



COMMUNITY SUMMIT

POWER
PlatformUG

2023



The Largest Independent Gathering
of the Microsoft User Ecosystem



Power Apps, AI Builder, & Cats!

Decrease Complexities,
Deliver Results.

| Speakers



Kylie Kiser,
Solution
Architect,
RSM Canada

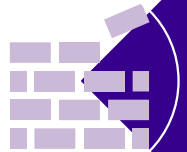


Mallory
Lawhorne,
Senior
Consultant
Microsoft

| Agenda



Introduction to
the tools



Live Build!



How can we
improve the app?



Q&A

Session Objectives

What will you learn today?

1. Try the Object Detection model in AI Builder
2. See how easy it is to build Canvas Power Apps
3. Have fun talking about cats and the Power Platform

Introductions

Microsoft Power Platform

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



Power BI

Business analytics



Power Apps

Application development

- Canvas Apps
- Model-driven Apps



Power Pages

Secure business websites



Power Automate

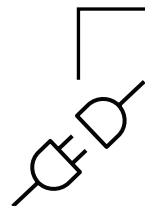
Process automation

- Cloud Flows & Teams Flows
- Business Process Flows
- Desktop Flows

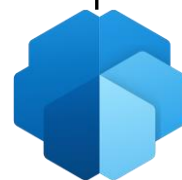


Power Virtual Agents

Intelligent virtual agents



**Data
connectors**

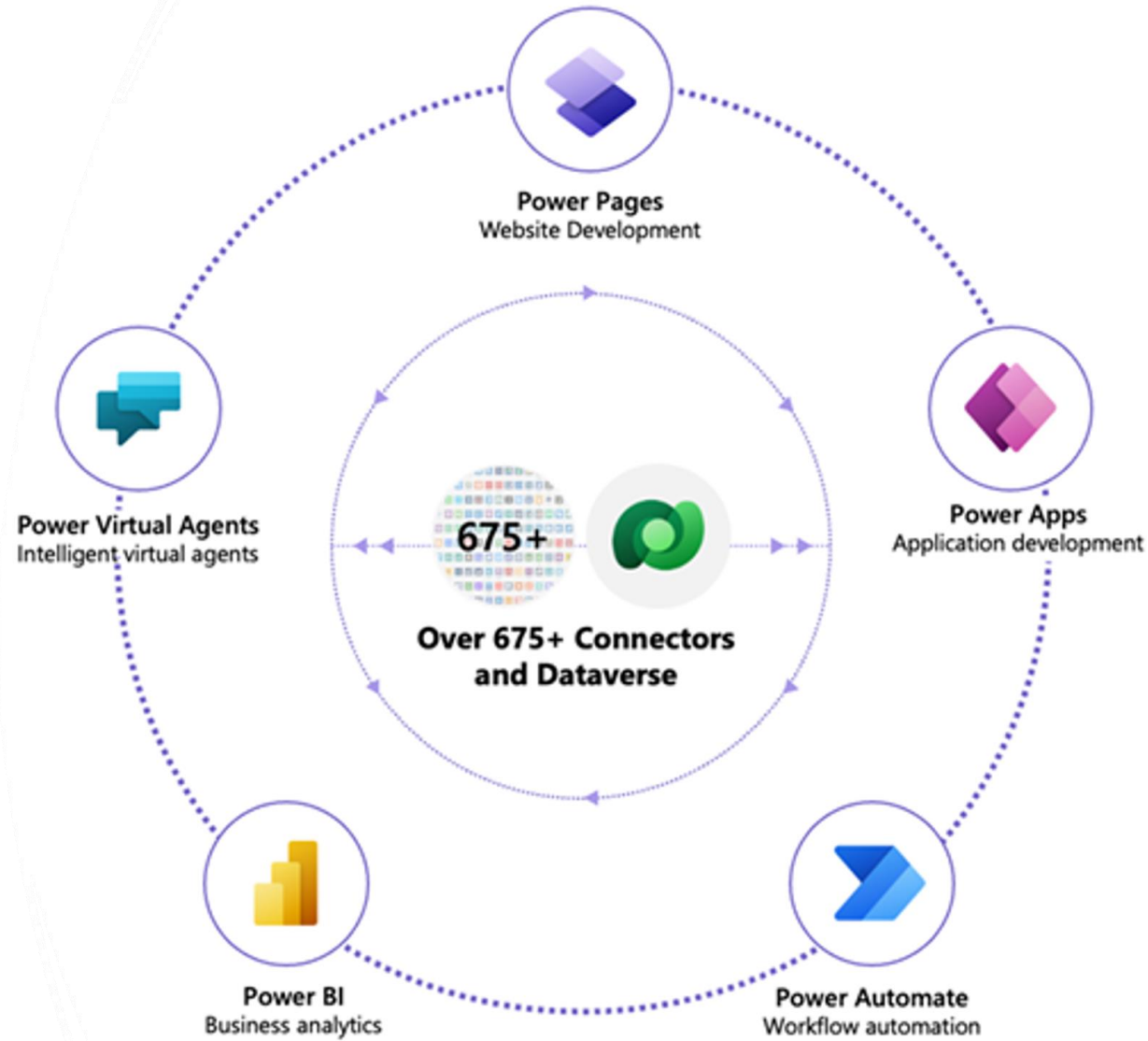


AI Builder



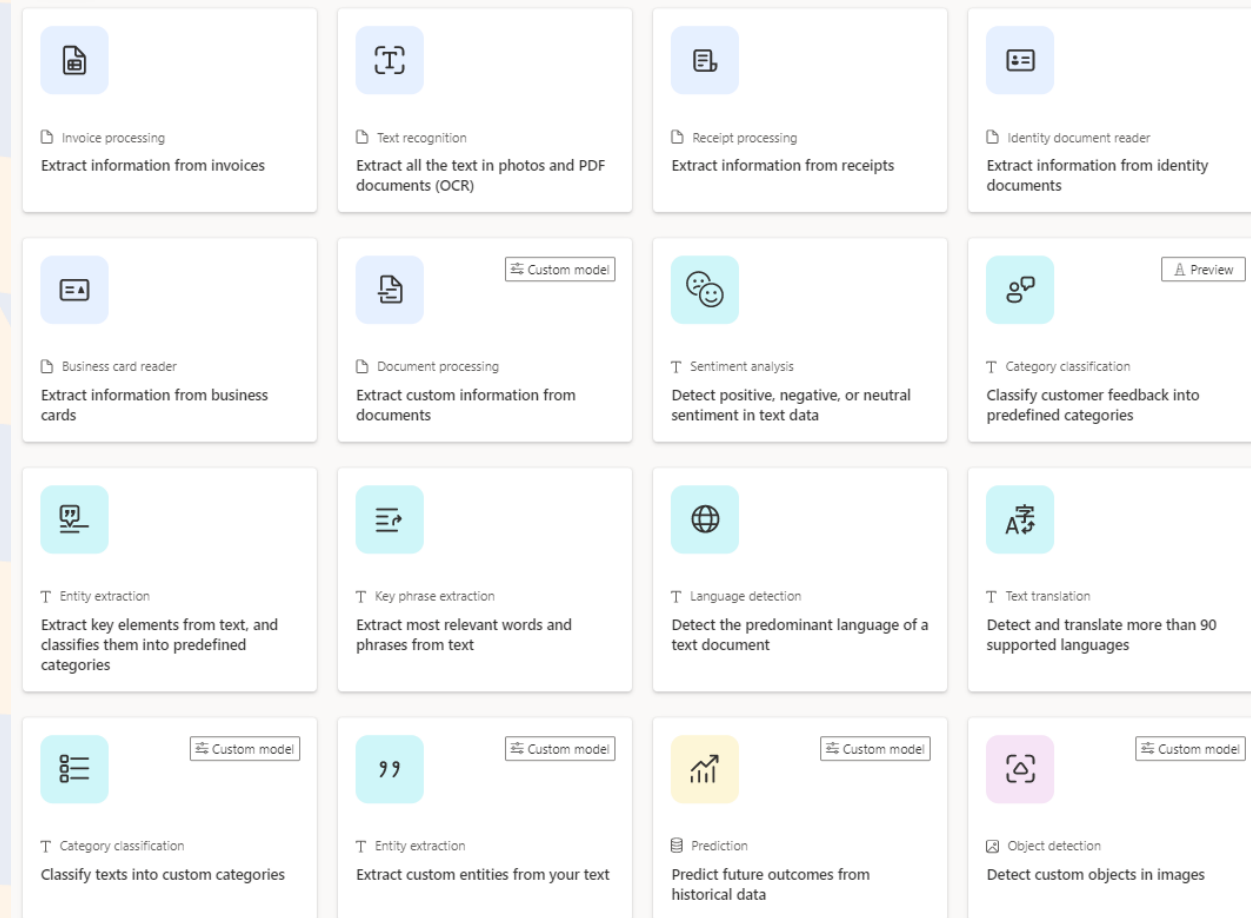
Dataverse

Powerful alone. Even better together.



















AI Builder

- Part of the maker portal that allows the creation of AI 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



A grid of 16 AI Builder model cards, each with an icon, a title, a description, and a 'Custom model' toggle. The cards are arranged in a 4x4 grid.

 Invoice processing Extract information from invoices	 Text recognition Extract all the text in photos and PDF documents (OCR)	 Receipt processing Extract information from receipts	 Identity document reader Extract information from identity documents
