

Our Sponsors

GOLD



COMMUNITY

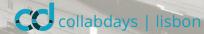












Julian Sharp

Dynamics 365 Power Platform, and Azure Solutions Architect

Microsoft Certified Trainer

Business Applications MVP

Speaker

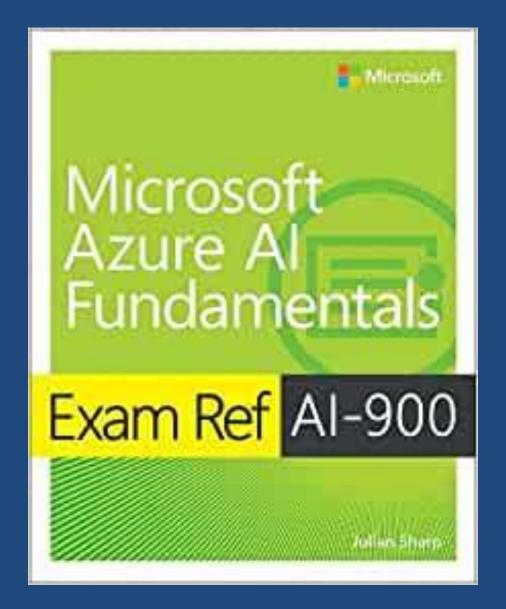


https://www.linkedin.com/in/juliansharp





My latest book



Session Agenda

What is Al

Al Builder

Using Al Builder in apps and flows

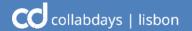
Azure Cognitive Services

Azure Machine Learning

Demos

Questions

What is Al



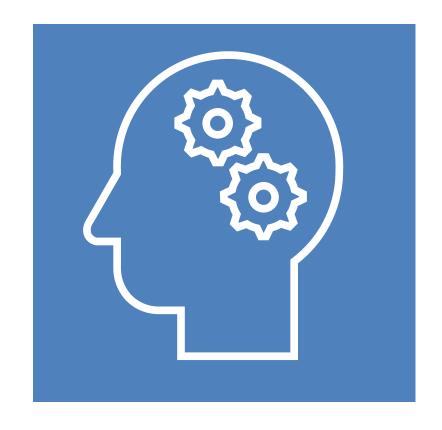
What is Al?



"Artificial Intelligence is computers doing things that we would normally think of as intelligent in humans."

Machine Learning

- Foundation of modern Al
- Build and train AI models
- Creating predictive models by finding relationships in data
- Requires lots of data

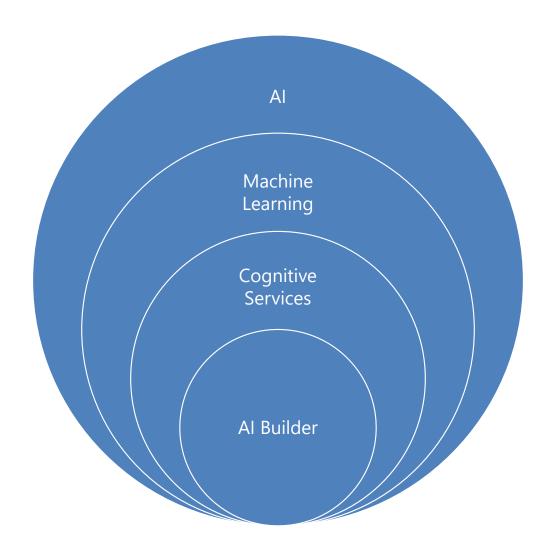


Options for AI with Power Platform

- Azure Machine Learning
- Azure Cognitive Services
- Al Builder

- Lobe.ai
- Azure Bot Service
- Power Virtual Agents

Comparing Al options





Al Builder





VISION

LANGUAGE



PREDICTION (REGRESSION)

Al for Dataverse

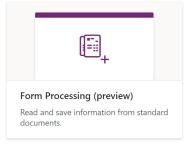
Al Builder

- Model Types
- Prebuilt Models

Enhance your business with AI

Add intelligence to your business. Create tailored AI models to automate processes and find insights. Learn more

