

Al in your Power Platform Environment

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Agenda



OVERVIEW OF AI BUILDER



DOCUMENT PROCESSING DEMO & LIVE BUILD



DRIVER'S LICENSE DEMO



OBJECT DETECTION



OVERVIEW OF AZURE AI SERVICES



FINAL THOUGHTS

4

Kylie Kiser

5x Microsoft Business Applications MVP

Solution Architect, Dynamics 365 CE at RSM Canada

10+ Years working with Dynamics and the Power Platform

Washington, DC User Group Chapter Leader

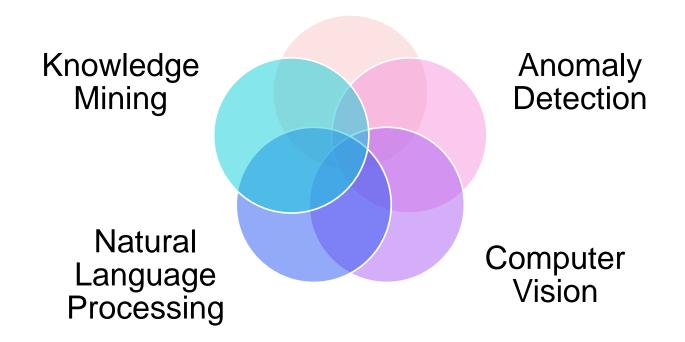
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Overview

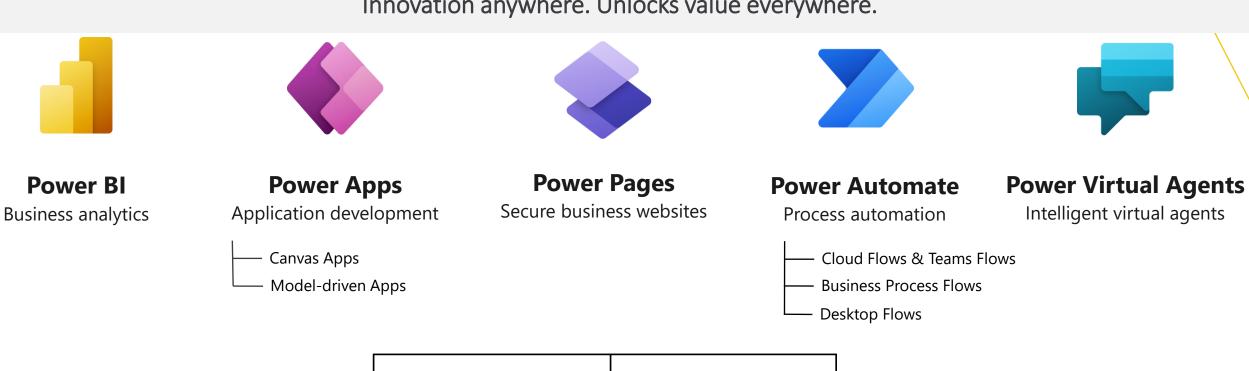
Key Types of Al Machine Learning



Microsoft Power Platform

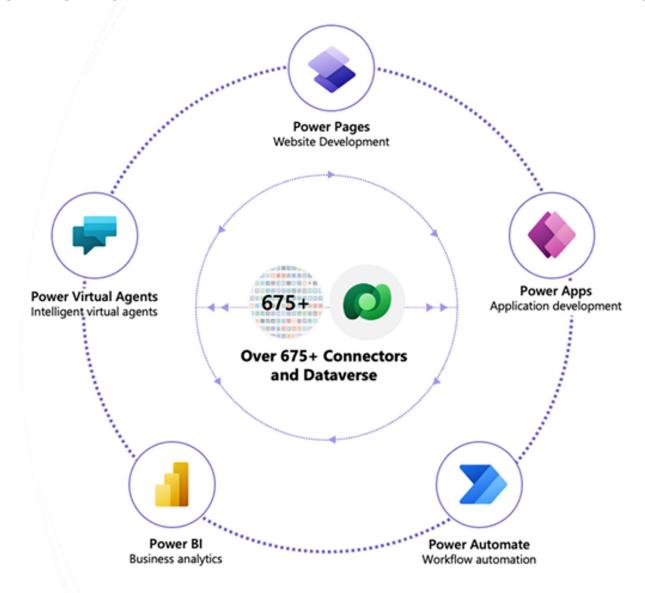
connectors

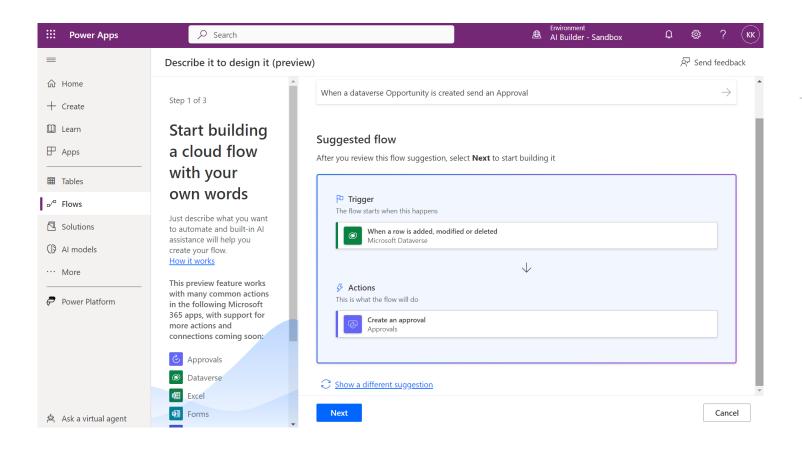
The low-code platform that spans Office 365, Azure, Dynamics 365, and standalone applications Innovation anywhere. Unlocks value everywhere.