 Business card reader Extract information from business cards	 Document processing Extract custom information from documents	 Sentiment analysis Detect positive, negative, or neutral sentiment in text data	 Category classification Classify customer feedback into predefined categories
 Entity extraction Extract key elements from text, and classifies them into predefined categories	 Key phrase extraction Extract most relevant words and phrases from text	 Language detection Detect the predominant language of a text document	 Text translation Detect and translate more than 90 supported languages
 Category classification Classify texts into custom categories	 Entity extraction Extract custom entities from your text	 Prediction Predict future outcomes from historical data	 Object detection Detect custom objects in images

AI Builder Object Detection Model



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



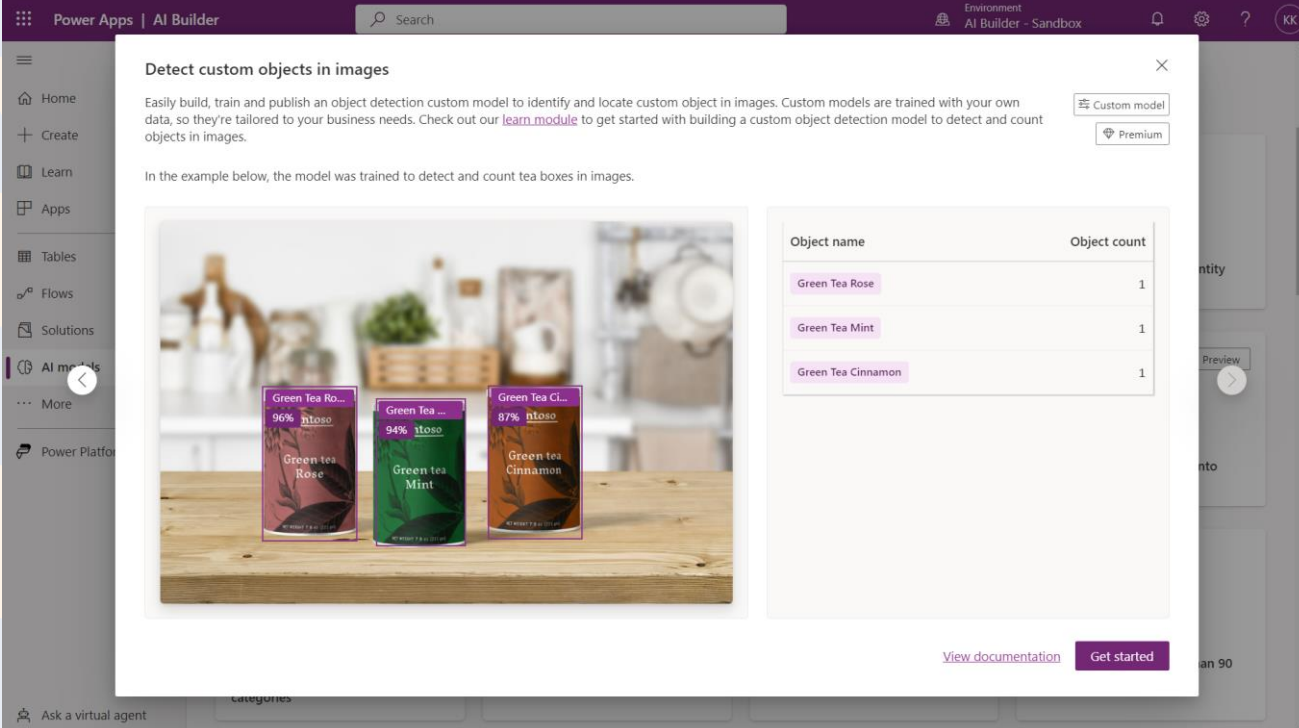
Example: Streamline inventory management for retail



