

# Applications of Azure Developer Tools Azure OpenAI & GitHub Copilot

Microsoft



DATACOM

So, who am I?

My name is Luke Murray

He/Him

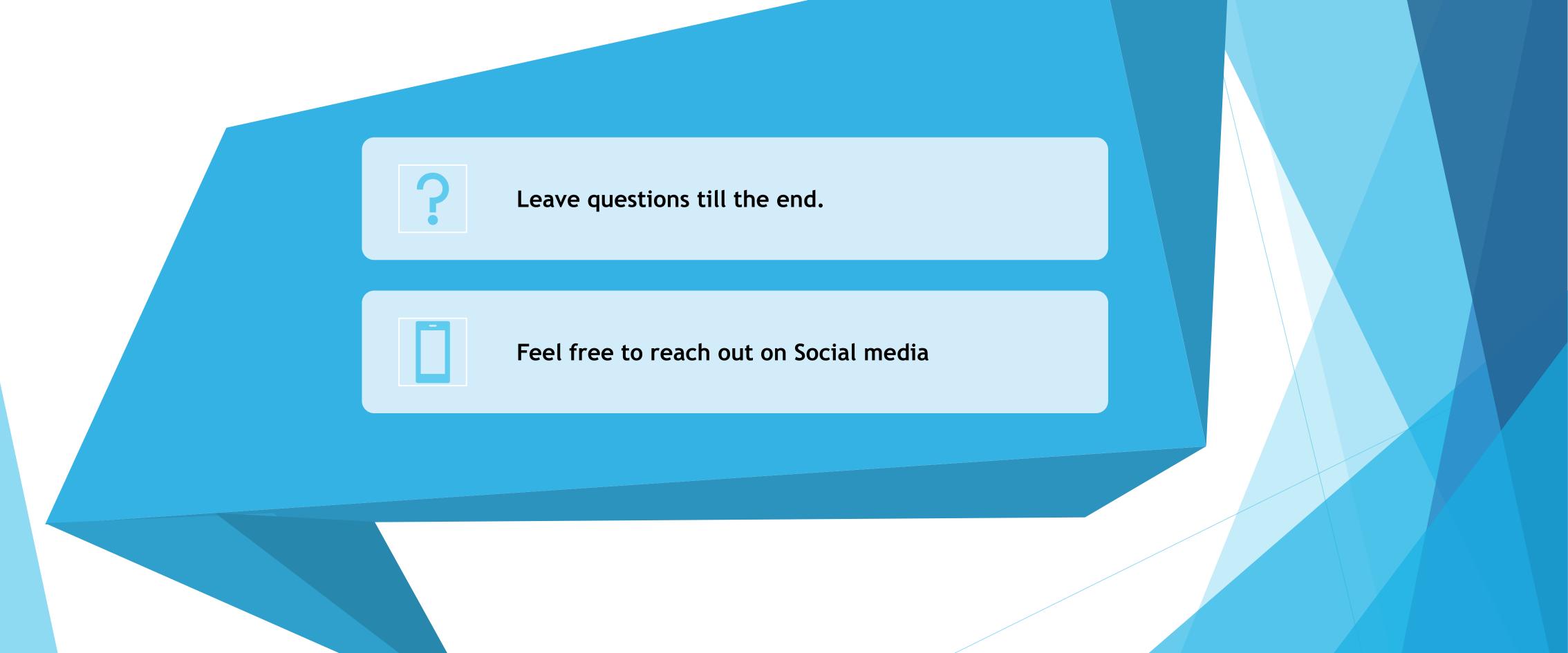
**Senior Consultant at Datacom in** Hamilton, New Zealand.

Feel free to reach out on Social Media, if you need any help:

**Azure Cloud** Commanders



Today, we are going to look into tools that we use every day, and touch on Azure Open AI and GitHub Copilot!



