



Modern Solutions with Al Builder

Al in Power Automate

LEAD CONSULTANT

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About Me

- Lead Consultant at Telstra Purple | Sydney | Australia
- Been around Business Software developments for a while
- ❖ APAC-Al Community Co-organizer
- The AI Podcast Cohost

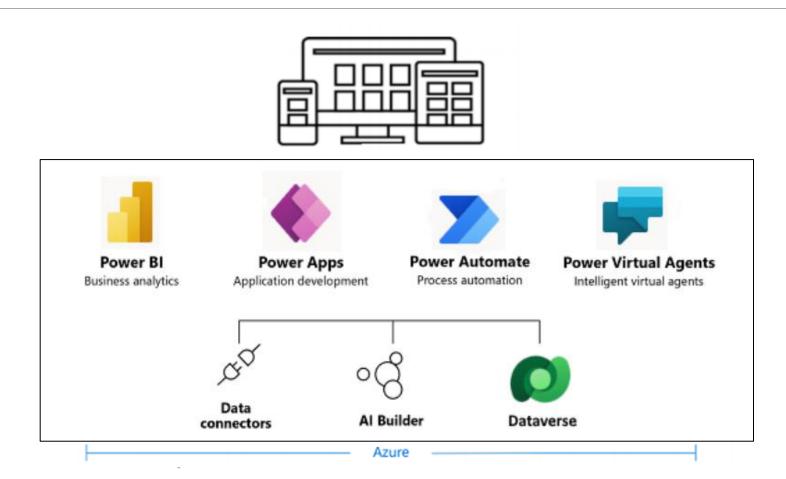
Agenda

- Microsoft Power Platform
- ❖ Al Builder in Power Platform
- ❖ AI (Text, Object, Predictions)

Microsoft Power Platform

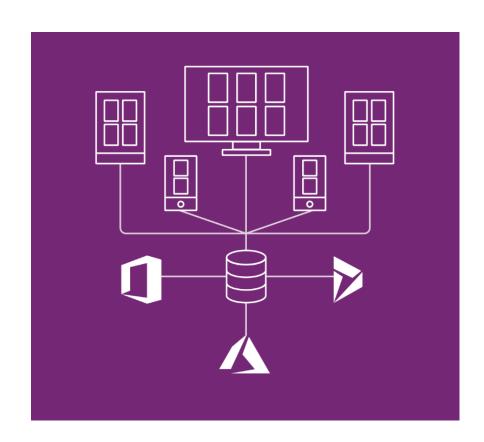
- ❖ A business application platform
 - Easy app building and data insight
- Fundamental change is that data is now coming first
 - Modern businesses are starting with <u>systems of observation and intelligence</u>
 - Data would drive the starting point
 - Bring all your data together into a common data model
 - Ability to integrate with other platform like Salesforce, Workday, SAP, etc.

The Power Platform



Dataverse

- Cloud based managed Container
- ❖ Based on 200 standard business tables
 - Sales, services, Finance, Operations, Marketing, Education, Healthcare, etc
- ❖ Foundation for Dynamics 365 and Power Platform
- Create custom tables and populate them with data using Power Query
- Benefits
 - Easy to manage.
 - Easy to secure
 - Access your Dynamics 365 Data
 - Rich metadata
 - Logic and validation
 - Productivity tools

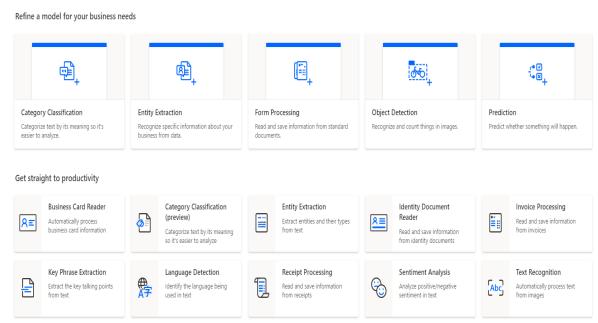




Al Builder

- ❖ Offers pre-built machine learning models that can be added onto either Power Apps or Power Automate
- ❖ Leverages Azure AI and ML technologies
- ❖ Low-code AI capability in the Power Platform
- Customizable for broad range of industries
- ❖ Automate the process and predict the outcome
- ❖ AI Builder is licensed as an add-on to your Power

Apps, Power Automate, or Dynamics 365 license.





