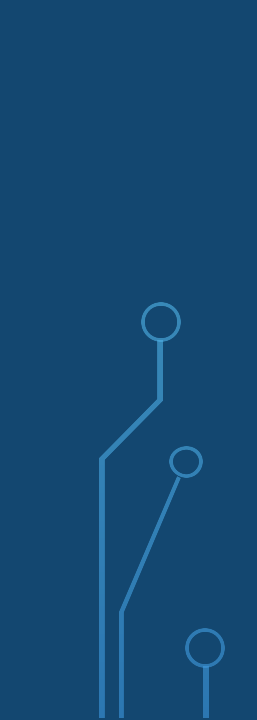# AI DEMO
BATTERY RECOGNIZER

PRESENTED BY WING CHAN

AGENDA

- AI vs Machine Learning vs Deep Learning

- Azure Cognitive Services

- Demo

- Q&A

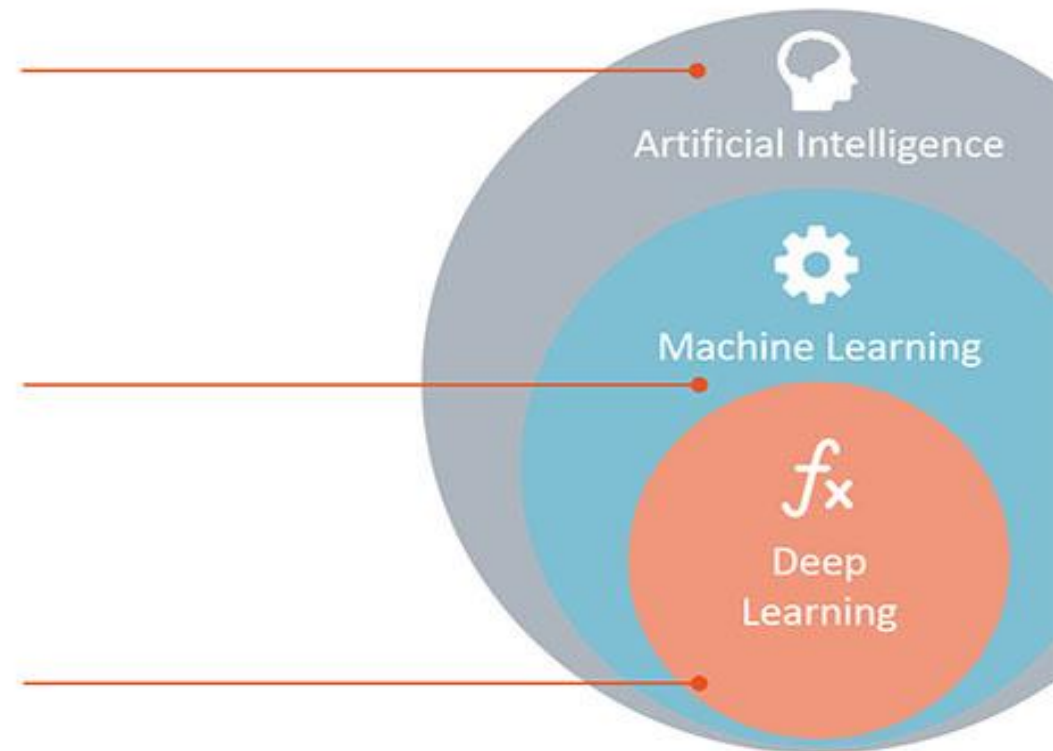# AI VS MACHINE LEARNING VS DEEP LEARNING

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.

Artificial Intelligence

Machine Learning

Deep Learning

AZURE COGNITIVE SERVICES

Vision

Image-processing algorithms to smartly identify, caption, index, and moderate your pictures and videos.

Speech

Convert spoken audio into text, use voice for verification, or add speaker recognition to your app.

Knowledge

Map complex information and data in order to solve tasks such as intelligent recommendations and semantic search.
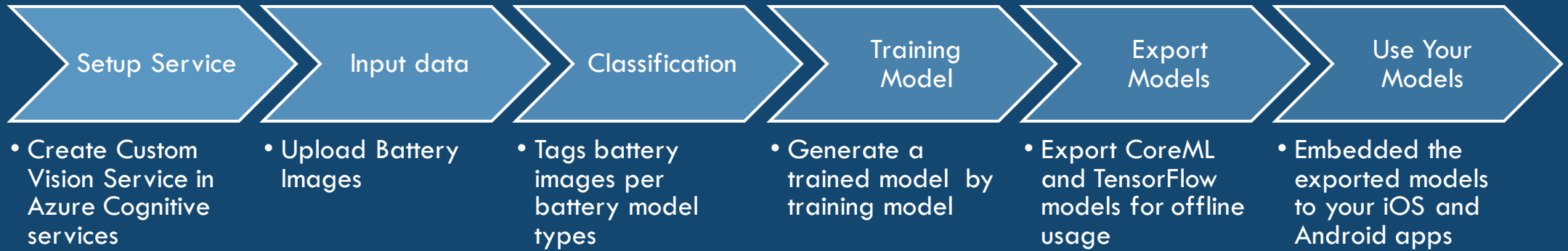
Language

Allow your apps to process natural language with pre-built scripts, evaluate sentiment and learn how to recognize what users want.

Search

Add Bing Search APIs to your apps and harness the ability to comb billions of webpages, images, videos, and news with a single API call.

DEMO

Setup Service	Input data	Classification	Training Model	Export Models	Use Your Models
• Create Custom Vision Service in Azure Cognitive services	• Upload Battery Images	• Tags battery images per battery model types	• Generate a trained model by training model	• Export CoreML and TensorFlow models for offline usage	• Embedded the exported models to your iOS and Android apps

QUESTIONS?

Demo App Source code

https://goo.gl/AcY2Qd