





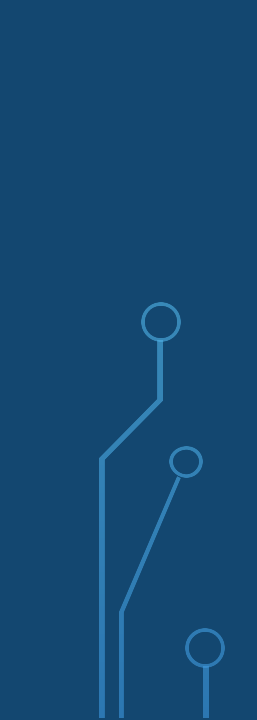
AI DEMO

BATTERY RECOGNIZER

PRESENTED BY WING CHAN



AGENDA

- AI vs Machine Learning vs Deep Learning
 - Azure Cognitive Services
 - Demo
 - Q&A
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AI = THINKING MACHINE?



AI VS MACHINE LEARNING VS DEEP LEARNING

Artificial Intelligence

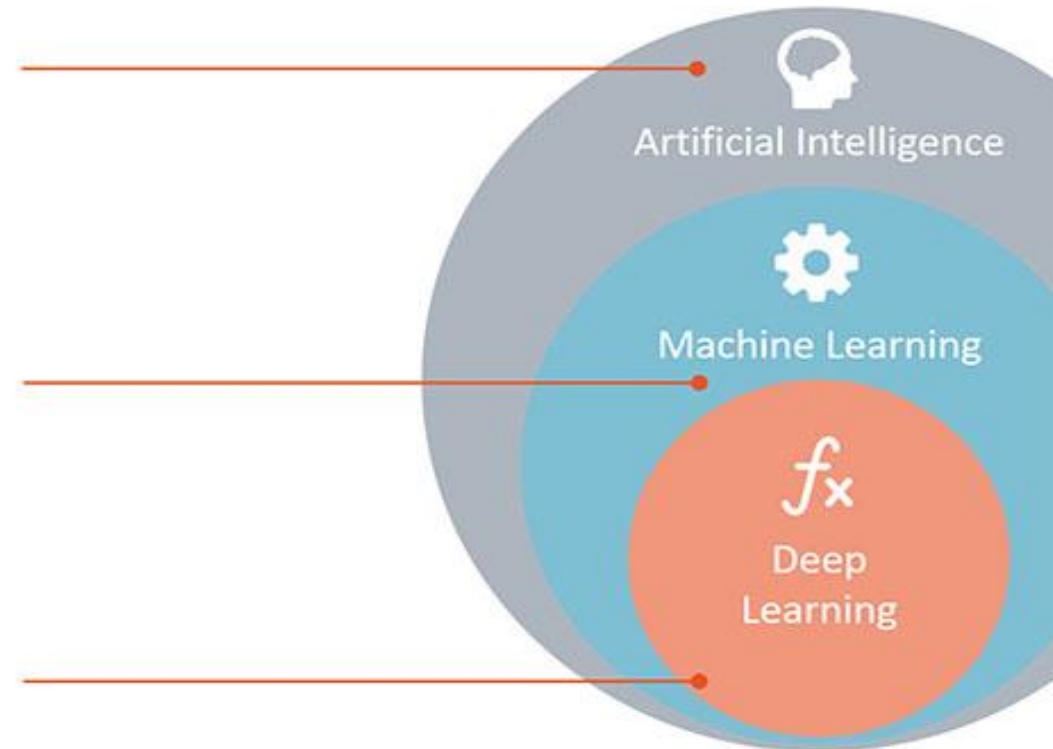
Any technique which enables computers to mimic human behavior.