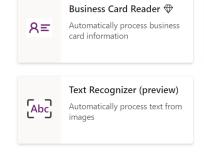
Refine a model for your business needs

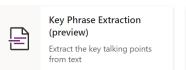






Get straight to productivity











Al Builder Pre-Built Models



Business card reader



Text recognition



Category classification



Key phrase extraction



Language detection



Sentiment analysis



Receipt processing



Text translation

Al Builder Model Types



Prediction



Form processing



Object detection

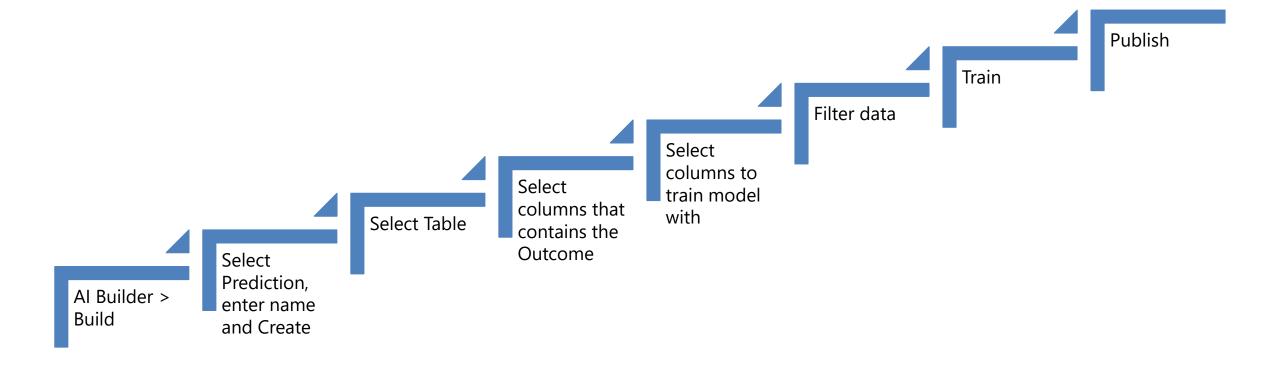


Category classification



Entity extraction

Al Builder Process



Consumption of Al Builder



Power Apps can use Al Builder



Power Automate can use Al Builder

Consumption of Al Builder

Build

Build and train model in Al Builder

Consume

Canvas apps

Power Automate

Enhanced user experience

Vision, Language, and Predictions in data and in applications



Demo

Al Builder in a canvas app

https://docs.microsoft.com/ai-builder/formula-bar



Azure Cognitive Services

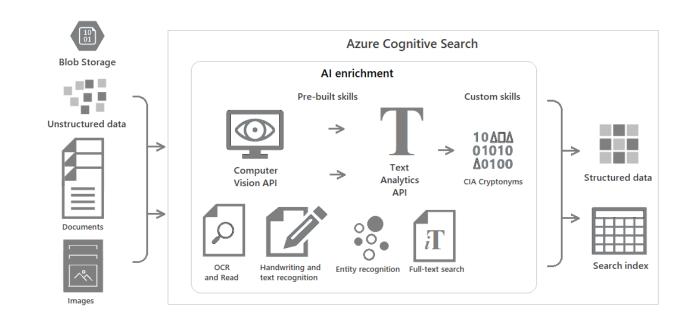
Azure Cognitive Services

- Pre-Built Artificial intelligence
- Common Al requirements
- Models trained with data by Microsoft
- · Add AI more quickly to apps with less expertise
- · REST APIs



Azure Cognitive Services

- Text analysis
- Computer vision
- Video
- Speech
- Natural language understanding
- Intelligent search