Need 15 images per object being tagged



Try to have varied images for the best accuracy



The screenshot shows the AI Builder interface in Power Apps. The main window displays a custom object detection model titled "Detect custom objects in images". Below the title, there is a brief description: "Easily build, train and publish an object detection custom model to identify and locate custom object in images. Custom models are trained with your own data, so they're tailored to your business needs. Check out our [learn module](#) to get started with building a custom object detection model to detect and count objects in images." Below this, a note states: "In the example below, the model was trained to detect and count tea boxes in images." The central part of the interface features an image of three tea boxes on a wooden surface. To the right of the image is a table showing the detected objects and their counts:

Object name	Object count
Green Tea Rose	1
Green Tea Mint	1
Green Tea Cinnamon	1

At the bottom right of the interface, there are links for "View documentation" and a "Get started" button.

Power Apps



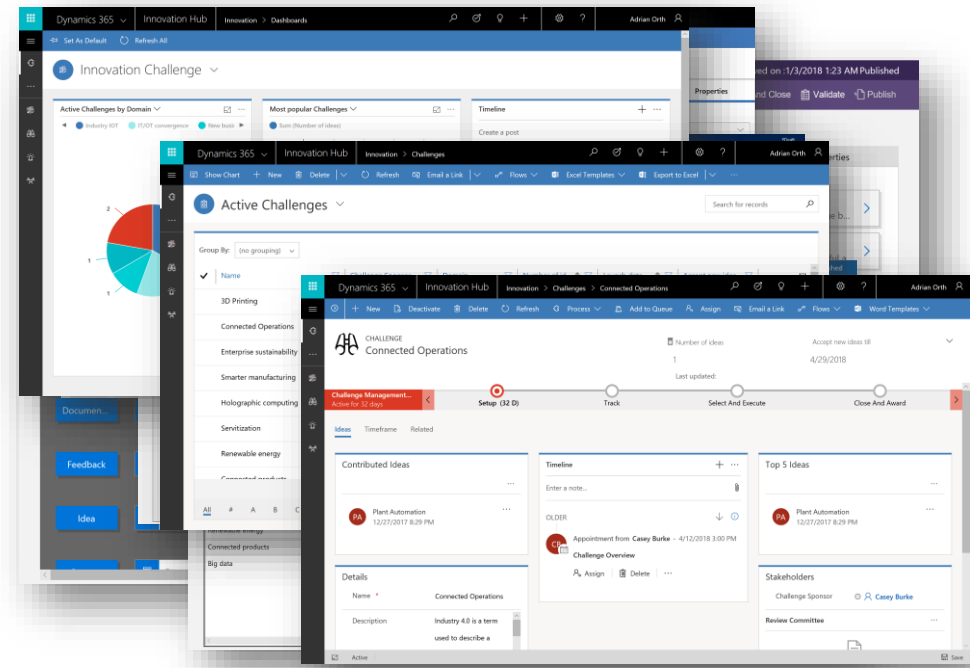
- Canvas Apps for Pixel Perfect Design, connect to multiple data sources
- Model-Driven Apps for displaying Dataverse data