### Microsoft and OpenAl partnership



Ensure that artificial general intelligence (AGI) benefits humanity





Empower every person and organization on the planet to achieve more

**GPT-3.5** 

Text

ChatGPT and GPT-4

Conversation

Codex

Code

DALL·E 2

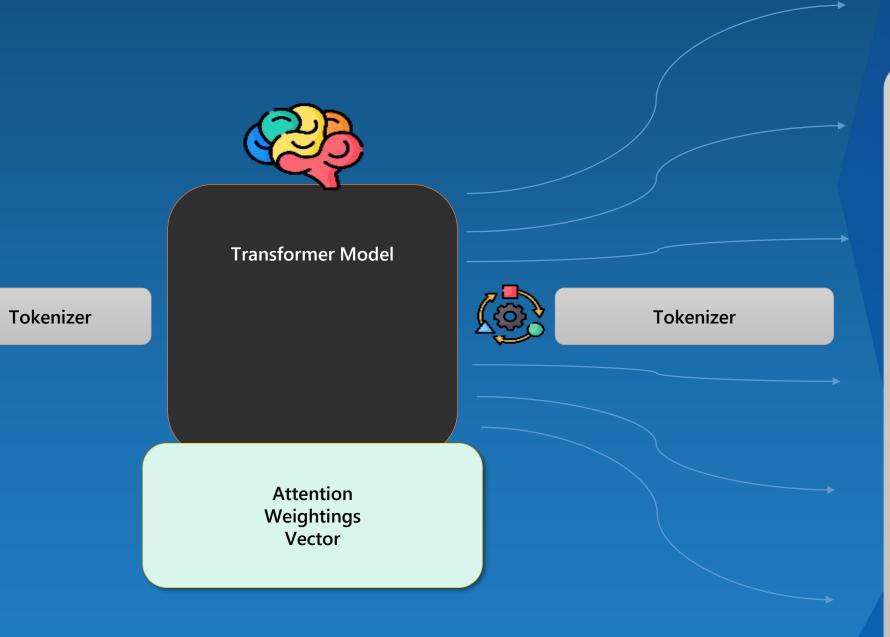
Images

## | OpenAl Key Terms

Extract the mailing address from this email: Hi John Doe, It was great to meet up at Build earlier this week. <u>I thought the AI platform</u> talk was great and I really enjoyed it. I appreciate the offer for the book. If you are OK, you can mail it to me at home, or 123 Microsoft Way, Bellevue WA 92004. Regards, **Chris Hoder Prompt**—Text input that **Completion**—Output that **Token** — partial or full words provides some context to the GPT-3 generates based on processed and produced by engine on what is expecting. the prompt. the GPT models

https://learn.microsoft.com/en-us/legal/cognitive-services/openai/transparency-note







GPT-3.5
ChatGPT (preview)
GPT-4 (preview)



Large, pretrained Language Models that use deep learning to produce text outputs



Custom-tunable AI models with your data



Built-in responsible AI to detect and mitigate harmful use

### Comparison of GPT versions

#### **GPT-3.5**

- Most economical GPT model in Azure OpenAl Service
- Available in Western Europe
- Use-case specific models to optimize inference time and performance
- Suitable for a large range of use cases

### ChatGPT

(preview)

- Should be first choice for most use cases
- For all workloads, not just Chat

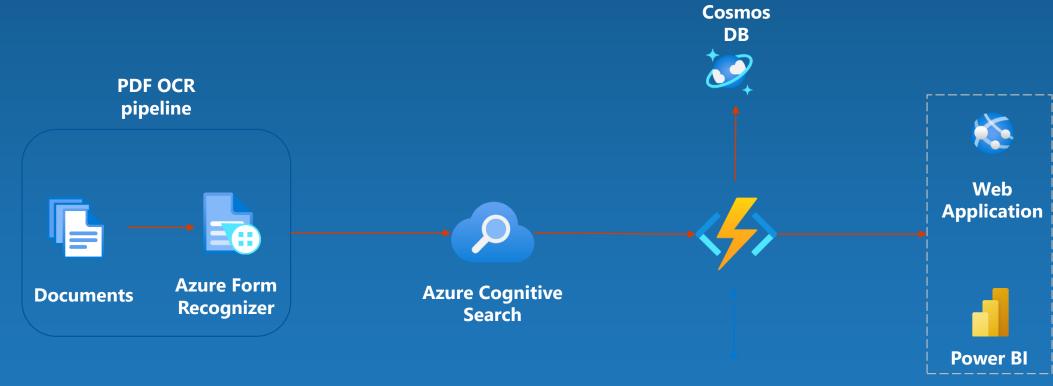
#### GPT-4

(preview)

- Improved problem solving and reasoning capabilities
- Iterative refinement:
  - Paste in code errors & GPT-4 will fix for you
  - Iterate on stories
- Increased token limit works well for long content

### **Document Process Automation**

Extract rich insights from documents and summarize <a href="https://azureaidevs.github.io/hub/2023-aia/day10">https://azureaidevs.github.io/hub/2023-aia/day10</a>





Azure OpenAl Service



tell me about Azure Elastic SAN?

