



Microsoft Federal Developer Summit

Building AI Solutions

Sheldon Ledbetter | Integrating OpenAI API with Power Apps |
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AGENDA

- Introduction to OpenAI API
- Overview of Power Platform
- Benefits of Integrating OpenAI API with Power Platform
- Use Cases
- Demo
- Q&A



OpenAI API



What is OpenAI API?

- Provides access to advanced language models, enabling capabilities like language understanding, generation, translation, and summarization
- Can assist with building applications that require natural language understanding and generation
- Natural Language Processing (NLP)
- Customizable model responses
- API calls for various use cases: chatbots, automation, content generation



What is the Power Platform?

- A suite of Microsoft tools for building apps, automations, and data analytics with low-code/no-code capabilities
- Core components: Power Apps, Power Automate, Power BI, Dataverse, and Power Virtual Agents (copilot)
- Easy integration with other Microsoft and third-party services
- Automation capabilities for workflows and business processes
- Powerful data insights with Power BI

Why Integrate OpenAI API with Power Platform?

- **Enhanced Automation:** Use AI to automate complex language tasks, like generating responses, summarizing content, or translating
- **Scalable Solutions:** Handle large volumes of data or requests in workflows using intelligent language processing
- **Improved User Experience:** Provide more human-like interactions in chatbots or virtual agents through natural language understanding



Potential Use Cases

- **Chatbots and Virtual Assistants:** Enhance Power Virtual Agents with more natural, contextual responses
- **Content Generation:** Automatically generate content based on specific topics or keywords
- **Data Insights and Summarization:** Summarize large datasets or documents within Power BI reports
- **Customer Support Automation:** Streamline ticket handling and response creation

Example Workflow: Automating onboarding personnel with email and OpenAI

- **Workflow Overview:**

- **Trigger:** Incoming email in Outlook
- **Power Automate:** Triggered by the email, sends the content to OpenAI API
- **OpenAI API:** Returns relevant information
- **Power Automate:** Sends email to the designated recipient

- **Benefits:** Time savings, enhanced productivity, and streamlined information

Demo

- **Live Demo:** Walkthrough of setting up a simple OpenAI and Power Automate workflow
- **Sample Scenarios:** OpenAI can chat via Teams, chat live in a power app, translate, or generate content within the Power Platform

Getting Started

- **Access Requirements:**

- OpenAI API Key
- Power Platform account and necessary permissions

- **Steps:**

- Register for OpenAI API access
- Become familiar with Power Platform tools and components
- Start with small, simple workflows to test integration



Feedback

<https://aka.ms/summit/feedback>

Q&A

THANK YOU!

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