Power Apps



Canvas apps

- Start with user experience
- WYSIWYG designer
- Task- and role-based apps
- Mash up data from 200+ sources



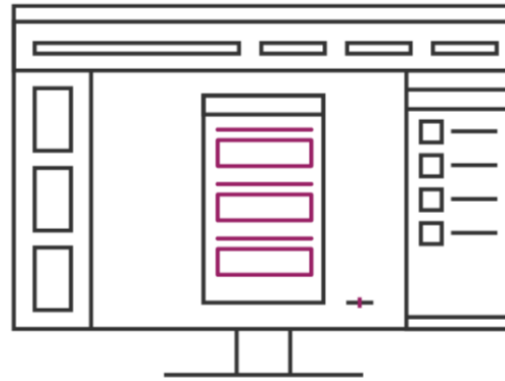
Model-driven apps

- Built on the Common Data Service for Apps
- Start with a data model, relationships, and business processes
- Build End-to-End business applications

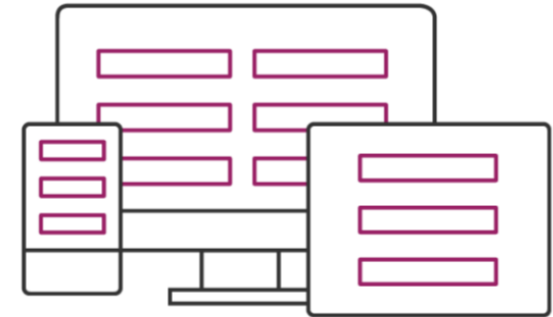
Canvas Apps help business-power-users to create and use custom business apps across platforms using Excel and PowerPoint skills



Connect to data & systems you're already using *easily*

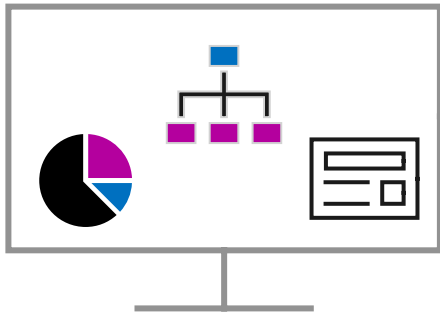


Create apps, forms, and workflows *without writing code*

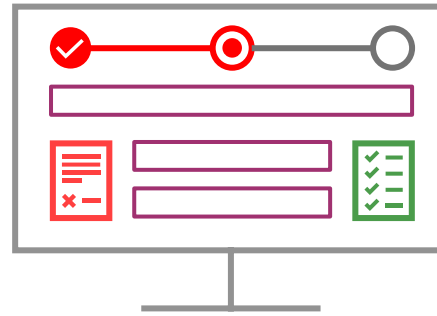


Use apps *on any device* – both web and mobile

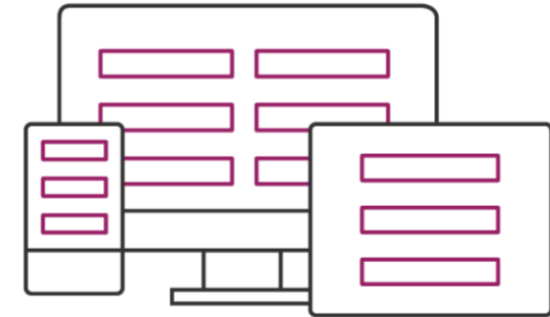
PowerApps Model-driven apps provides a metadata-driven architecture for creating and customizing apps without writing code