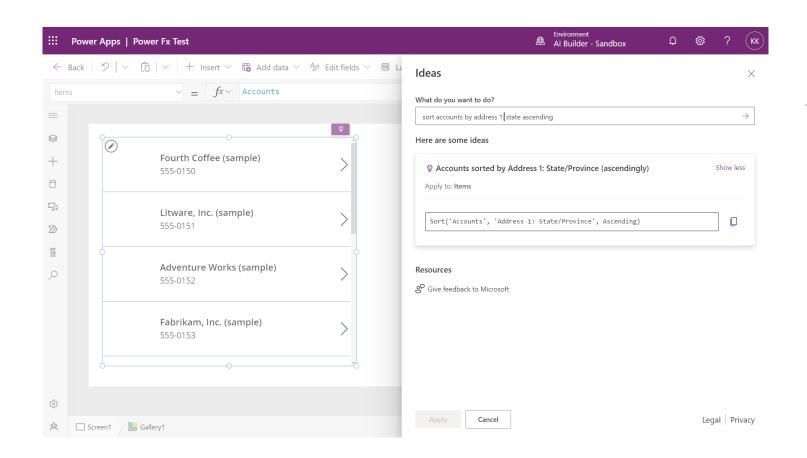
Powerful alone. Even better together.





Using AI to Build in the Power Platform

Power Automate Describe it to Design it (Preview)



Using AI to Build in the Power Platform

POWER APP POWER FX IDEAS

Al Builder

Overview

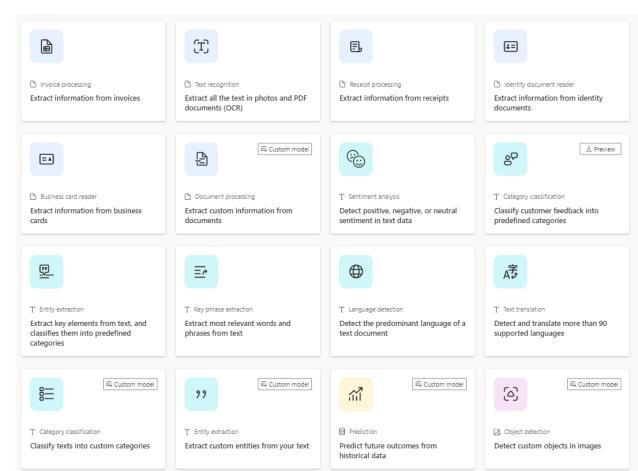
Part of the maker portal that allows the creation of Al models

All point-and-click, no coding needed

Prebuilt models available or custom

Can be integrated with Power Apps or Power Automate

Can be refined and trained further after use



Quick Demo

Creating new Al Builder Model

Using pre-built models in Canvas Apps

- Text Recognition
- Sentiment Analysis
- Key Phrase Extraction
- Entity Extraction
- Language Detection
- Text Translation

All available to use in Power Apps or Flow with no training! Plus, it's Low-Code! (PowerFx)

OpenAl Demo

OpenAl Al Builder Model in a Power App



Create text with Al

Instructions

tell me a sentence that is either a complaint or a praise

Test it out

Response

Sure! Here's a sentence that can be interpreted as either a complaint or a praise, depending on the context: "The service provided was not what I expected, but it exceeded my expectations in terms of efficiency."

Positive



The .Predict function is connected to the onSelect property of the Test it out button. It uses an Al model to create text based on your instructions.

Learn more

Start using AI Builder with sample data

Article • 05/31/2022 • 4 contributors

Don't have any data of your own to create a model? No problem! We've got you covered.

Sample data is available for several AI Builder model types, together with instructions for working with the sample data. Select one of these options to get started:

- Use sample data to do prediction
- Use sample data to do category classification
- Use sample data to do entity extraction
- Use sample data to do object detection
- Use sample data to do document processing

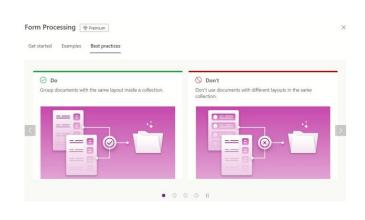
Al Builder Labs

Lab Files

- Prediction
- Category Classification
- Entity Extraction
- Object Detection
- Document Processing

Document Processing

Getting Started with Document Processing



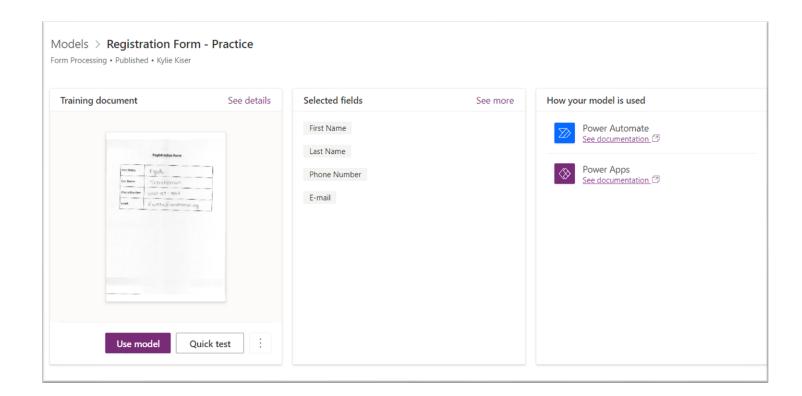
Forms Processing can read data from typed or handwritten forms

You will need at least 5 sample forms with varying data to build

You can collect the same data from multiple form layouts

Data in Tables can be collected

Files should be PDF, PNG, or JPG



Current Limitations

Does not support

- Complex tables
- Fillable PDFs

Files cannot be password protected

Signatures are not supported



Demo Time!

Final Power App

Training the Forms Processing model

Adding to a Power App

Diver's License Demo

Demo Time!

Demo files: https://github.com/microsoft/Federal-Business-Applications/tree/main/demos/ai-builder-drivers-license

Use Power Automate to review a file and extract the data

Display in a Power App



Object Detection

What is Object Detection?