Machine Learning

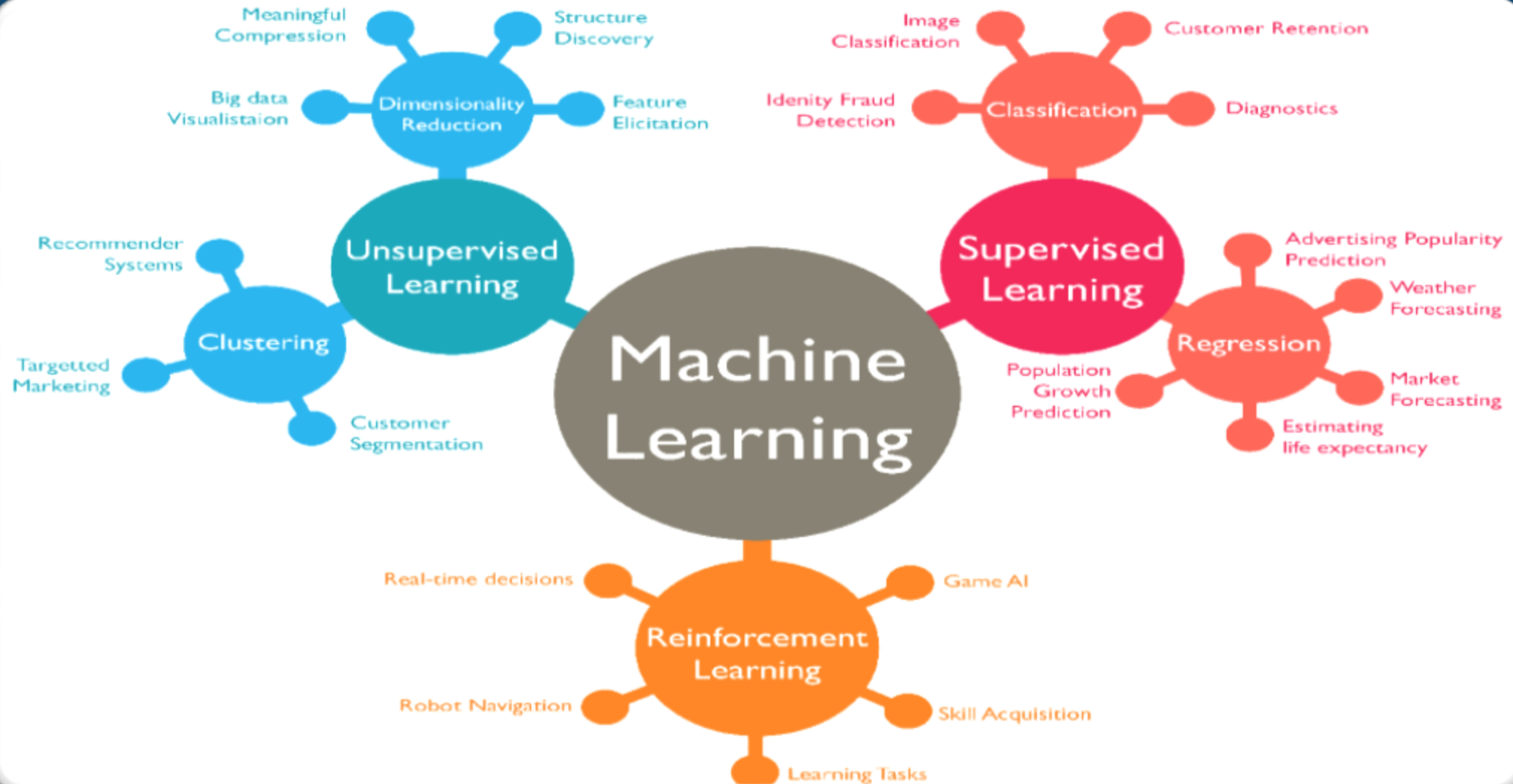
Subset of AI techniques which use statistical methods to enable machines to improve with experiences.

Deep Learning

Subset of ML which make the computation of multi-layer neural networks feasible.

