Building a conversational Teams bot with OpenAl



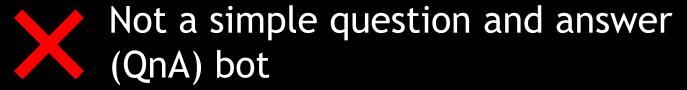
Lee Ford | Solution Architect, Symity

Lee Ford (He/Him)

- Birmingham, UK
- www.lee-ford.co.uk
- @lee_ford
- leeford
- M365 Development
 - Works almost exclusively with MS technologies (M365, Azure etc.)
 - Writes code for a living (and hobby)
 - ► Likes to run (health permitting)



What is a "conversational bot", exactly?



Not a fixed or pre-determined path bot

A bot you can have a conversation with, without any pre-determined outcome

Who or what is OpenAI?

"OpenAl is an Al research and deployment company. Our mission is to ensure that artificial general intelligence benefits all of humanity."

https://openai.com/about/

What can you do with OpenAl?

OpenAl offers different Al-powered products, including:

- ▶ DALL·E 2 generate an image from a description
- ► GPT-3 Natural language conversations/tasks
- ► ChatGPT (preview) trained AI model for in-depth conversations, based on a model of GPT-3.5

A word on ChatGPT

- ► ChatGPT is not to be confused with GPT-3
- ► Currently only **GPT-3** models are part of the OpenAl API, <u>NOT</u> **ChatGPT**

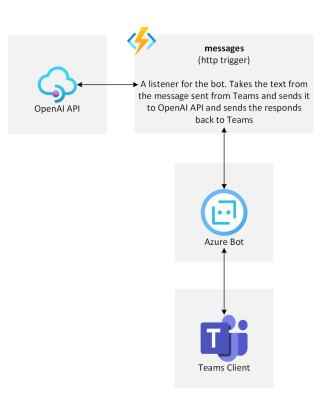
What is GPT-3

- ►GPT-3 understands and generates natural language
- This is achieved using different models (used for different tasks, priced accordingly)

GPT-3 models

LATEST MODEL	DESCRIPTION	MAX REQUEST	TRAINING DATA
text-davinci-003	Most capable GPT-3 model. Can do any task the other models can do, often with higher quality, longer output and better instruction-following. Also supports inserting completions within text.	4,000 tokens	Up to Jun 2021
text-curie-001	Very capable, but faster and lower cost than Davinci.	2,048 tokens	Up to Oct 2019
text-babbage-001	Capable of straightforward tasks, very fast, and lower cost.	2,048 tokens	Up to Oct 2019
text-ada-001	Capable of very simple tasks, usually the fastest model in the GPT-3 series, and lowest cost.	2,048 tokens	Up to Oct 2019

https://beta.openai.com/docs/models/gpt-3



Solution overview

- User sends a message from the Teams client
- Message is sent to the Azure Bot ID defined in Teams app manifest
- Azure Bot sends the message to Bot code that is running in an Azure Function (doesn't have to be an Azure Function)
- Bot sends the text from message sent from Teams to OpenAI API and answer/response is sent back to Teams (in an Adaptive Card)

Demo time!

Thank you for listening

Code sample is part of the PnP Teams Development Samples: https://aka.ms/bot-openai