Determine if and how many of a particular object is in an image



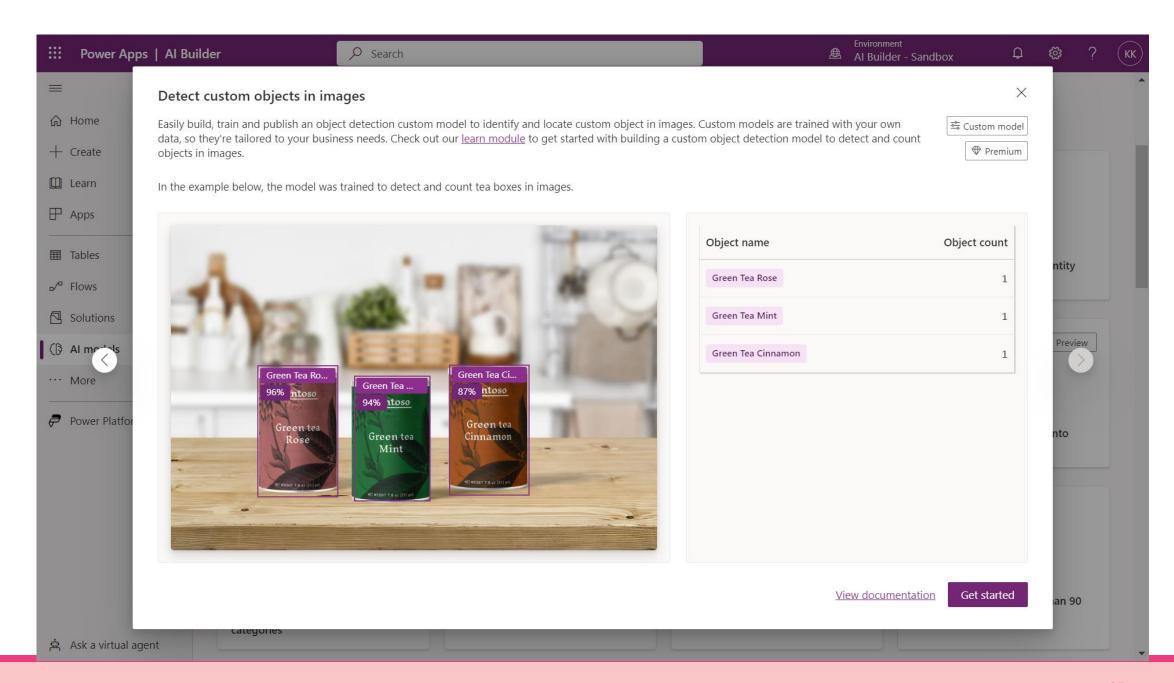
Example: Streamline inventory management for retail

