



September 14th - 28th



The Power Platform Global AI Hack

Build, innovate, and **#HackTogether**

aka.ms/hacktogether/powerplatform-ai



Leveraging Azure OpenAI Service in the Power Platform

Robin Rosengrün & Daniel Laskewitz



POWER PLATFORM
ADVOCATES

Power Platform AI HackTogether '23

Live Sessions

Sept 14th

Kickoff: Ready, Set
Hack: Do more
with AI in the
Power Platform

Sept 18th

Intro to Power
Platform Copilots

Sept 21st

Leveraging Azure
Open AI Service in
the Power Platform

Sept 20th

Get Started with AI
Builder In Power
Platform

Sept 25th

How to Submit
your projects on
GitHub

Sept 28th

Wrap up and take
action: Join our
community for the
next Big Thing!



Welcome & Introduction

- Robin Rosengrün
 - Enabler @ EnBW
 - Speaks German, English and <SVG>
 - knows nothing about AI
- Daniel Laskewitz
 - Senior Cloud Advocate @ Microsoft
 - Power Platform experience since 2016
 - In IT since 2013

Agenda

- Welcome & Introduction
- What is OpenAI?
- Power Platform Connectors
- What is the Azure OpenAI Service?
- What to use when?
- What's next?
- Q & A

What is OpenAI?



DALL-E

Creating images from text

Codex

Understand and generate code

Whisper

Automatic speech recognition

ChatGPT

Conversational AI chatbot

GPT-3

Understand and generate natural
language

Demo

ChatGPT vs Playground

Power Platform Connectors



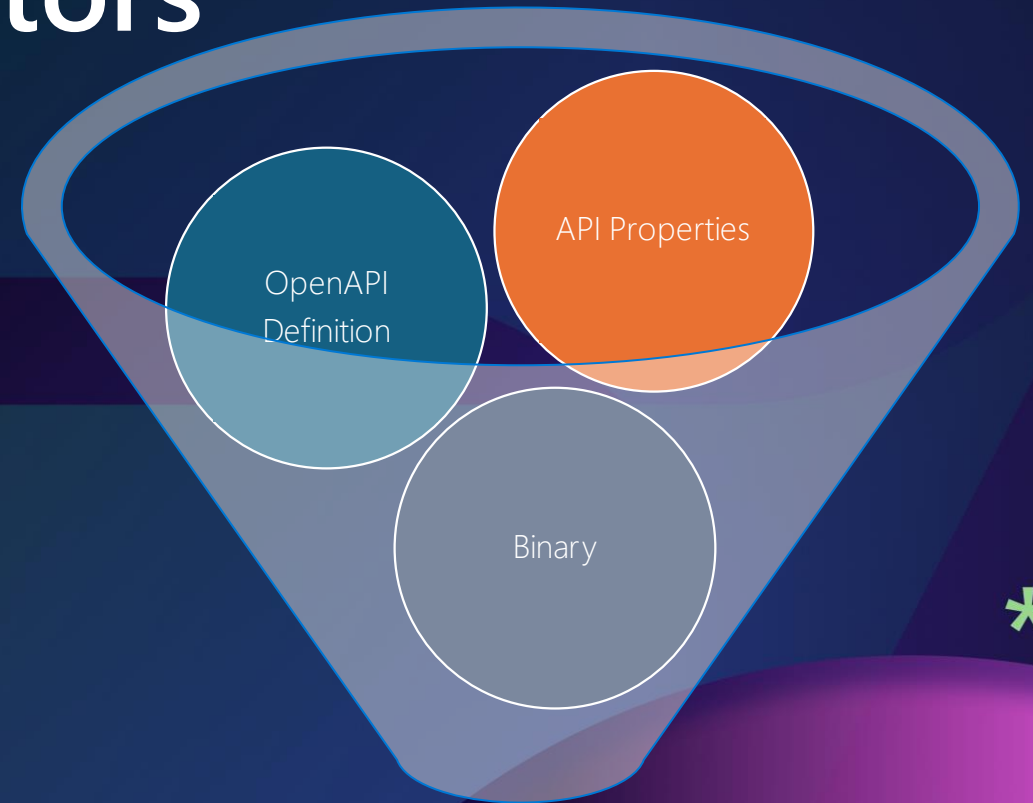
A formal definition of a
REST API



Allows the **REST service** to talk
to the Microsoft Power Platform
and Logic Apps