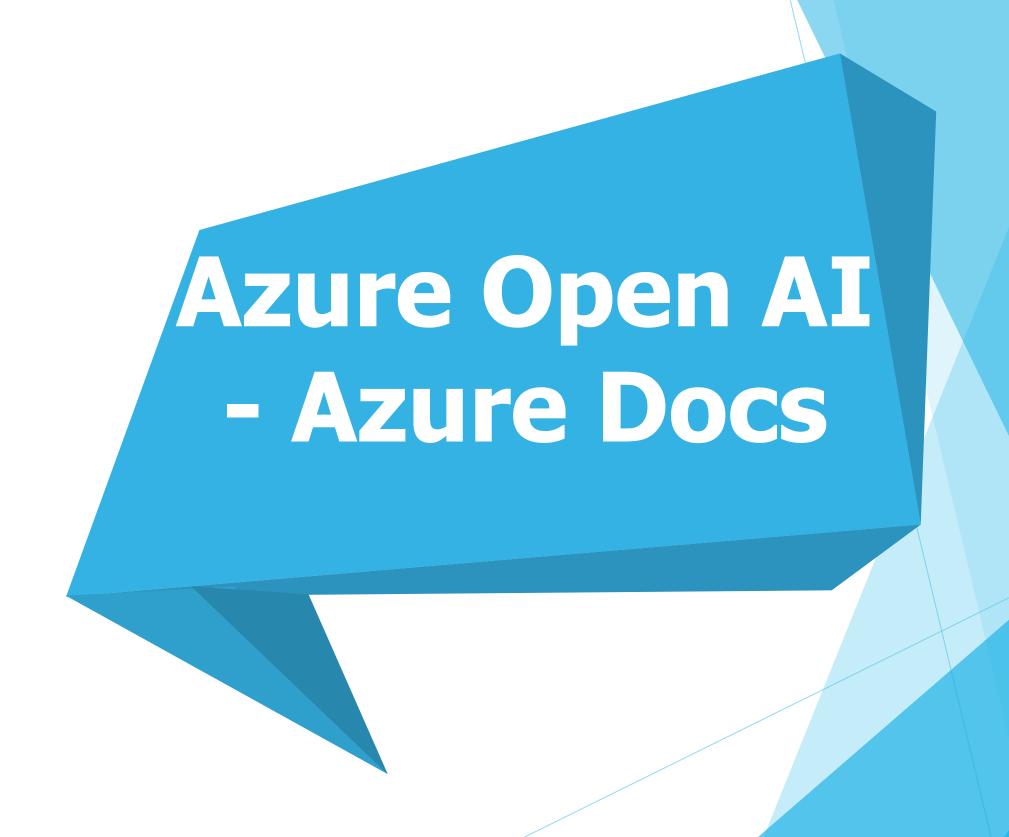
if you don't know, state you don't know and why you don't know



I apologize for any confusion caused. As of my knowledge cutoff in September 2021, I don't have information about a specific service called "Azure Elastic SAN" offered by Microsoft Azure. It's possible that this service may have been introduced or renamed after my knowledge cutoff date. Microsoft Azure frequently updates its services and introduces new features, so it's always a good idea to refer to the official Azure documentation or website for the most up-to-date information on their offerings.

