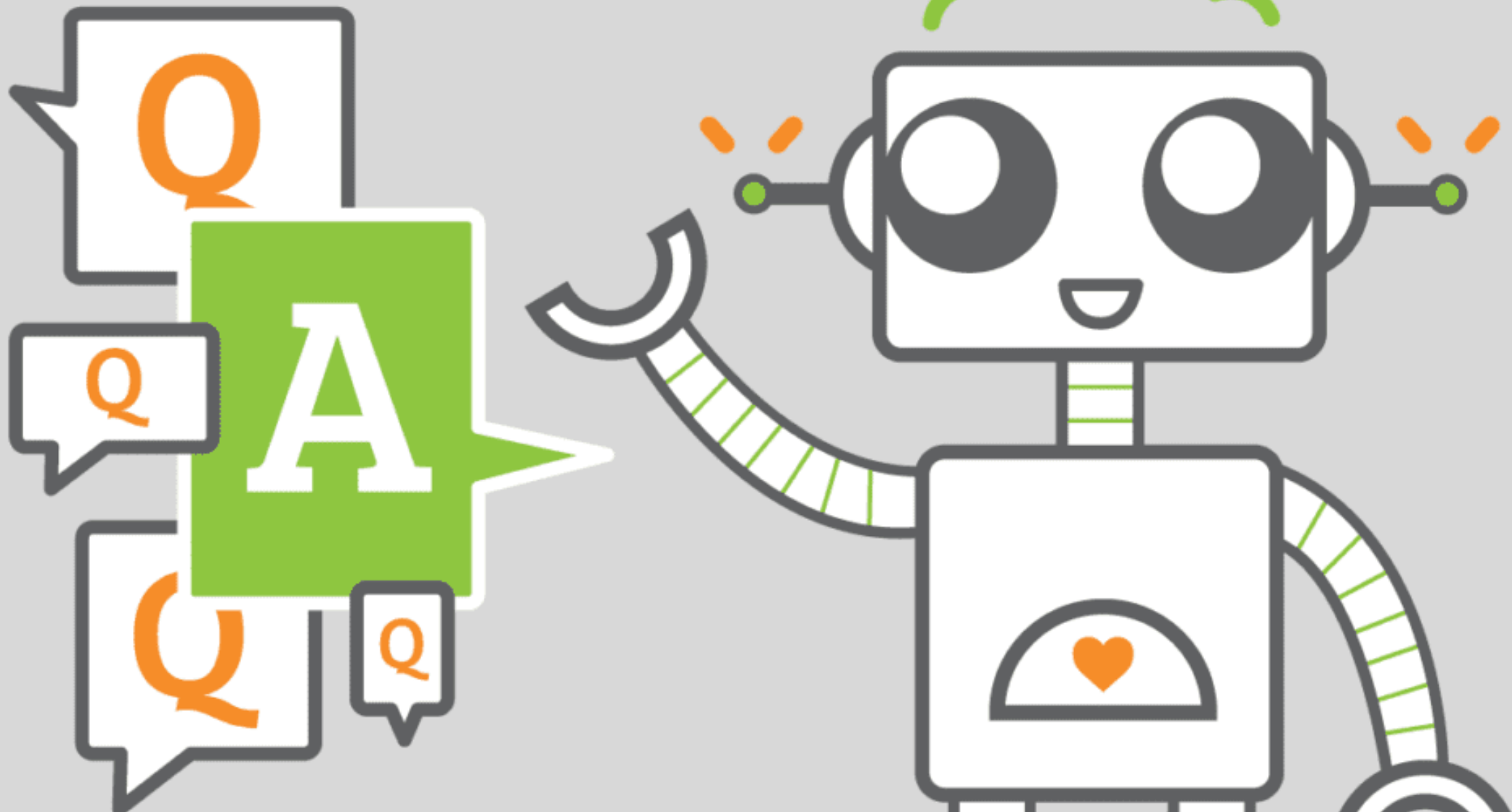


Finance



Media

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THANKS