Currently **1000+** connectors in
the product



Connector

Power Platform Connectors



Add services that are not currently supported



Expand connectors that currently don't have the trigger/action you want



Custom connectors are simple to build, don't require a lot of coding



Can be built using the wizard, a postman collection, or with your favourite IDE (for instance VS Code)



Can be shared, packaged and certified via GitHub

Power Platform Connectors

- Robin made the OpenAI Connector last year
- Robin, Daniel & Andrew Coates built the Azure OpenAI Service connector together

Demo

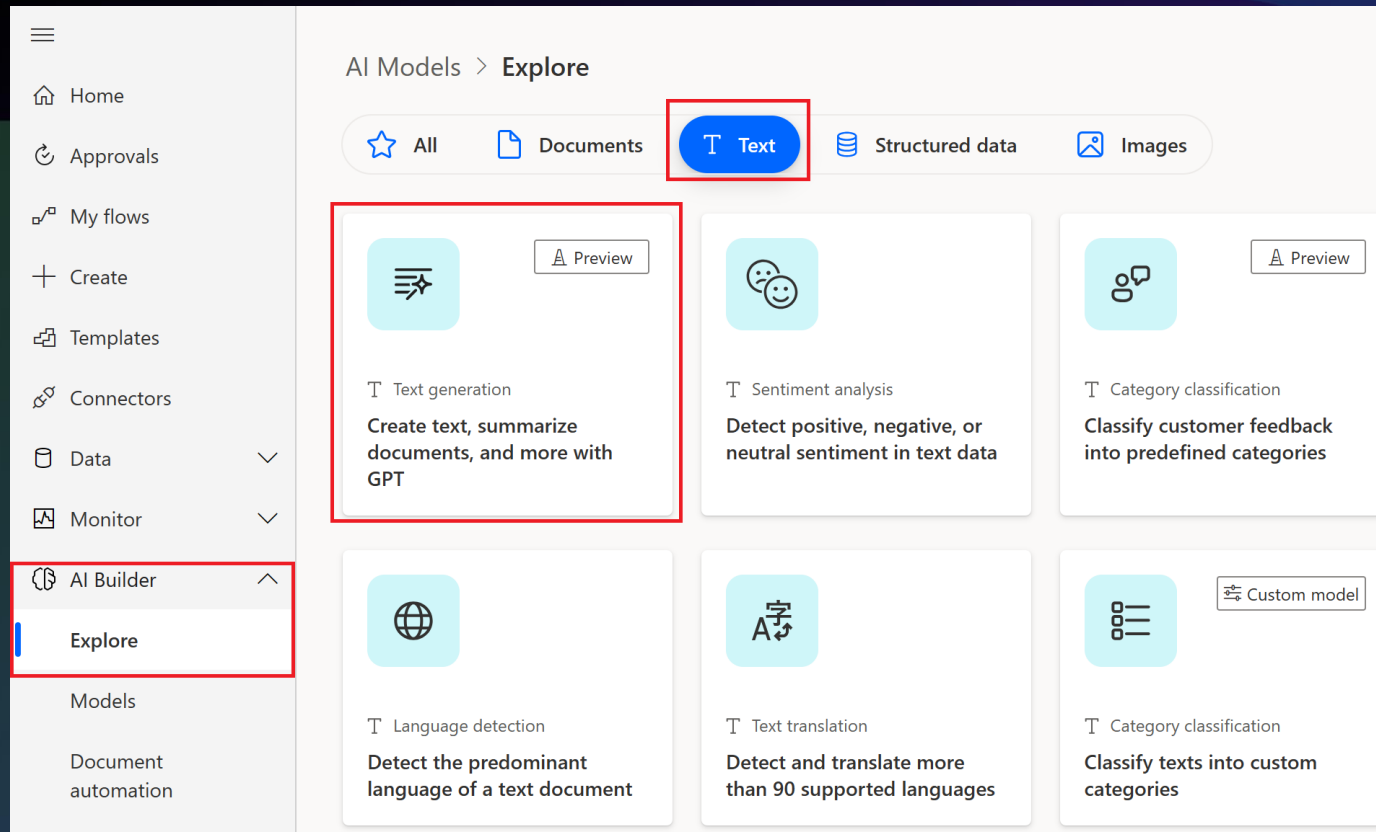
OpenAI in Power Apps

What is the Azure OpenAI Service?

- Microsofts' implementation of OpenAI models
- Enterprise grade security and governance
- GDPR (EU)
- Use it just like every other Azure service
- Backs all Microsofts' Copilots
- Request access: <https://aka.ms/pp/azure-openai-service>

Azure OpenAI Service?