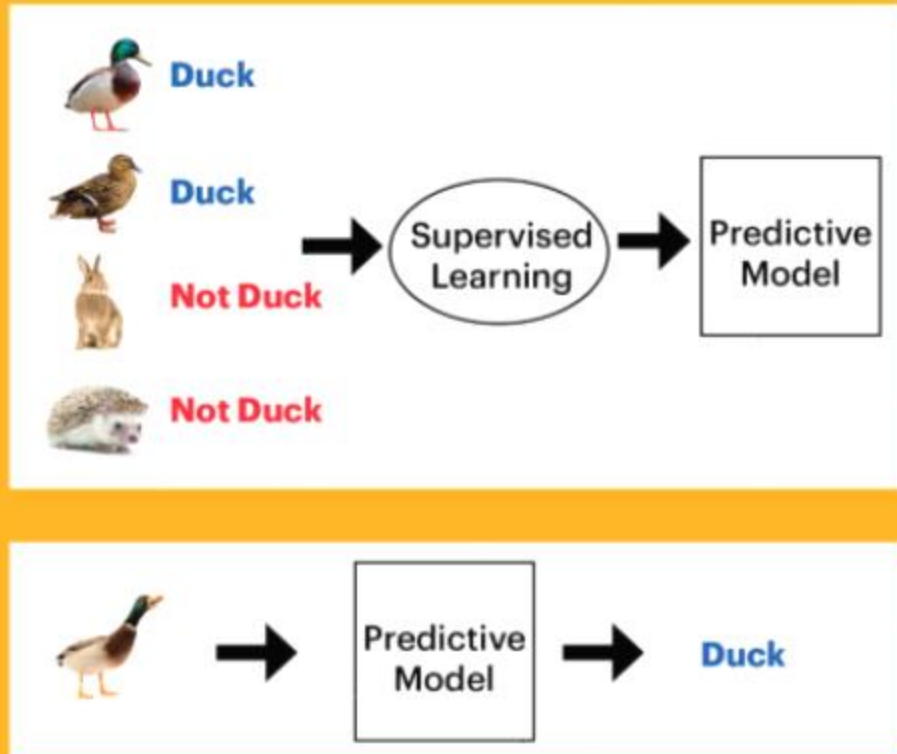


MACHINE LEARNING

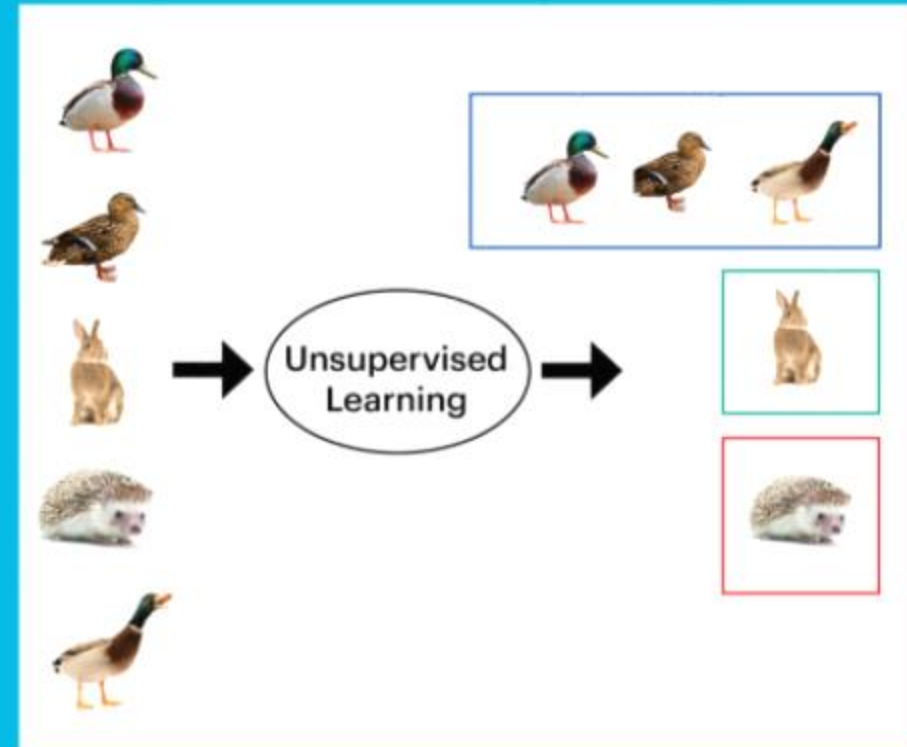


SUPERVISED VS UNSUPERVISED

Supervised Learning (Classification Algorithm)



Unsupervised Learning (Clustering Algorithm)