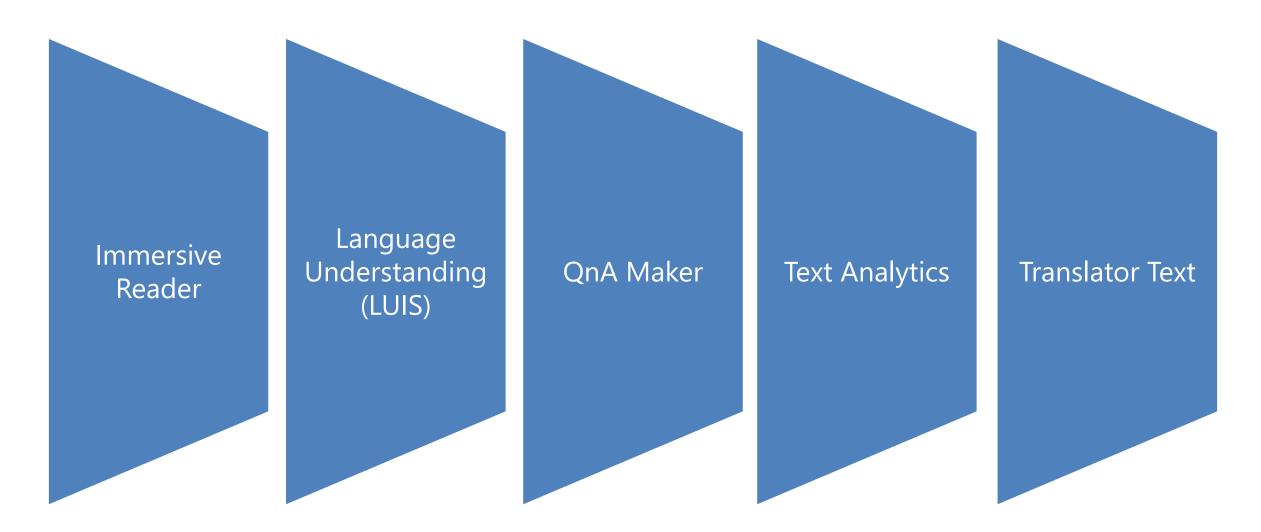


Decision

- Anomaly Detection
- Content Moderator
 - · Image
 - Text
 - Video
 - · Review tool
- Personalizer