Al Model Types

Prebuilt Al Model

- Business Card Reader (Vision API)
- Text Recognition (Vision API)
- Category Classification (Language API)
- Key Phrase Extraction (Language API)
- Language Detection (Language API)
- Sentiment Analysis (Language API);
- Receipt Processing (Vision API)
- Text Translation (Language API)

Custom Al Model

- Category Classification (Language API)
- Entity Extraction (Language API)
- Form Processing (Vision API)
- Object Detection (Vision API)
- Prediction (Decision API)

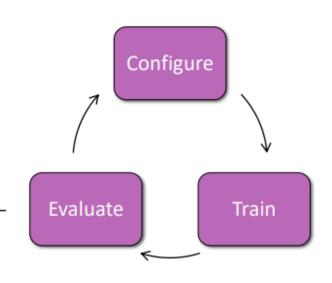


How

- Choose a model based on the business need (Pre-built or Custom)
- Configure your model
- Train Model
 - Result vary depend on the configuration and data provided to train
 - Rapidly train and optimize decision making based on trend changes

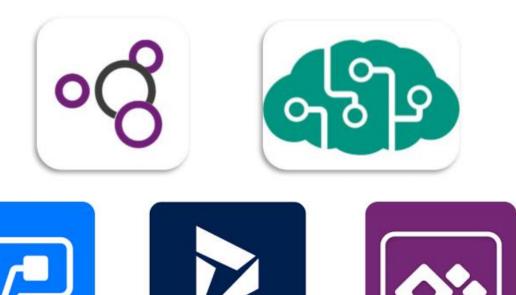
Publish

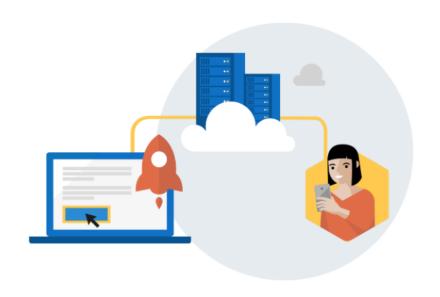
- and feedback
 - Use context to rank options and make the best decisions
- Evaluate (performance and quality)
- Publish and Score Model





Al Builder in Action







Al Builder Benefit



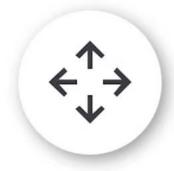
Easy to use

Guided point and click AI applications



Empowering

Al for every skill level



Extensible

Embedded within the Power Platform and Dynamics 365



No need to manage Al infrastructure & complexity



Security, compliance, user roles



What is Al

All is the creation of software that imitates human behaviours and capabilities and the ability to interact intelligently with the user.

Key element:

- ❖ Machine learning The way we "teach" a computer model to make prediction and draw conclusions from data.
- **Anomaly detection** The capability to automatically detect errors or unusual activity in a system.
- **Computer vision** The capability of software to interpret the world visually through cameras, video, and images.
- ❖ Natural language processing The capability for a computer to interpret written or spoken language and respond in kind.
- **Conversational AI** The capability of a software "agent" to participate in a conversation



Behind the scenes of Al Builder

❖ A collection of Artificial intelligence APIs













Vision

From faces to feelings, allow your apps to understand images and video

Speech

Hear and speak to your users by filtering noise, identifying speakers, and understanding intent

Language

Process text and learn how to recognize what users want

Knowledge

Map complex information and data in order to solve specific tasks

Search

Access billions of web pages, images, videos, and news with the power of Bing





Vision



Computer Vision

Distill actionable information from images



Video Indexer

Process and extract smart insights from videos



Face

Detect, identify, analyze, organize, tag faces in photos, and even recognize emotions



Content Moderator

Machine-assisted moderation of text and images, augmented with human review tools



Custom Vision

Customizable web service that learns to recognize specific content in imagery





Speech



Use speech to identify and verify



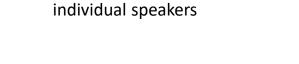


Translator Speech

Easily conduct real-time speech translation with a simple REST API call

Custom Speech

Overcome speech recognition barriers like speaking style, background noise, and vocabulary







Unified Speech service

Unified speech service for speech-to-text (general and custom speech models), text-to-speech (general and custom voice models) and speech translation (general and custom translator)

Bing Speech

Convert speech to text and back again to understand user intent





Language



Text Analytics

Detect sentiment, key phrases, language, and extract top entities from your text



Bing Spell Check

Detect and correct spelling mistakes within your app



Translator Text

Easily perform speech and text translation



Language Understanding

Teach your apps to understand commands from your users

To Know More



- Tutorials: https://docs.microsoft.com/en-gb/ai-builder/
- Al Platform: https://azure.microsoft.com/en-us/overview/ai-platform/
- * AI School: https://www.microsoft.com/en-us/ai/ai-school
- Al Lab: https://www.microsoft.com/en-us/ai/ai-lab
- ❖ AI in Power Automate: https://docs.microsoft.com/en-us/ai-builder/use-in-flow-overview
- Al in Power App: https://docs.microsoft.com/en-us/powerapps/use-ai-builder



Figure: QR Code for Feedback





Figure: QR Code for SSW Rewards