REINFORCEMENT LEARNING



MACHINE LEARNING VS DEEP LEARNING

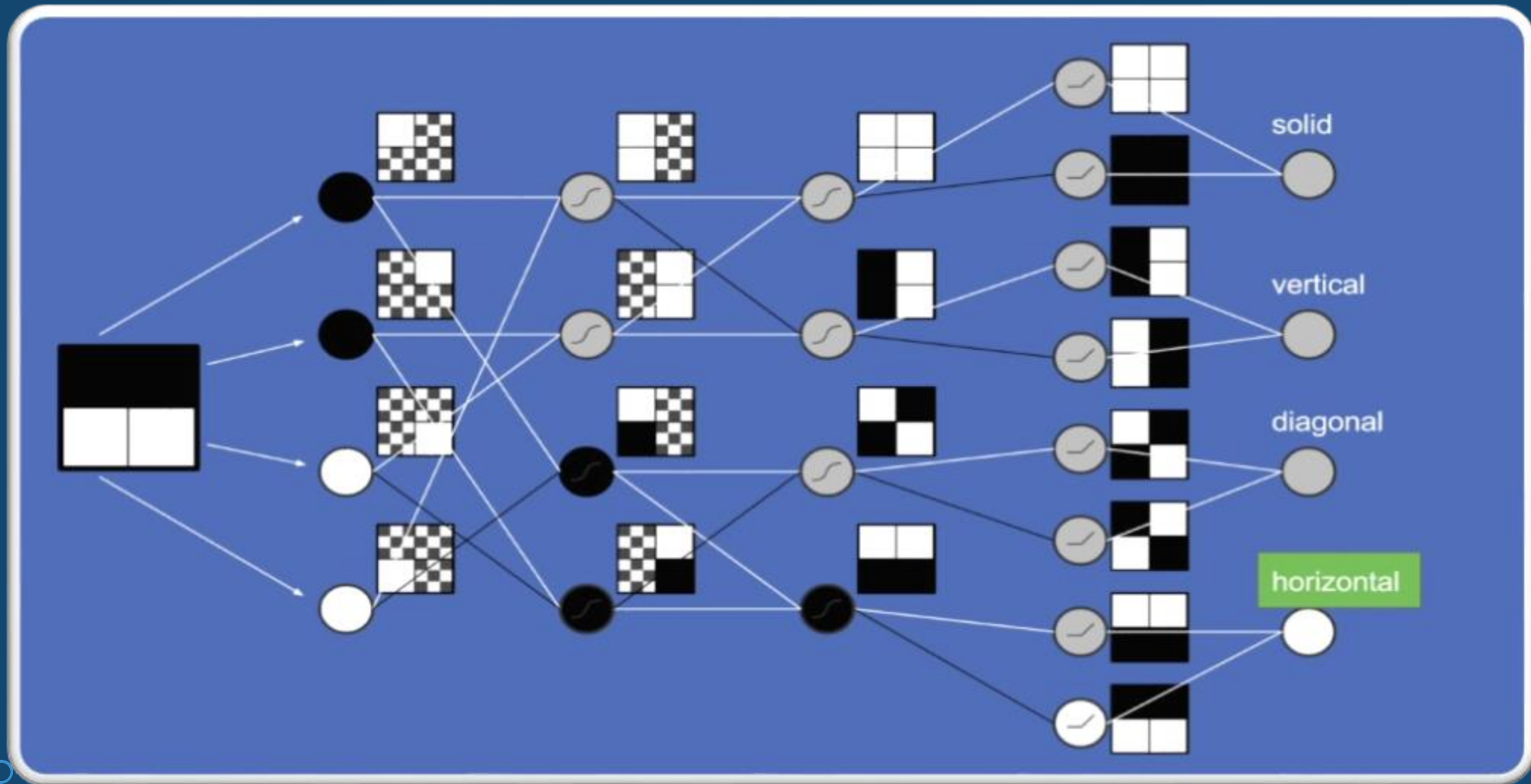
Machine Learning



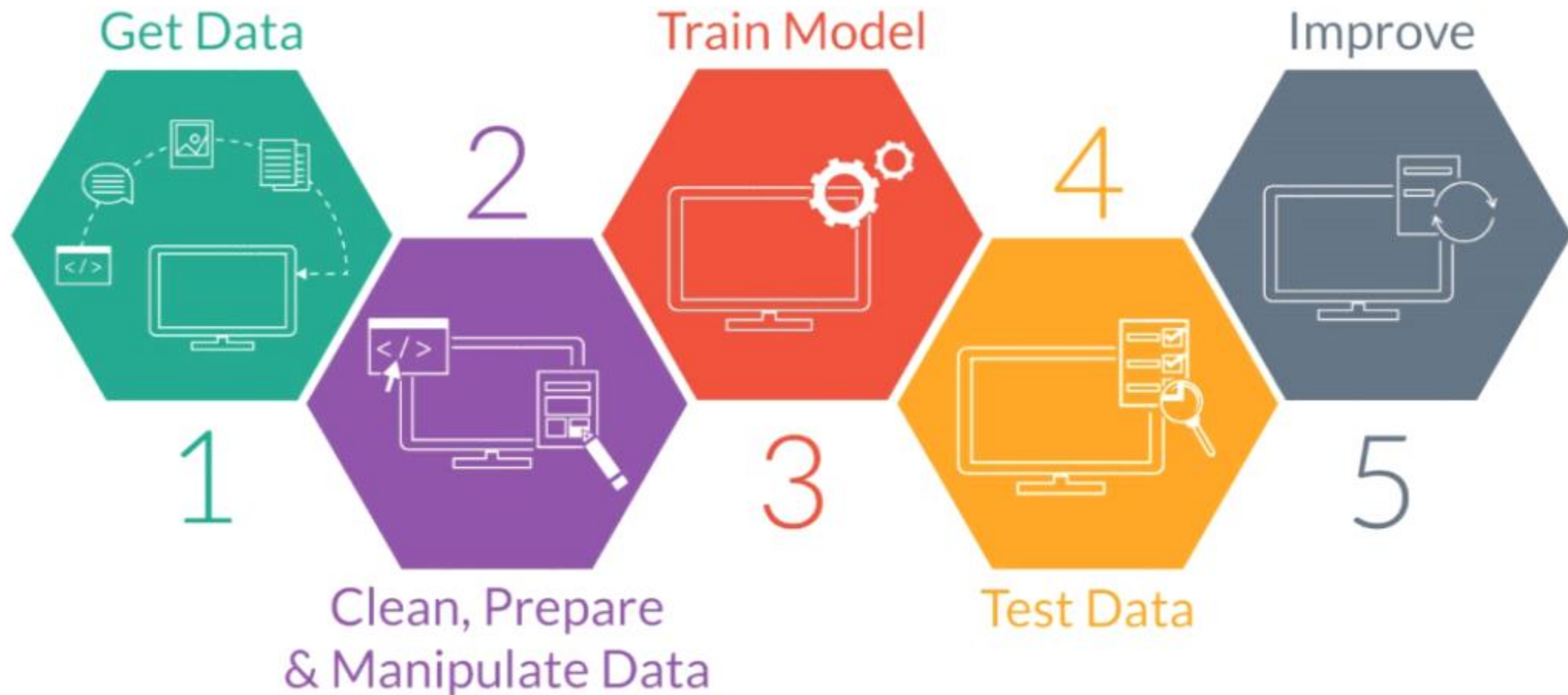
Deep Learning



NEURAL NETWORK IN DEEP LEARNING



MACHINE LEARNING WORKFLOW



AZURE COGNITIVE SERVICES

Give your apps a human side



Vision

Computer Vision
Content Moderator
Emotion
Face
Video
Video Indexer
Custom Vision Service



Speech

Bing Speech
Speaker Recognition
Custom Speech Service



Language

Bing Spell Check
Language Understanding
Linguistic Analysis
Translator Text & Speech