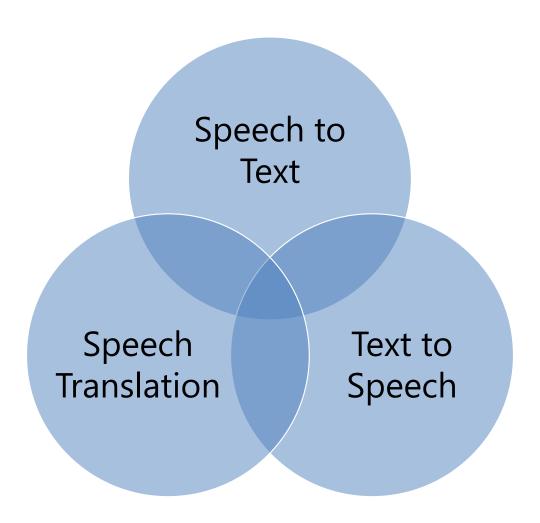


Language

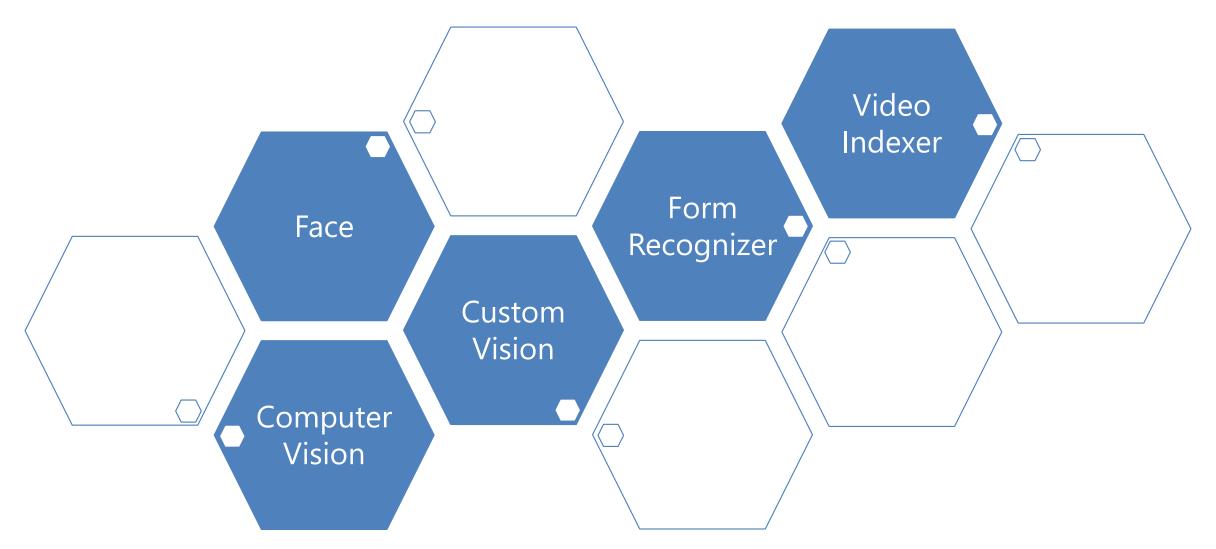




Speech



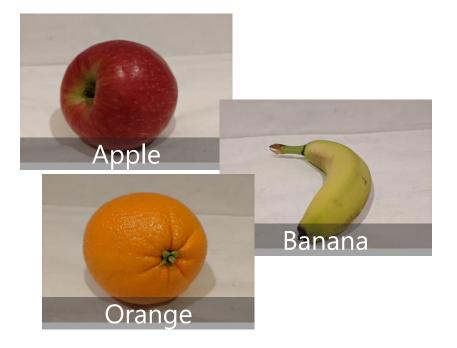
Vision



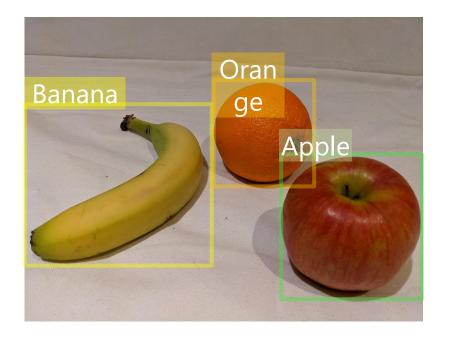


Custom Vision

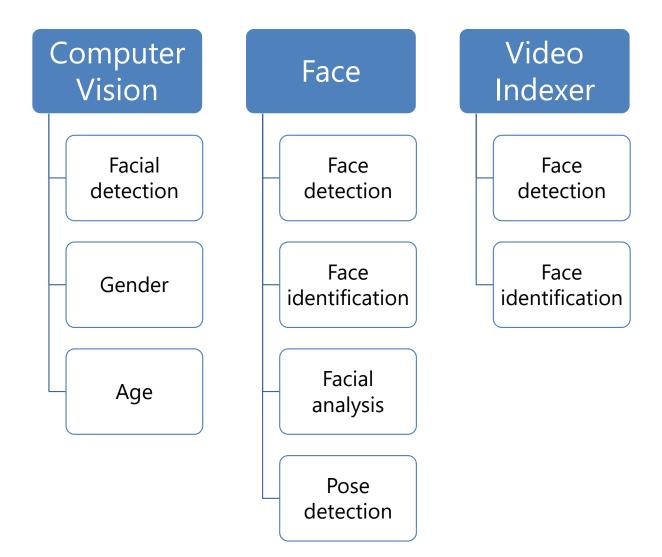
Image Classification



Object Detection



Computer Vision vs Face vs Video Indexer



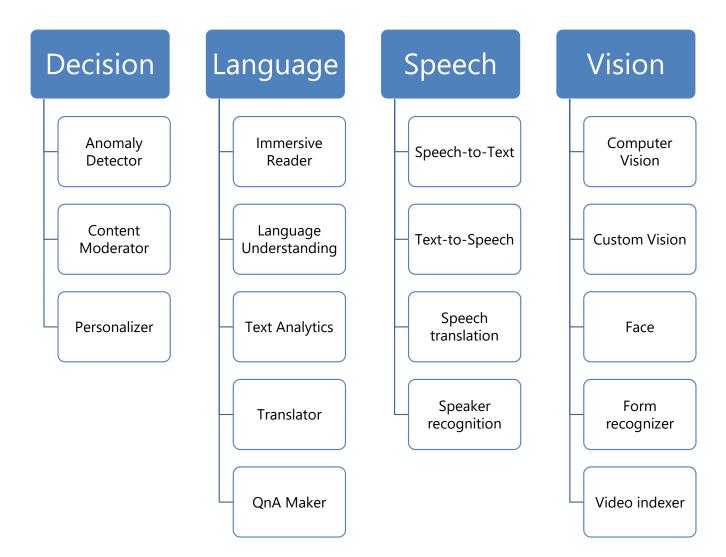
Form Recognizer

- Extract information from scanned forms in image or PDF format
 - Train a custom model using your own forms
 - Use the pre-trained receipt model
- Models perform semantic recognition of form fields not just text extraction

