Microsoft Federal Developer Summit
Building AI Solutions

Sheldon Ledbetter | Integrating OpenAI API with Power Apps | 2024NOV13

AGENDA

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

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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

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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

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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**

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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

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Azure AI - playground

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

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Feedback

https://aka.ms/summit/feedback

Q&A

File location of demos (apps and flows)

[sheldonMM/OpenAIPP · GitHub](#)

Files should be there by end of next week (November 22nd)

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