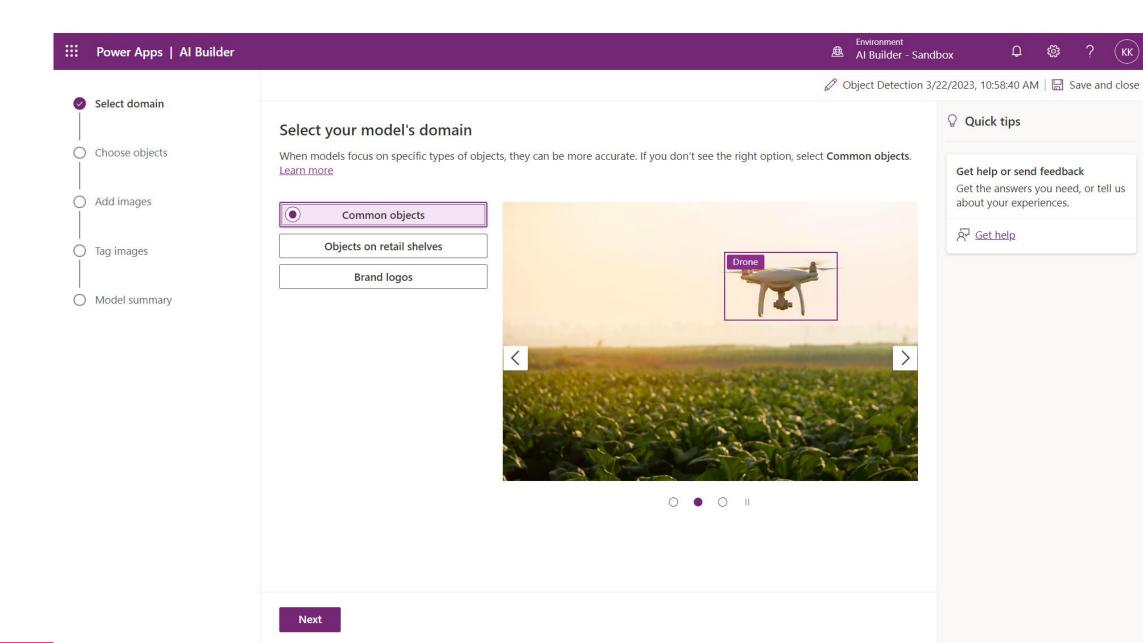


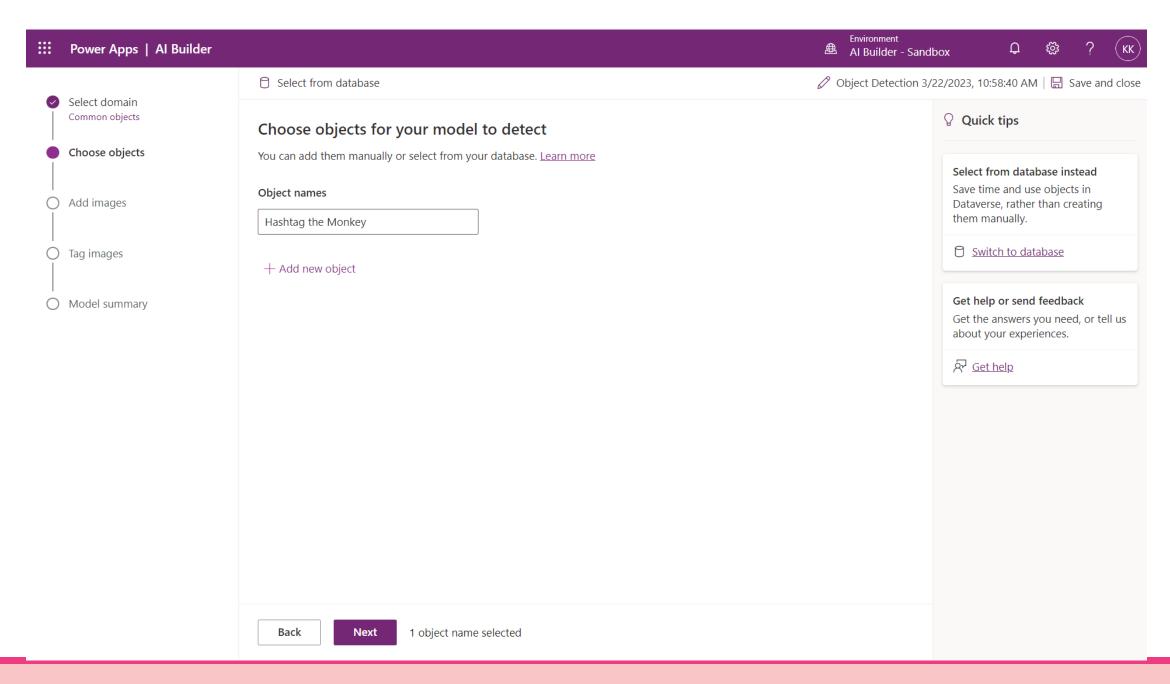
Need 15 images per object being tagged

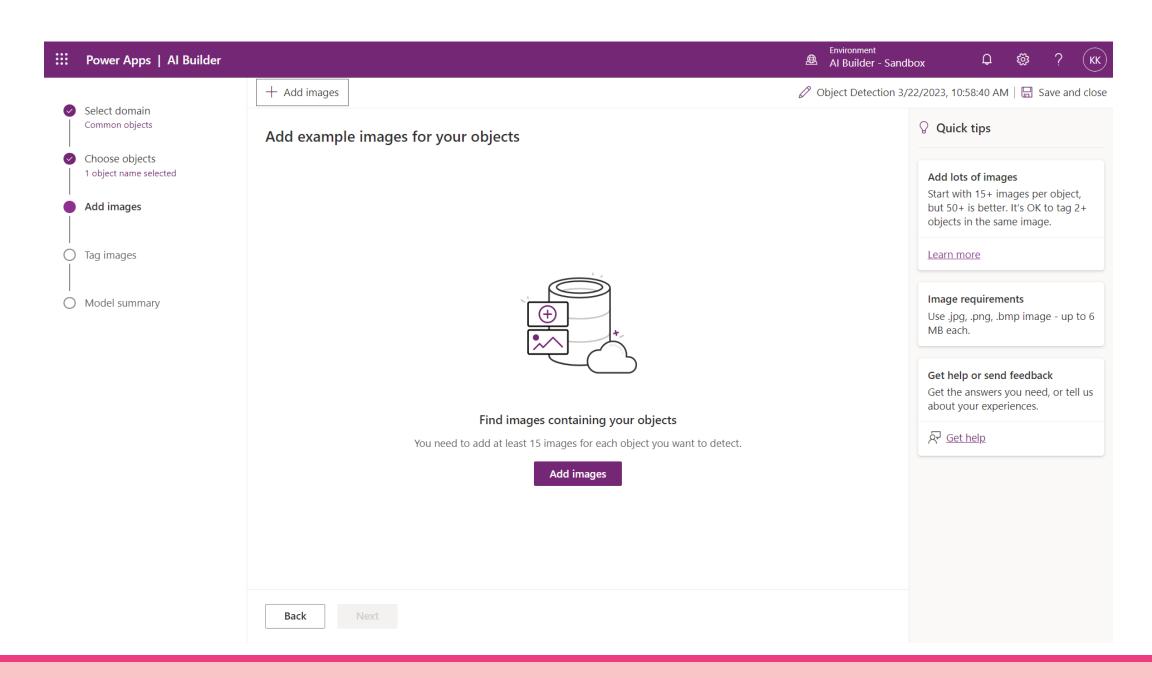


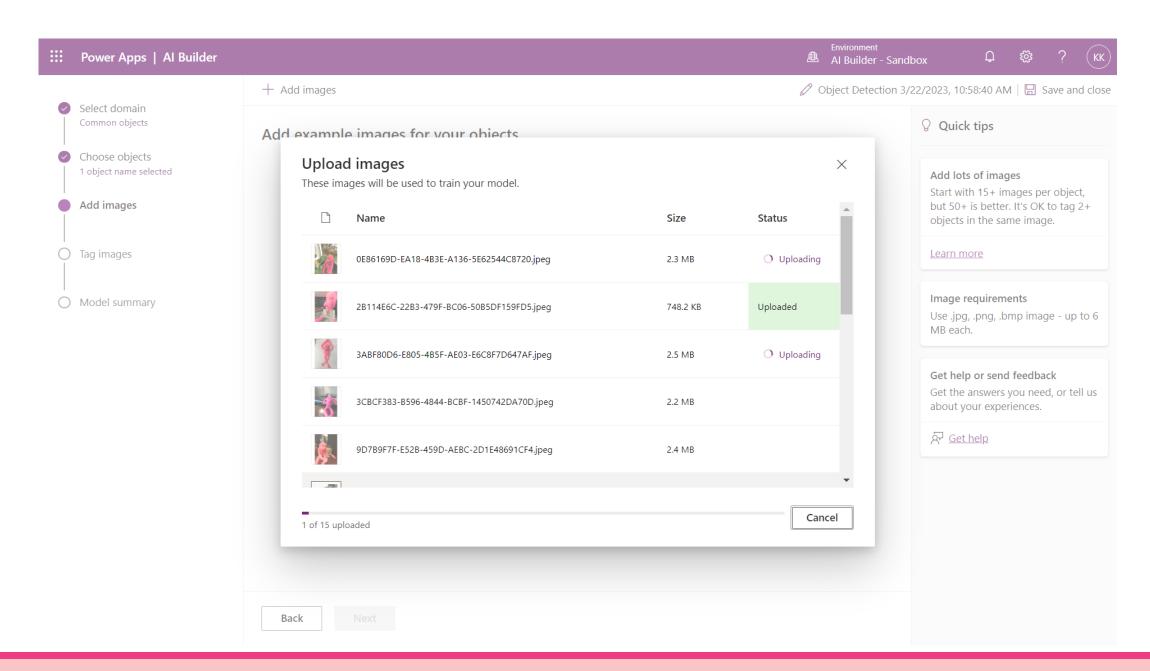
Try to have varied images for the best accuracy















Tagging progress

Image 1 of 15

You must tag at least 15 images for each object. Tagging more than 50 images for each object could yield better results. You can have multiple tags per image.