d Traders
7
\$0.90
\$1.60
\$2.50
\$0.25

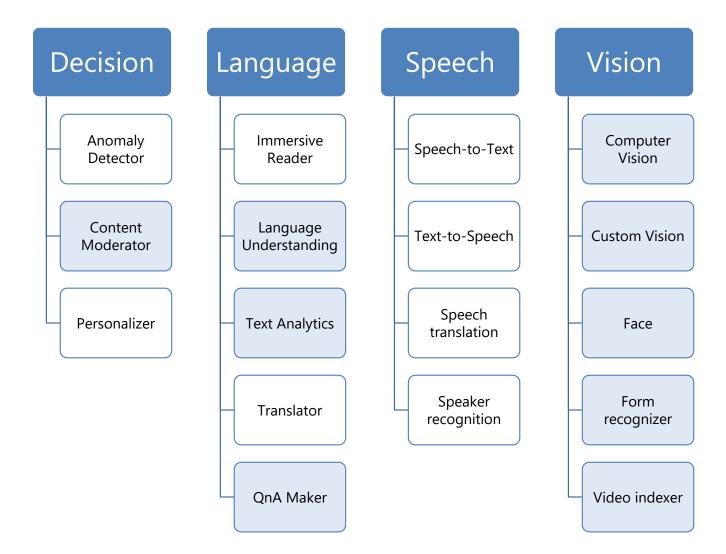


Cognitive Services



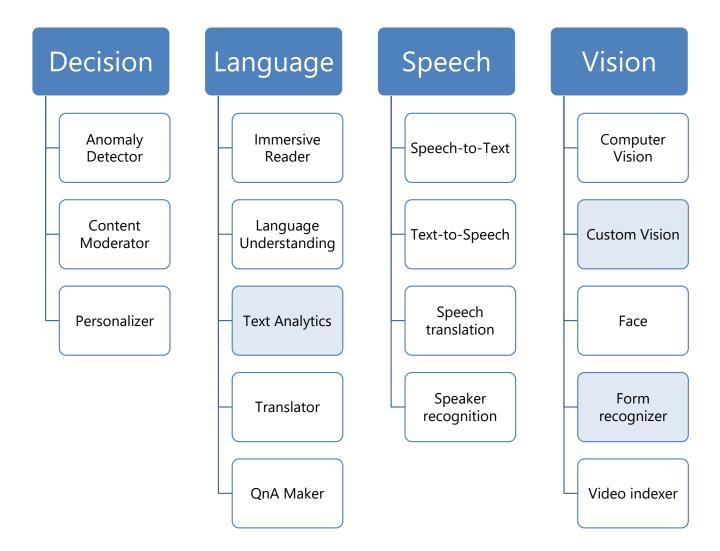


Connectors





Al Builder



Demo

Cognitive Services



Azure Machine Learning

Azure Machine Learning

Cloud service

Simplifies tasks

Reduce time to prepare data and train models

Easy to deploy trained model as a web service

Supports containers

Models

Model selection

Feature selection

Model training

Model evaluation

Model management

Choice of tools

SDKs

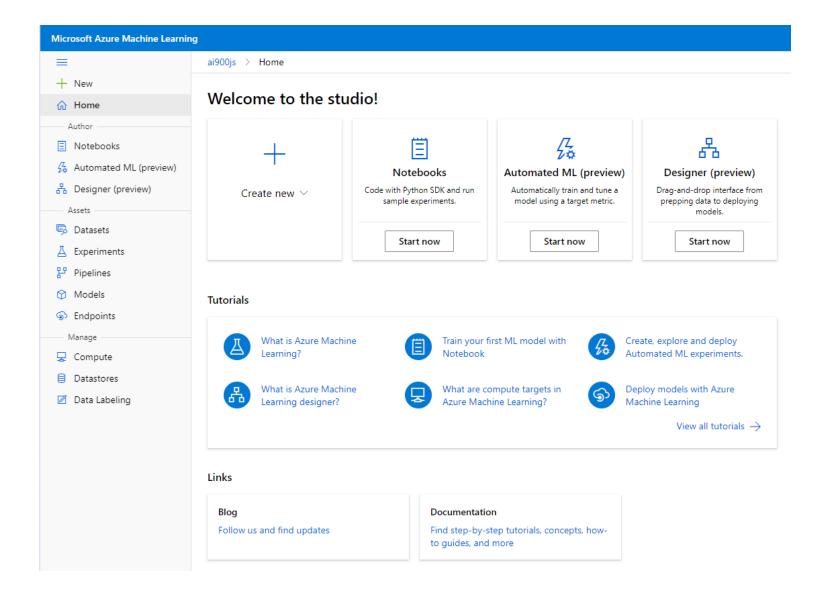
Machine Learning

Designer

Automated ML



Azure Machine Learning Studio





Azure Machine Learning Process

Azure Machine Learning helps you build, train, deploy, and manage your models at cloud scale.