Rich component-focused no-code design environments



Easily add Business rules and Business process flows to model your business processes



Complex responsive apps on web and mobile

Meet Our Cats



Lady Godiva

Medium hair,
dilute Calico,
princess,
7:30 AM Wake up call



Drifter Kenneth Ellen Parcell Lucifer Lawhorne

Gray and White domestic
shorthair
Car engine singleton jerk
Hotboy with IBS



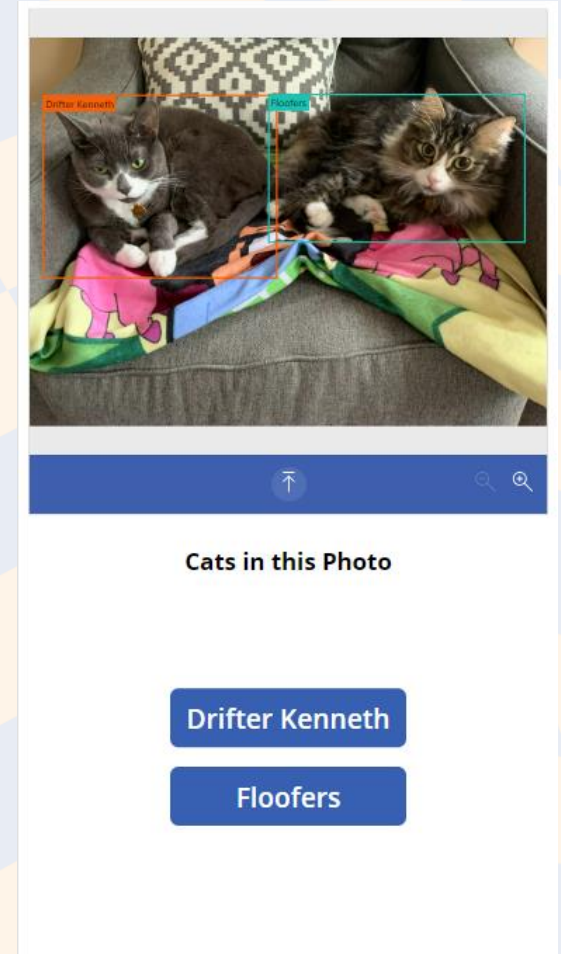
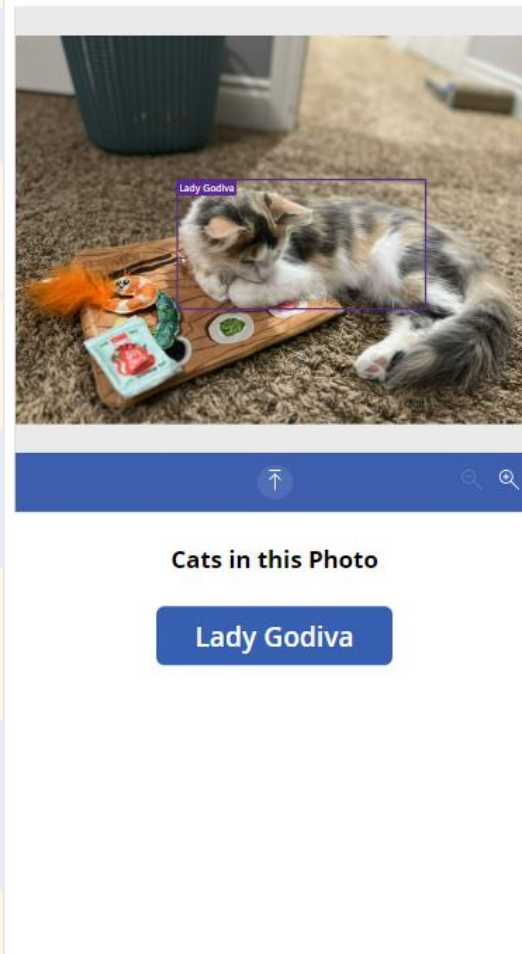
Floofers