Tags applied

Hashtag the Monkey



























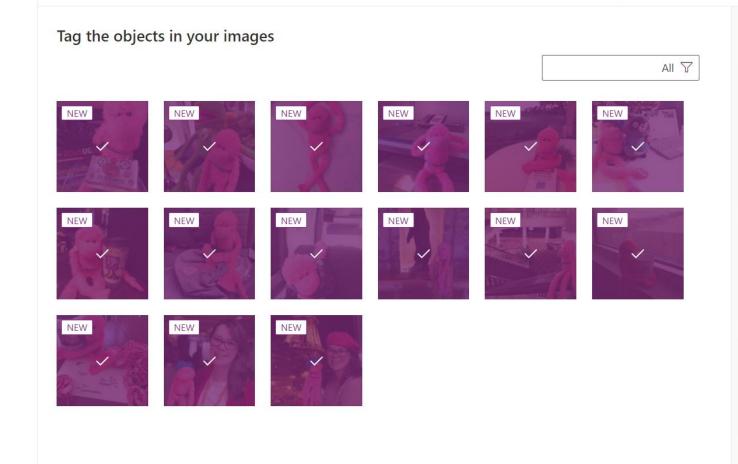








- Select domain Common objects
- Choose objects 1 object name selected
- Add images 15 images added
- Tag images 15 images tagged
- O Model summary





Object Detection 3/22/2023, 10:58:40 AM | 🖫 Save and close

Tagging requirements

You must tag at least 15 images for each object. Tagging more than 50 images for each object could yield better results. You can have multiple tags per image.

Hashtag the Monkey

Want to add more images?

Adding more images may increase model performance.

