DYNAMICSCON PRESENTATION

DynamicsCon LIVE

POWERED BY
DUG

SEPTEMBER 14-16,
2022

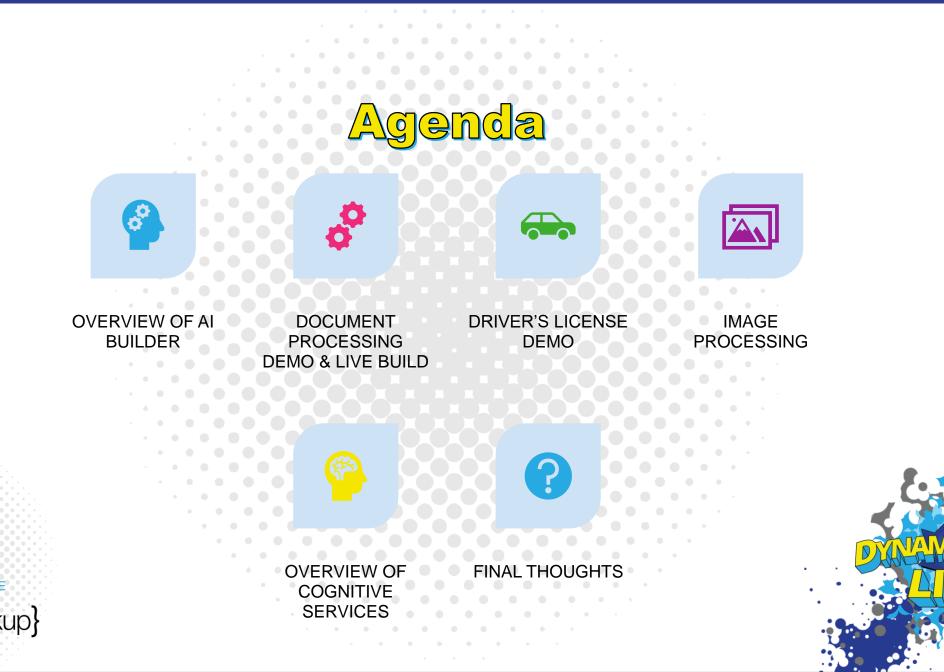# Kylie Kiser

4x Microsoft Business Applications MVP

CE Solution Architect at Hitachi Solutions
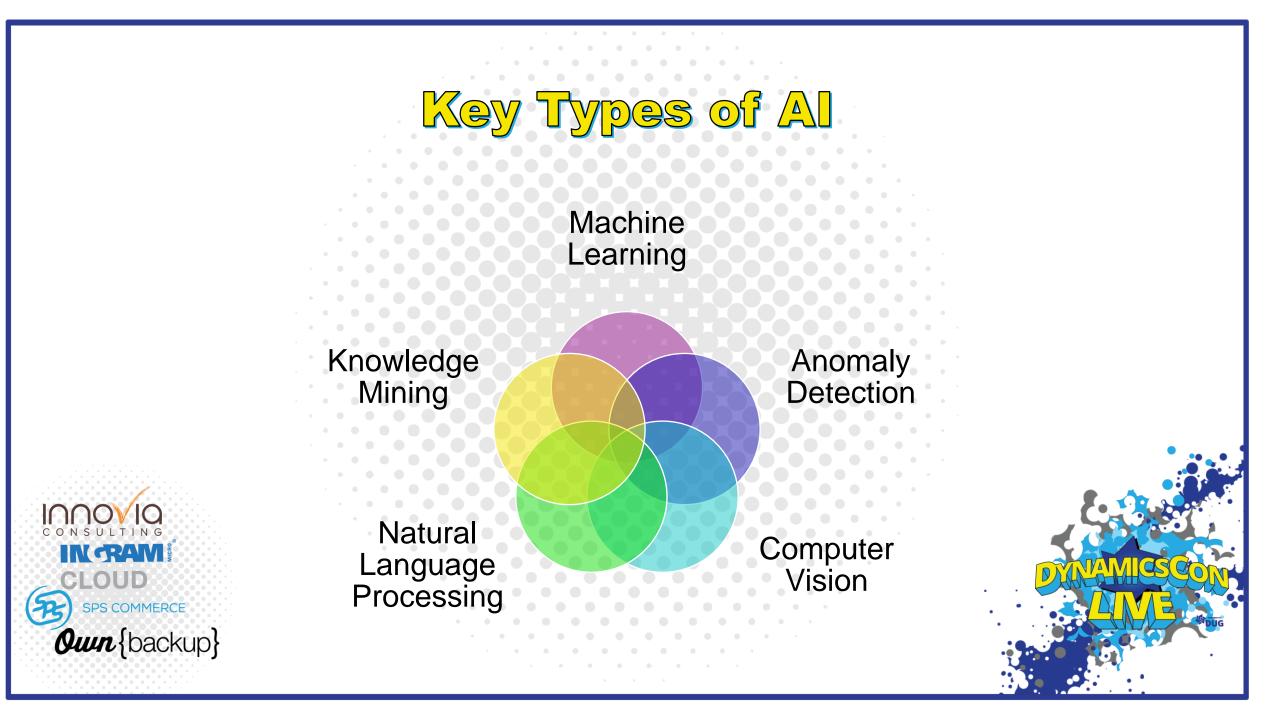
10+ Years working with Dynamics and the Power Platform