- AI Builder has an action based on the Azure Open AI Service



Power Apps Copilot

Let's build an app. What should it do?

Collect RSVPs

Track sales leads

List inventory

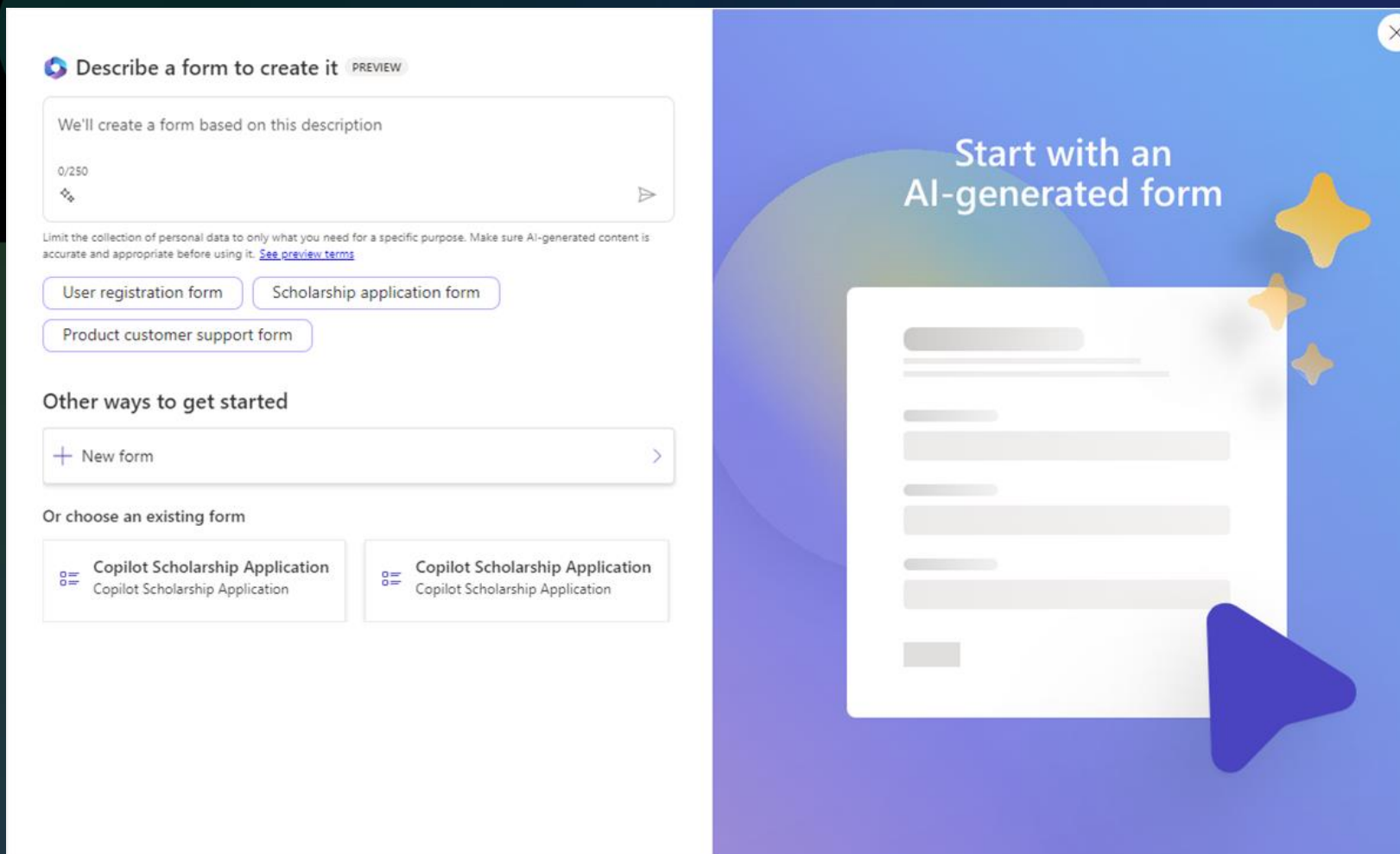
Manage inspections

Use everyday words to describe what your app should collect, track, list, or manage ...