+ Add images

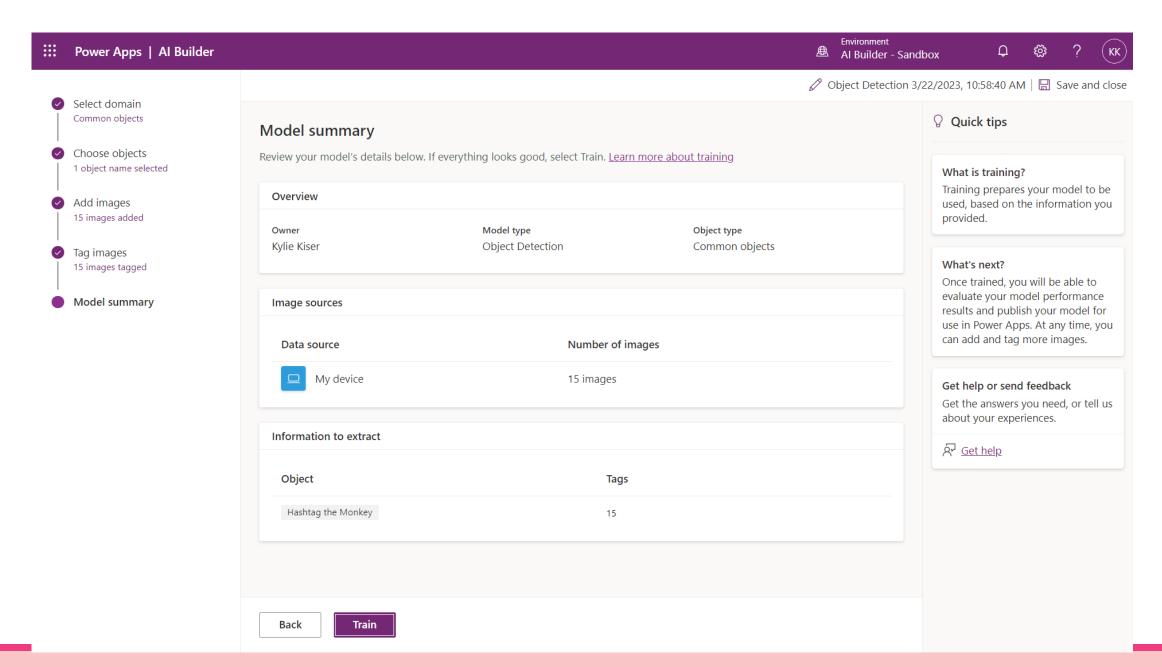
Get help or send feedback

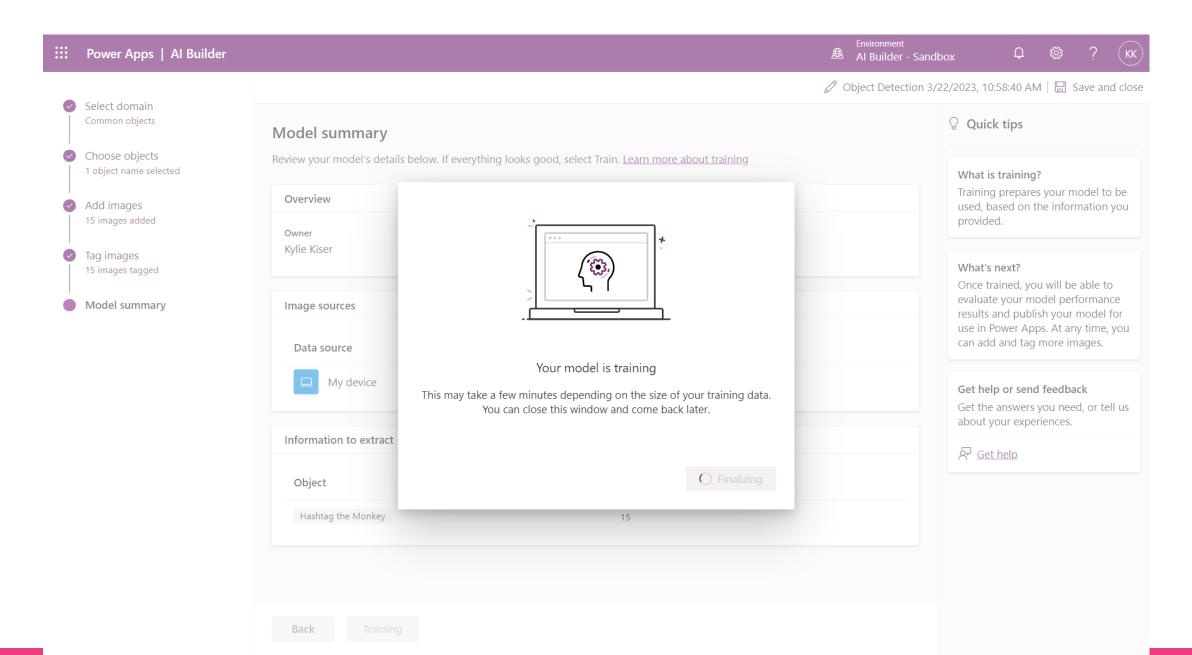
Get the answers you need, or tell us about your experiences.