<u></u>公贝

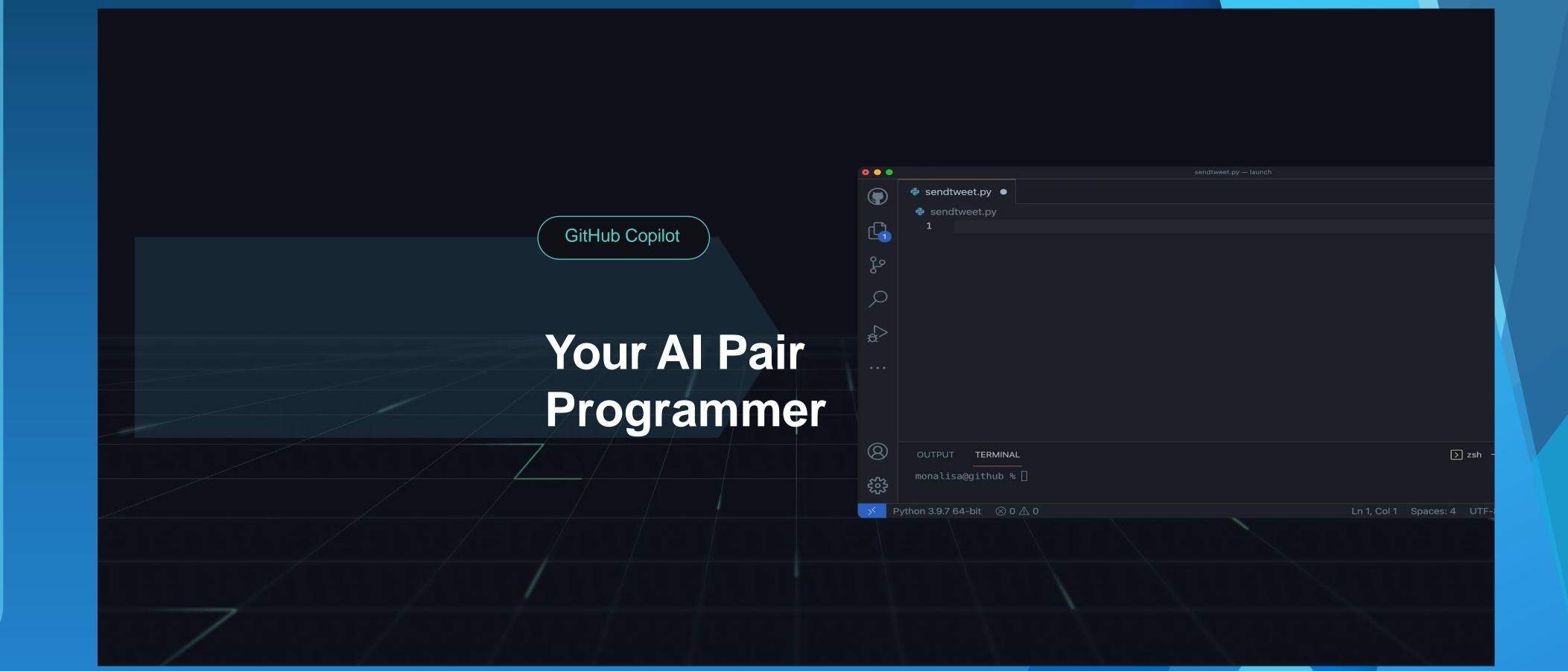




# Next up, Codespaces and GitHub Copilot Chat

Spin up fully configured dev environments in the cloud that start in seconds with up to 60 hours a month free.

Get started for free Plans and pricing



### The main features

# Convert comments to code

# Autofill repetitive code

# **Show** alternatives

```
1 const seconds = 3600
2 const minutes = seconds / 60
3 const hours = minutes / 60
4 const days = hours / 24
5 const weeks = days / 7
6 const months = days / 30
7 const years = months / 12
8 Copilot
```



Codespaces and GitHub Chat

### Do not humanize Al!

Generative Al

### is not:

- Intelligent
- Deterministic
- Trustworthy

Always ensure to use Al output responsibly.