Brown tabby with White
Domestic Longhair
Asthmatic angel
Hot boy with IBS

Live Build

Our App

- Canvas Power App to identify cats in the image

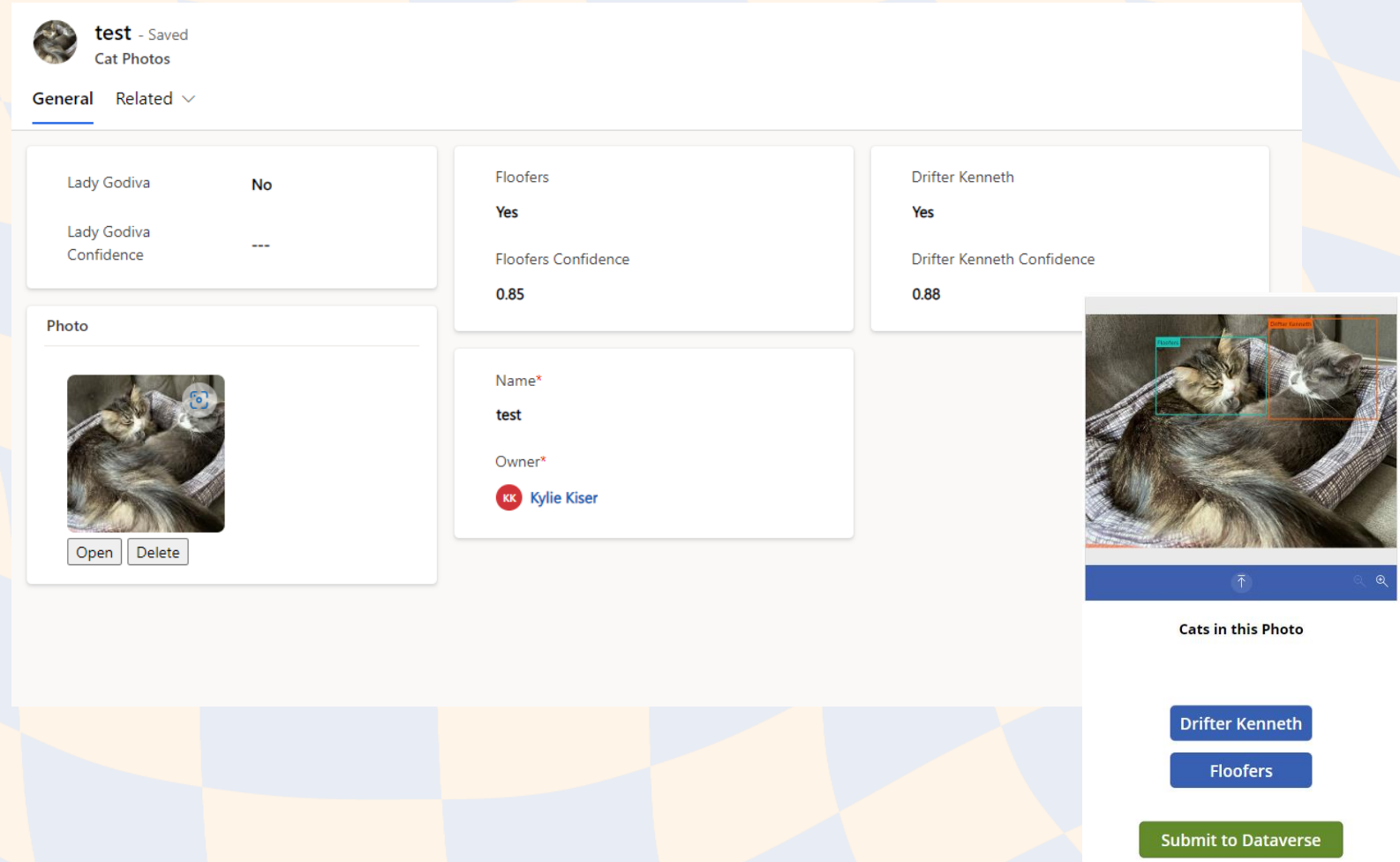


Demo time!