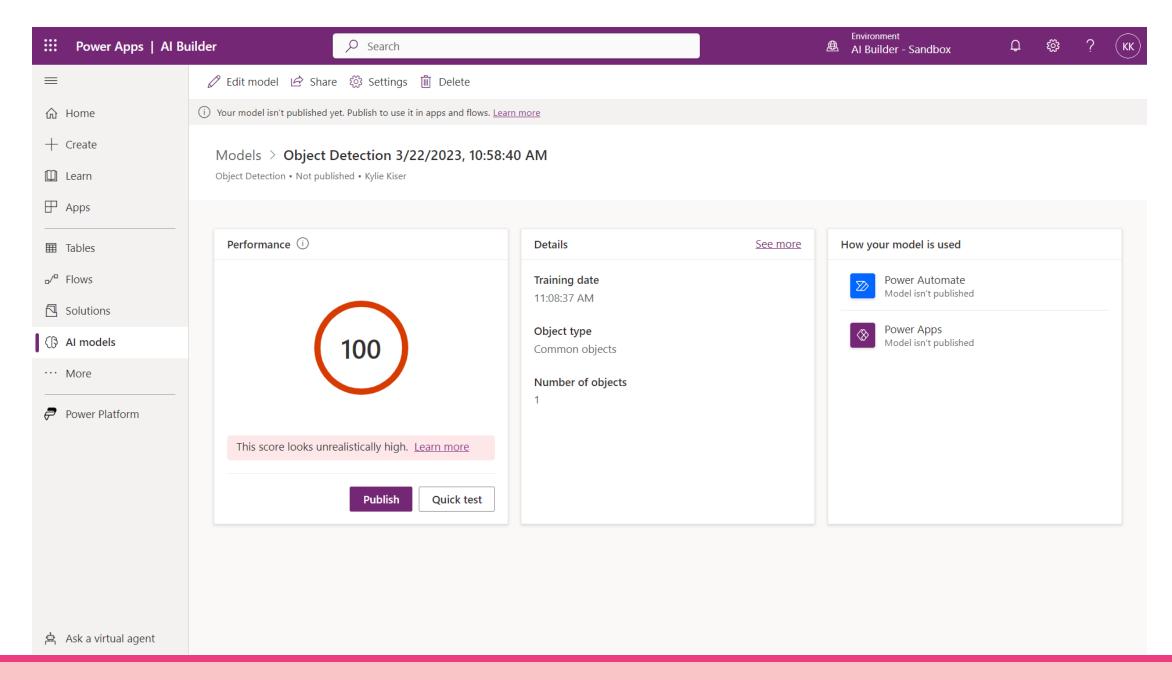
Get help

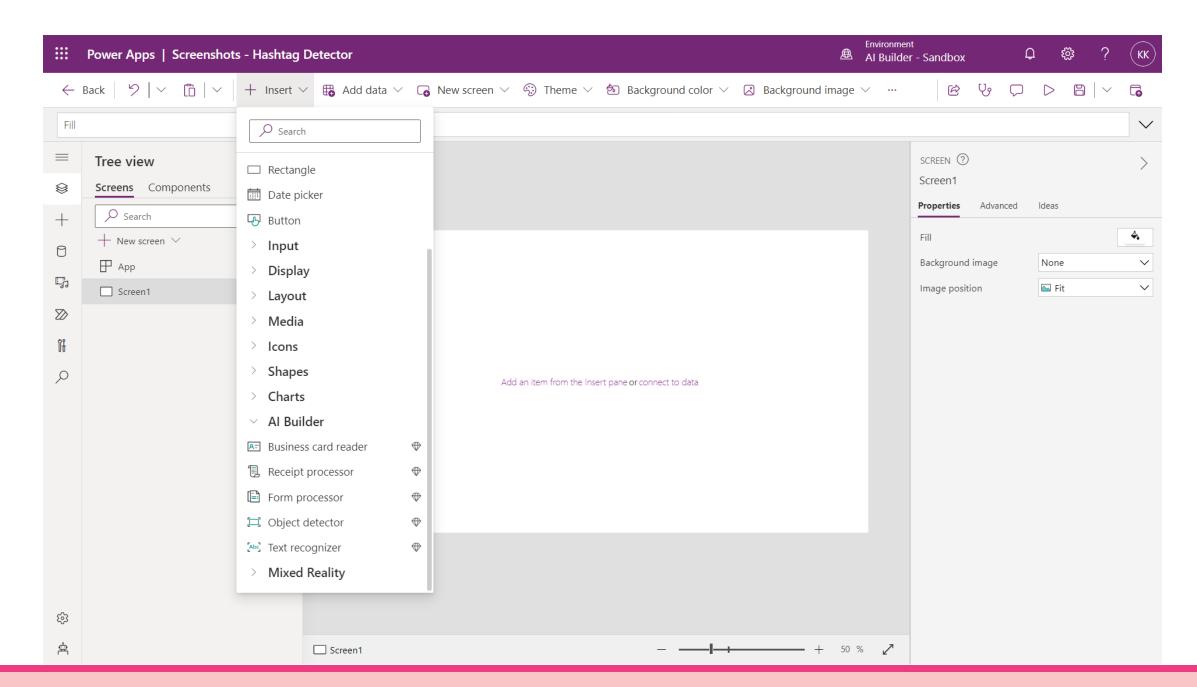
Back

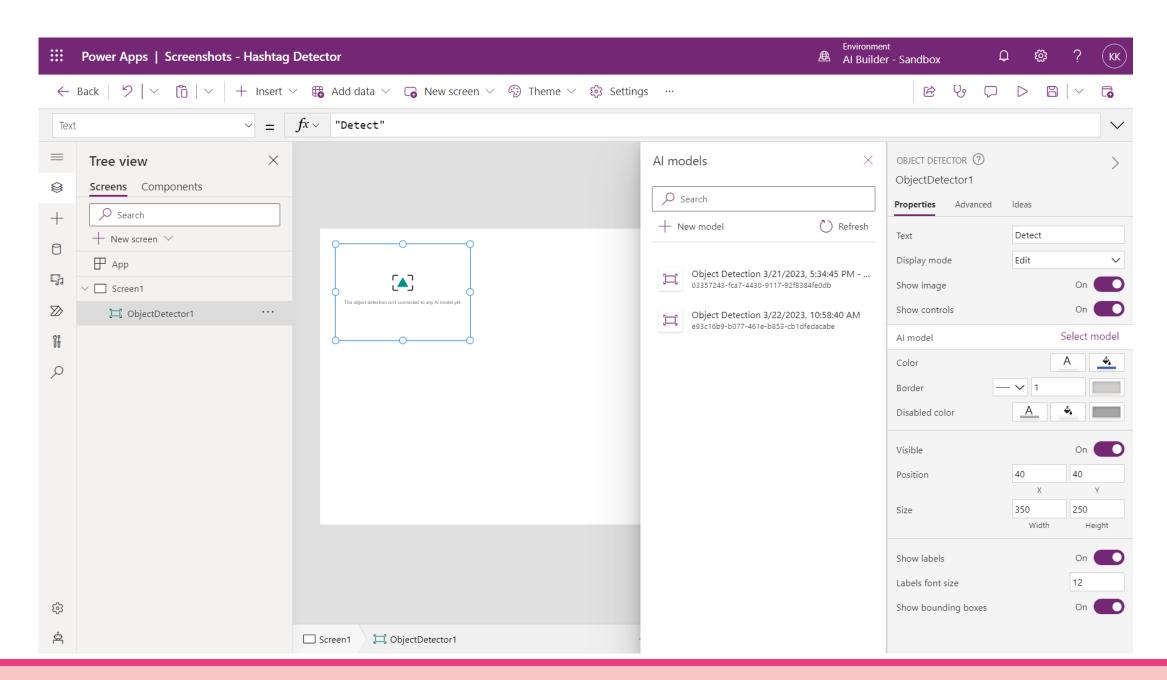
Next

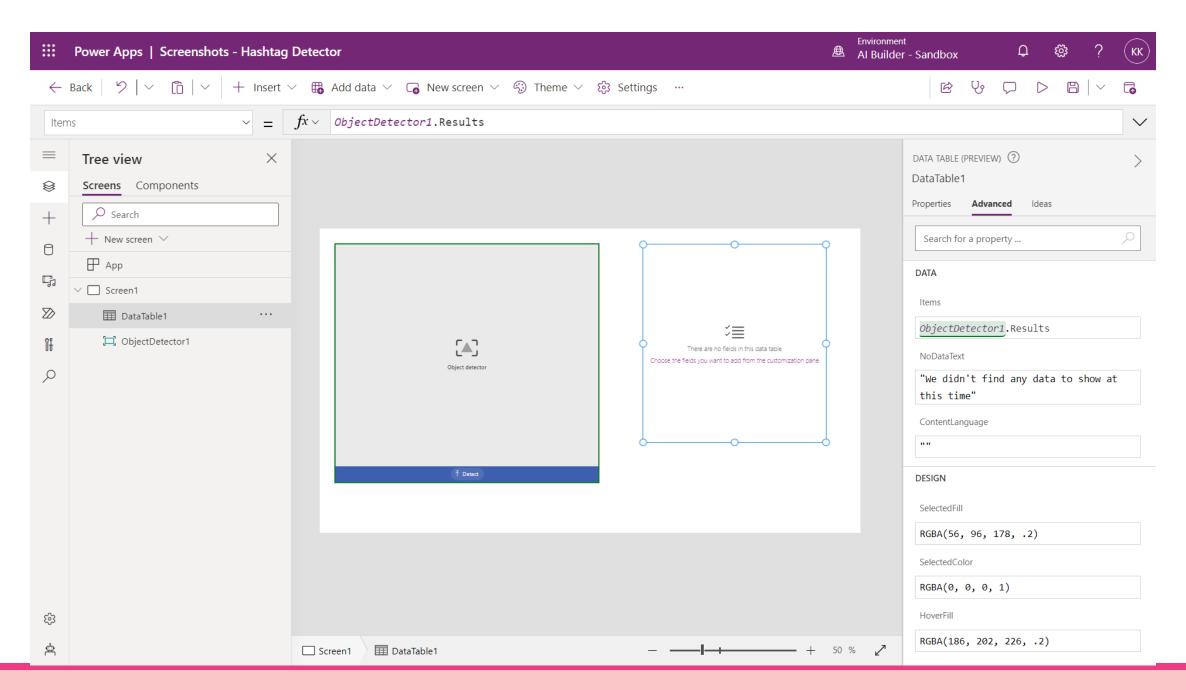


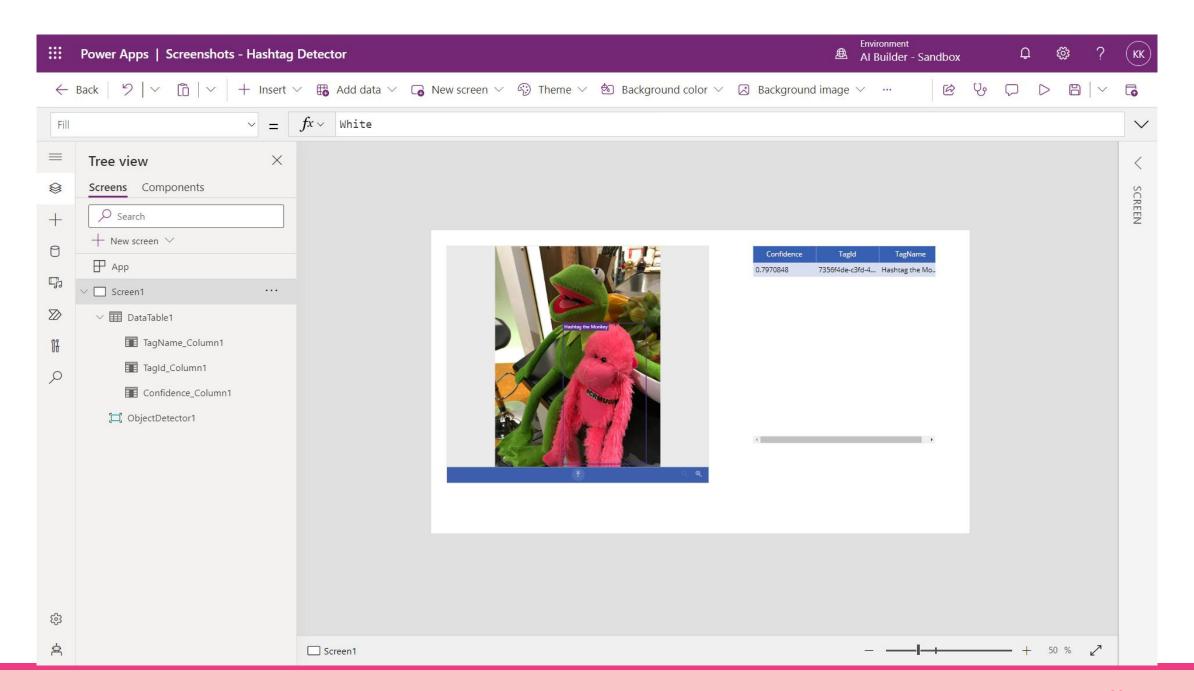












Azure Al Services

Overview



Al Builder is built on top of Azure Al Services



Azure Al Services allows you to do more advanced Al with a broad range of APIs



5 categories: Vision, Speech, Language, Decision, Search



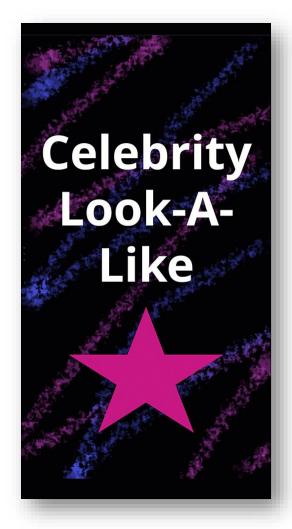
This can still be low code!

Example: Face API

Finds which celebrity you look the most like

Uses OneDrive, Power Automate, Azure Al Services (Face API), and Power Apps

Low Code!





Azure for Gov Computer Vision

Tap the camera control to save an image



Back camera



Captured Image



Analyze Photo

a desk with a laptop computer sitting on top of a wooden table