Register data

Reference data from storage to easily access during model training and explore using summary statistics.

Train models

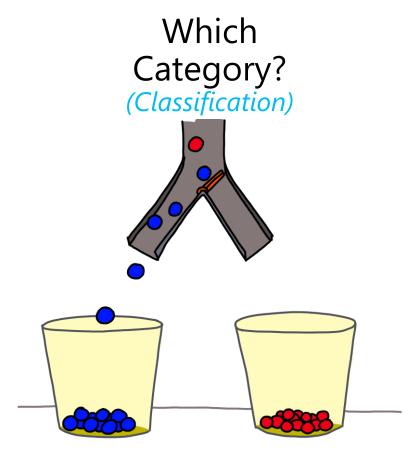
Use machine learning algorithms with training data to create models.

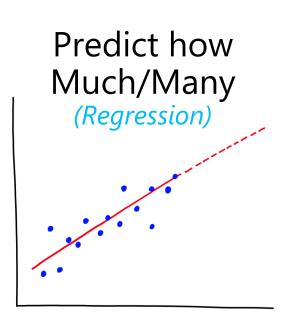
Evaluate models

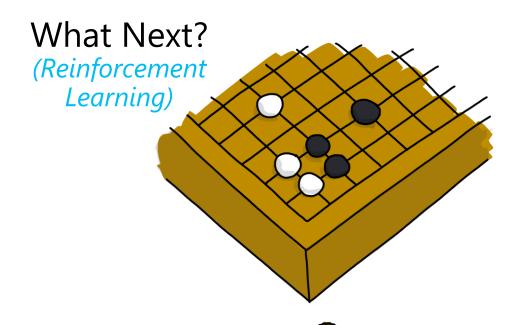
Find the best model using test data.

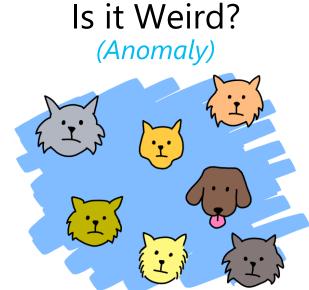
Deploy models

Deploy model as a web service in the Azure cloud, or to IoT Edge devices.

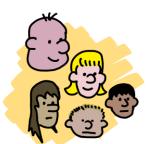


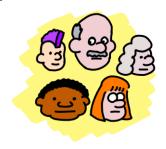








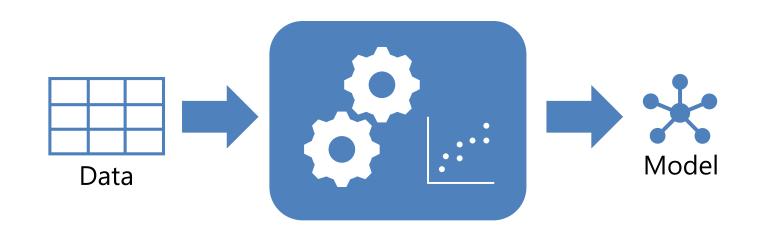






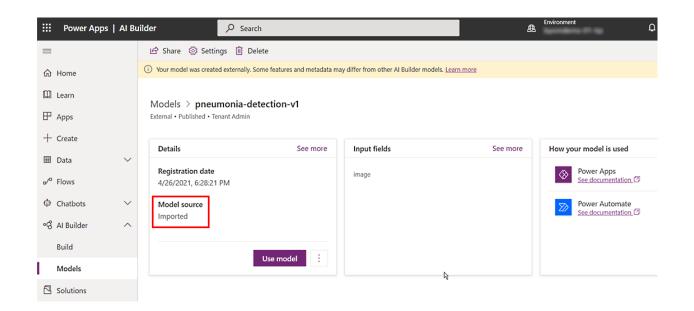
Automated Machine Learning

- Takes the hard work out of machine learning
- · Supply the data and desired model type, and let Azure Machine Learning find the best model



Use ML with Power Platform

- HTTP connector
- Custom connector
- Bring your own Model





Demo

ML with Power Platform

https://github.com/microsoft/PowerApps-Samples/tree/master/ai-builder/BringYourOwnModelTutorial https://docs.microsoft.com/ai-builder/byo-model



Our Sponsors

GOLD



COMMUNITY