- Object Detection Model to identify which cat is which
- Add into Canvas Power App
- Power Fx to tell us which cat or cats are in the image
- Put this all in a solution to move between environments
- Retrain the model with additional pictures
- Cat pics: <https://rb.gy/ckxbk>

Stretch Goal: Add to Dataverse

- Create Dataverse “Cat Photos” Table
- When Photo is added to the app, add to Dataverse



The screenshot shows a mobile application interface for adding a cat photo to a Dataverse table. The interface is divided into several sections:

- Header:** A user profile for 'test' with a 'Saved' status and 'Cat Photos' as the table name. There are tabs for 'General' and 'Related'.
- Form Fields:**
 - Lady Godiva:** A field with a 'No' value and a 'Confidence' field with a '---' value.
 - Floofers:** A field with a 'Yes' value and a 'Confidence' field with a '0.85' value.
 - Drifter Kenneth:** A field with a 'Yes' value and a 'Confidence' field with a '0.88' value.
- Photo Section:** A 'Photo' label above a photo of two cats. Below the photo are 'Open' and 'Delete' buttons.
- Metadata Section:** Fields for 'Name*' (test) and 'Owner*' (Kylie Kiser, with a 'KK' icon).
- Bottom Panel:** A section titled 'Cats in this Photo' with two buttons: 'Drifter Kenneth' and 'Floofers'. At the bottom is a green 'Submit to Dataverse' button.

Next Steps

- Potential to make more generic to identify cat breeds
- Could be done via Power Automate on large volumes of images
- Images and tags could be saved in Dataverse

Key take-aways

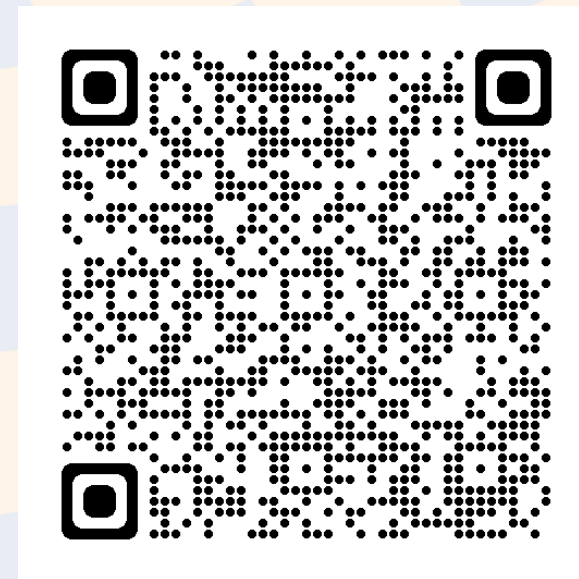
- AI Builder is easy to get started with!
- Some models with no training or just point-and-click
- Models can easily be added into Canvas Power Apps

Suggested Resources

Object Detector
Documentation



Introduction to AI in the
Power Platform
Presentation





Questions?

Thank you for attending!

Kylie Kiser

RSM Canada

Kylie.Kiser@RSMCanada.com

KylieKiser.com

Mallory Lawhorne

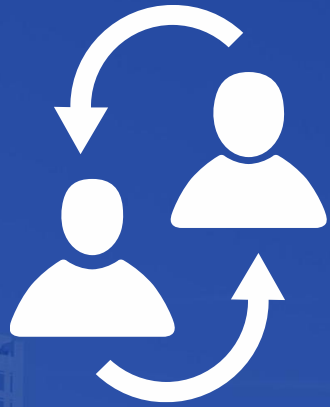
Microsoft

mallory.lawhorne@microsoft.com

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