Azure Computer Vision Demo

Microsoft Federal Demo on GitHub

Power App that uses Flow and Azure Computer Vision to tell you what an image is of

Still all Low-Code!

Demo Files

Which one?

AI BUILDER

Makers

Pre-built, customizable models

Al Builder Capacity Add-on (up to 1 million service credits)

AZURE AI SERVICES

Developers

Fully extendable

Cheaper pricing model by transaction



Final Thoughts

Responsible Al

Fairness

Reliability and Safety

Privacy and Security

Inclusiveness

Transparency

Accountability

QUESTIONS AND ANSWERS





Connect with Me!

Kylie Kiser

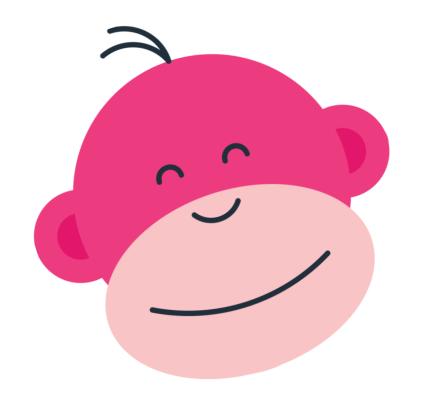


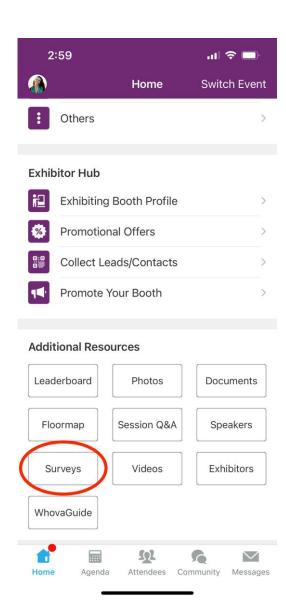


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- Complete the session feedback survey.
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