Washington, DC User Group Chapter Leader

innovia
CONSULTING

INGRAM MICRO®
CLOUD

SPS COMMERCE

Own{backup}

Agenda

OVERVIEW OF AI BUILDER

DOCUMENT PROCESSING DEMO & LIVE BUILD

DRIVER'S LICENSE DEMO

IMAGE PROCESSING

OVERVIEW OF COGNITIVE SERVICES

FINAL THOUGHTS

Key Types of AI

Machine Learning

Knowledge Mining

Anomaly Detection

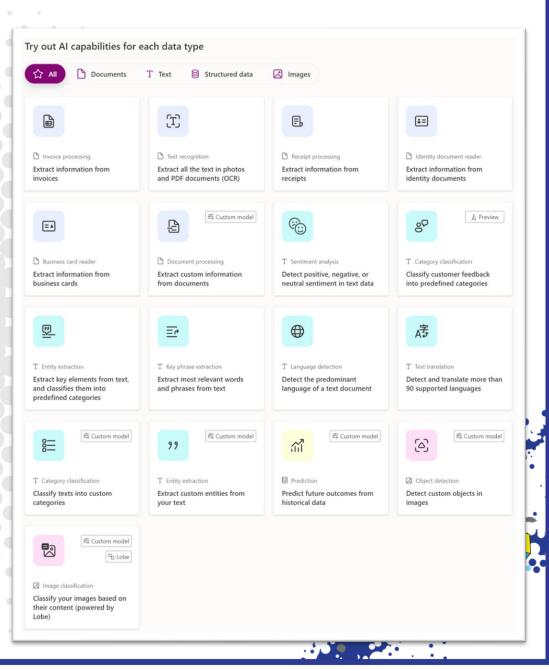Natural Language Processing

Computer Vision

AI Builder

Overview

- **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**
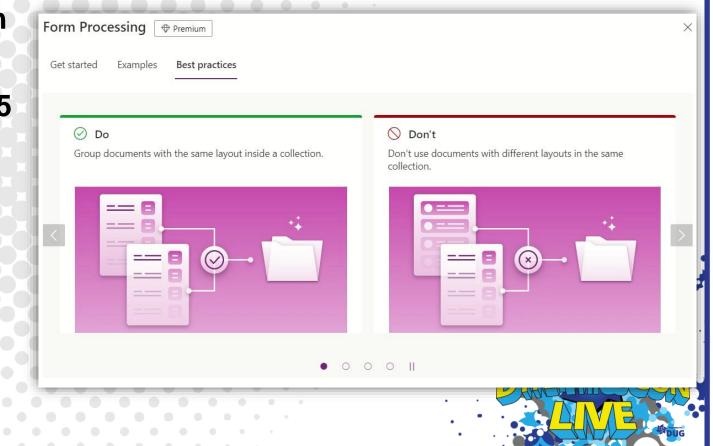- **Can be refined and trained further after use**