This AI-powered feature is in preview. [See terms](#)

Power Pages Copilot



The screenshot displays the Power Pages Copilot interface, which is split into two main sections. The left section, titled "Describe a form to create it" with a "PREVIEW" tag, contains a text input field with the placeholder "We'll create a form based on this description" and a character count of "0/250". Below this is a small warning icon and a link to "See preview terms". Three buttons are visible: "User registration form", "Scholarship application form", and "Product customer support form". Under the heading "Other ways to get started", there is a "+ New form" button. The bottom section, "Or choose an existing form", shows two identical cards for "Copilot Scholarship Application". The right section is a preview of an AI-generated form, featuring a blue background with the text "Start with an AI-generated form", a white form template with various input fields, and a large blue play button at the bottom right.

Describe a form to create it PREVIEW

We'll create a form based on this description

0/250

Limit the collection of personal data to only what you need for a specific purpose. Make sure AI-generated content is accurate and appropriate before using it. [See preview terms](#)


User registration form Scholarship application form


Product customer support form

Other ways to get started

+ New form

Or choose an existing form

 Copilot Scholarship Application
Copilot Scholarship Application

 Copilot Scholarship Application
Copilot Scholarship Application

Start with an AI-generated form

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Demo

BedtAlme Stories©

What to use when?

- **AI Builder**

Your use case matches one of the pre-defined AI Builder models or you can easily train a custom model.

If you need text “Create text with GPT” is the easiest and fastest way to get an Open AI model into your App

What to use when?

- **Open AI API**

You need generated text, but want more control over which model you want to use and want to set all the parameters yourself (e.g. the system prompt).

Furthermore, you can use fine tuned models or endpoints for image generation or embeddings.

What to use when?

- **Azure Open AI services API**

The results and possibilities will basically be the same as in the Open AI API.

From my point of view the advantages are:

- The data stays in the region of your choice (GDPR) on the Microsoft servers
- You most likely already have an existing Azure subscription

What to use when?

- **Other AI related APIs through custom connectors**
 - There already are other interesting models outside of Microsoft and Open AI
 - There will be new models interesting models outside of Microsoft and Open AI
 - Your company will probably at some point deploy its own generative AI models you want to use inside your Power Platform solutions

What's next?

- Add the OpenAI or Azure OpenAI Service connector to your apps and flows
- Go to the Power Platform Prompt Library to get inspired!
<https://aka.ms/powerplatform-prompts>
- Build awesome solutions with OpenAI powered tools

Power Platform Prompt Library

Discover GPT prompts that you can use in the Power Platform

Filter	Content Results
<div><div>Filter Results</div><div><div>Content Type</div><div><input type="checkbox"/> Prompt</div></div><div><div>Cloud</div><div><input type="checkbox"/> Power Platform</div></div><div><div>Cloud Services</div><div><input type="checkbox"/> Azure Open AI</div><div><input type="checkbox"/> Dall-e</div><div><input type="checkbox"/> Power Automate Copilot</div></div></div>	<div><div>Customer Feedback Automation</div><div>Power Platform</div><div>Build a workflow that gets customer feedback from [Start of Text] Microsoft Forms [End of Text] and adds the feedback to [Start of Text]SharePoint [End of Text]. Send an email follow up to the submitter. Include text in the body that thanks them for submitting feedback.</div></div> <div><div>DALLE-E Prompt Generator</div><div>Power Platform</div><div>I want you to act as a prompt generator for Microsoft's DALL-E AI image generation service. Your job is to provide creative and detailed descriptions that will inspire interesting images from the AI. Keep in mind that the AI is capable of understanding a wide range of language and can interpret abstract concepts, so feel free to be as imaginative and descriptive as possible. For example, you could describe a scene from a futuristic city, or a surreal landscape filled with strange creatures. The more detailed and imaginative your description, the more interesting the resulting image will be. Here is your first prompt: A gothic style portrait of a black cat in 1880's London.</div></div> <div><div>Dummy Text Generator</div><div>Power Platform</div><div>Act as a lorem ipsum text generator. I will provide you with the amount of text I want generated and you will reply with the lorem ipsum text. My first prompt is provide me sample text with two headings with two paragraphs each</div></div> <div><div>Email Generator</div><div>Power Platform</div><div>I want you to act as an assistant. I will provide you with a short text, and you will generate an email from it. The email should be formatted using HTML and prettified.[Start Text] The company is closed due to bad weather. [End Text]</div></div> <div><div>Event Registration Automation</div><div>Power Platform</div><div>Create an automated event registration system. Allow users to register for events, send confirmations with event details, and follow up with attendees post-event</div></div>

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Resources

- <https://aka.ms/powerplatform-prompts>
- <https://aka.ms/pp/design-toolkit>
- <https://aka.ms/pp/azure-openai-service>*

Q & A

Thank You!