Web Language Model
Text Analytics



Knowledge

Academic Knowledge
Entity Linking

Knowledge Exploration
Recommendations
QnA Maker
Custom Decision Service



Search

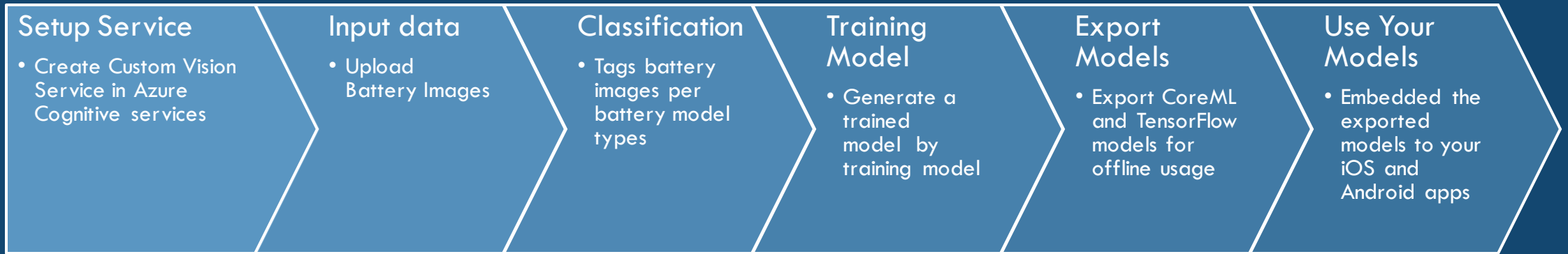
Bing Autosuggest
Bing Image Search
Bing News Search
Bing Video Search
Bing Web Search
Bing Custom Search



Labs

Project Prague (gesture)
Cuzco (events)
Johannesburg (routing)
Nanjing (Isochrones)
Abu Dhabi (distance matrix)
Wollongong (location)
Enduring Freedom (just kidding 😊)

DEMO





QUESTIONS?

Demo App Source code

<https://goo.gl/AcY2Qd>