Getting Started with Document Processing

- **Forms Processing can read data from typed or hand-written 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**

Models > **Registration Form - Practice**
Form Processing • Published • Kylie Kiser

Training document   See details

Selected fields   See more

First Name

Last Name

Phone Number

E-mail

How your model is used

Power Automate
See documentation

Power Apps
See documentation

Use model   Quick test

Demo Time!

- **Final Power App**
- **Training the Forms Processing model**
- **Adding to a Power App**
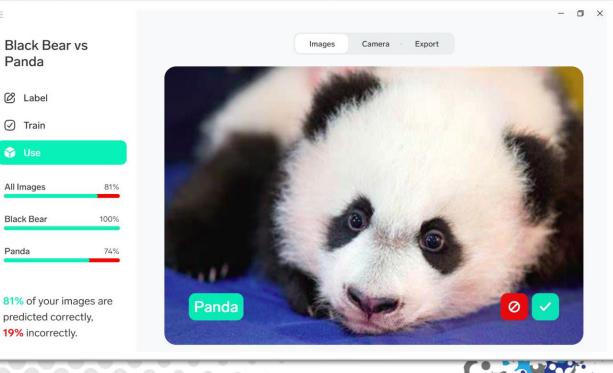
Driver's License Demo

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**

Image Processing

What is Lobe?

- **Free desktop applications to build machine learning models**

- **Step by step image classification (no code!)**

- **Export models into the Power Platform**

Demo

- **Create Model in Lobe**

- **Import and Classify Images**

- **Test**

- **Import Model into AI Builder**

Cognitive Services

Overview

- **AI Builder is built on top of Azure Cognitive Services**

- **Cognitive Services allows you to do more advanced AI 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, Cognitive Services (Face API), and Power Apps**

- **Low Code!**

Celebrity Look-A-Like

Which one?

Cognitive Services
- **Makers**
- **Pre-built, customizable models**
- **$500 USD/month for AI Builder Capacity Add-on (up to 1 million service credits)**