aka.ms/responsibleaiprinciples



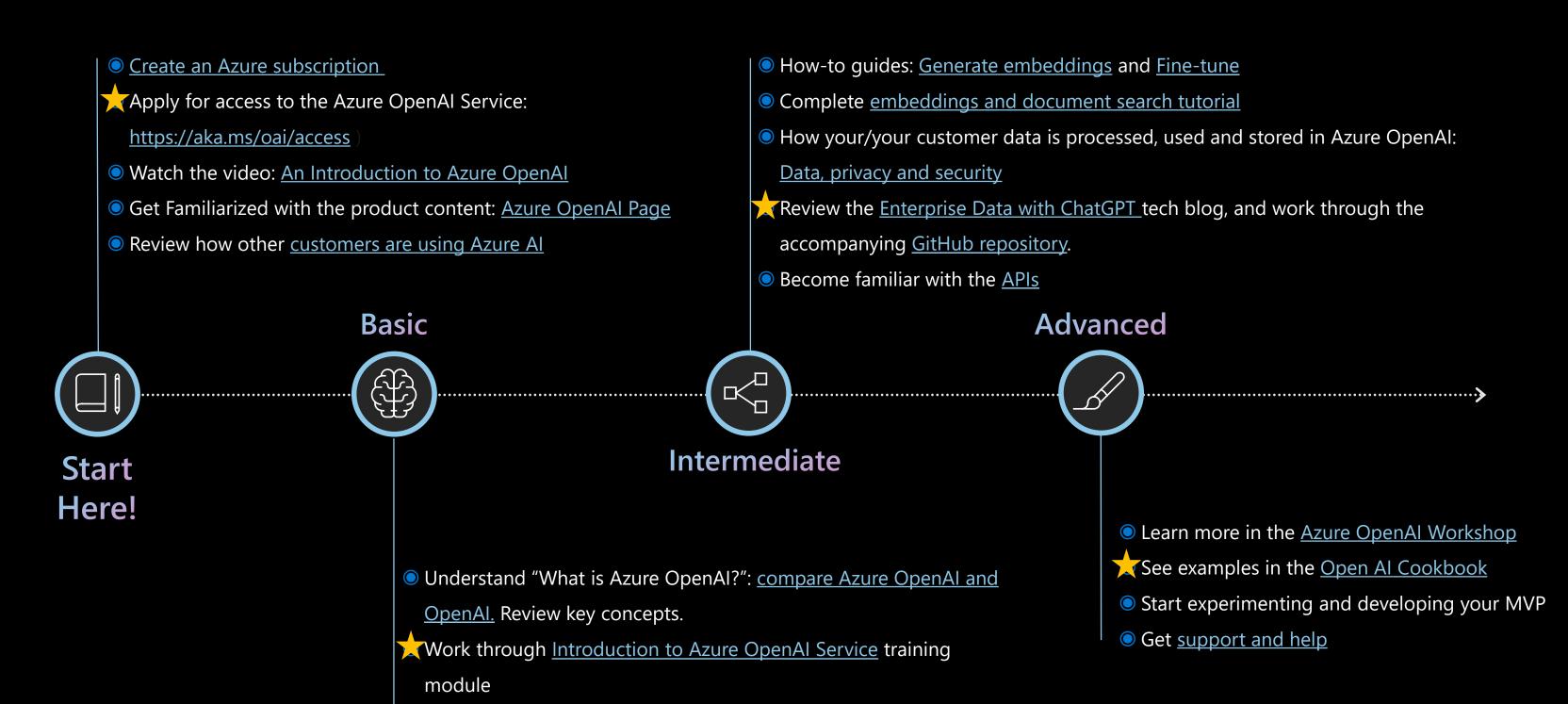
# THANK YOU!







# Azure OpenAl Service Learning Guide



Explore key <u>Responsible Al</u> guidelines and principles

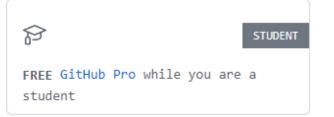
### Get your GitHub benefits

Learn and teach using real-world developer tools

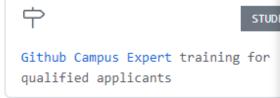
Select the academic status \*



**Benefits for Students** 







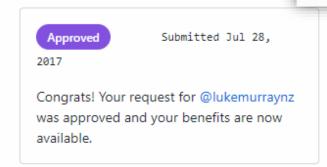
#### To qualify for student benefits, you must:

- Be currently enrolled in a degree or diploma granting course of study such as a high school, secondary school, college, university, homeschool, or similar educational institution.
- Have a verifiable school-issued email address or upload documents that prove your current student status.
- · Have a GitHub user account.
- Be at least 13 years old.

#### Offer availability:

 All partner offers are subject to the partner company's terms and conditions and may not be available in all regions.

### You've already submitted 1 request



### GitHub Student Developer Pack

Learn to ship software like a pro. There's no substitute for hands-on experience. But for most students, real world tools can be cost-prohibitive. That's why we created the GitHub Student Developer Pack with some of our partners and friends.

Sign up for Student Developer Pack

Love the pack? Spread the word

https://education.github.com/benefits?type=student



### **Awesome Azure Architecture**

A curated list of AWESOME blogs, videos, tutorials, code, tools & scripts related to the design and implementation of solutions in Microsoft Azure.

This list contains anything that can help with your Microsoft Azure architecture and quickly get you up and running when designing, planning, and implementing services that empower organisations around the planet to achieve more.

This list can be found at <a href="mailto:aka.ms/AwesomeAzureArchitecture">aka.ms/AwesomeAzureArchitecture</a>.