AI Builder
- **Developers**
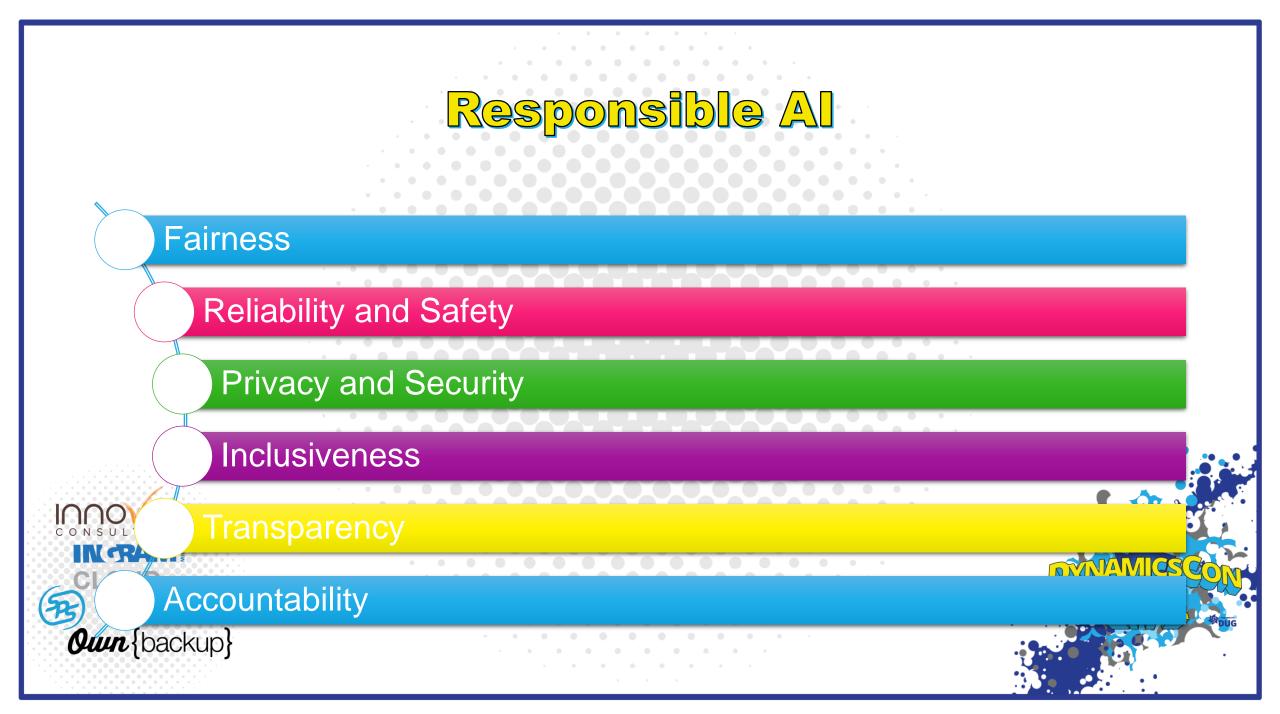- **Fully extendable**
- **Cheaper pricing model by transaction**

Licensing Resources

- **Licensing Blog by Éric Sauvé:**
  https://link.kyliekiser.com/zepowerdiver

- **Docs Licensing Overview: https://link.kyliekiser.com/AIBLicensing**

- **Licensing Calculator: https://link.kyliekiser.com/AIBCalc**

- **Cognitive Services Pricing: https://link.kyliekiser.com/ACSLicensing**

Final Thoughts

Responsible AI

- Fairness
- Reliability and Safety
- Privacy and Security
- Inclusiveness
- Transparency
- Accountability

Resources

- **AI Builder**
  - What is AI Builder? - AI Builder | Microsoft Docs
  - AI Builder Licensing - AI Builder | Microsoft Docs
  - Demo resources: GitHub - microsoft/Federal-Business-Applications
    - Related Demos: https://youtu.be/027gVhqt1l0
  - Learn courses: AI Builder | Learn
  - Use formulas for text AI models (preview) in Power Apps - AI Builder | Microsoft Docs
  - Forms Processing
    - Create a form processing model - AI Builder | Microsoft Docs
    - Requirements and limitations - AI Builder | Microsoft Docs
    - Use the form processor component in Power Apps - AI Builder | Microsoft Docs
    - Use your form processing model in Power Platform - Power Platform Release Plan | Microsoft Docs
    - KylieKiser.com: Building a Forms Processing Model
      - KylieKiser.com: Adding Forms Processing Model to an App

- **Cognitive Services**
  - Cognitive Services—APIs for AI Developers | Microsoft Azure
  - Azure Cognitive Services documentation | Microsoft Docs
  - What are Azure Cognitive Services? - Azure Cognitive Services | Microsoft Docs
  - Learn courses: Azure Cognitive Services | Learn
  - Demo: Aiden Kaskela, Kylie Kiser-Power Platform Pictures and AI Take your no-code skills to the next level - YouTube
    - Face API: Facial Recognition | Microsoft Azure
- **More Demos: Phil Topness - 5 Minute Power Platform PowerApps - YouTube**
- **Responsible AI principles from Microsoft**

Connect with Me!

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