



# Azure Meetup

## FRANKFURT



DEVELOPERS.DE

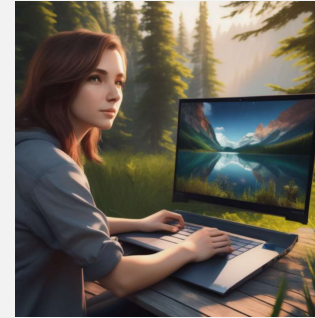


daenet - an  Digital company





*"a friendly AI  
waving from within  
a computer"*



*"a female 30-something  
programmer NO  
GLASSES programming  
on her LENOVO laptop"*

**#thetnewITgirls**

Integrating GPT via  
Azure AI for Enhanced  
Power Automate Flows

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*Anna Fritsch-Weninger, MSc.  
MSc.*

Sessions start at: 5.00PM and 6.15PM

## Online Meeting Rules



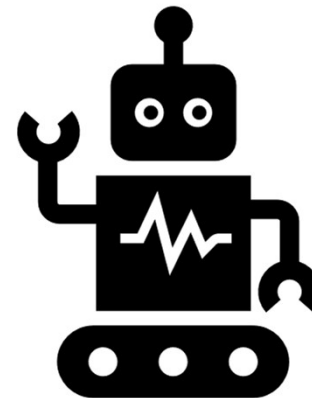
- If not muted, mute yourself.
- Ask your questions in the chat window.
- Use mic if you are explicitly asked.
- If you want to show something, we will make you be a presenter
- If you like you can activate your camera. We love to see you all 😊
- Please do not spam the chat window.
- Do not post inappropriate content.
- Have fun. 😊

# Agenda for today

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- What is **Azure OpenAI** and what has ChatGPT got to do with it?
- How can I **access** Azure AI?
- Enhancing a **M365 web application with AI**:
  - **Power Automate** => base data and gateway
  - **Azure OpenAI** => GPT
  - **Python** with VisualStudioCode => Azure OpenAI API
  - **Azure Functions** => putting Azure OpenAI capabilities into a web service
- This presentation is NOT about
  - How AI/language processing generally works, societal implications => developer perspective only

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# Who is my audience for today?

- **You should have experience with:**
  - M365, Power Automate, Azure functions, json, REST APIs, some Python,
- **If you don't:**
  - Follow up with #thenewITgirls for introductory talks on this topic
  - Get in touch with me (e.g. LinkedIn => Anna Fritsch-Weninger)

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# Hands-on?

**[https://github.com/snnnsch/NewItGirls\\_GPT](https://github.com/snnnsch/NewItGirls_GPT)**



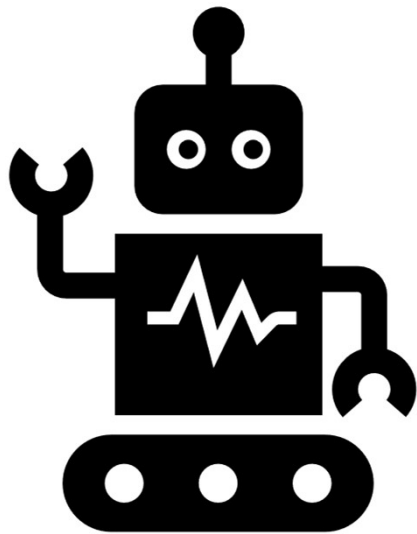
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# Who am I?



- **Anna Fritsch-Weninger, MSc. MSc.**
  - Cloud Solutions Expert @ACP IT Solutions (Vienna, Austria) => **I develop automation solutions for any kind of department / use case**
  - In IT since 2006
  - Education: double Master's in Computer Science and English
  - Microsoft MVP
  - Have the most amazing baby in the world
  - Head of Education and Automation @#thenewITgirls
- **Stack: M365, Power Automate, PowerShell, Azure, some Python (when needed)**

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Introductory question:  
What do YOU do with  
ChatGPT?

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# Approach for today

test tenant ↔ prod  
tenant (licensing)

Processing (fake) company directory data

Azure  
Active  
Directory



Hosting my local Python script as web service

Azure  
Functions



Power  
Automate



Sending and receiving/processing return data from  
web service



Azure AI

Accessing GPT functionality programmatically

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# GPT ↔ Microsoft?



- GPT replied:
- **“Who owns GPT?”**
  - GPT (Generative Pre-trained Transformer) is a type of language model developed by OpenAI, a research organization dedicated to advancing artificial intelligence in a safe and beneficial manner for humanity.
  - While OpenAI is a privately held company, its research is intended to be open and shared with the wider AI community for the benefit of all. **Therefore, it can be said that GPT is owned by OpenAI.**
- **“How are GPT and MS linked?”**
  - In 2019, Microsoft announced a \$1 billion investment in OpenAI, and the two companies have been collaborating on various AI projects ever since.
  - As part of their partnership, **Microsoft has exclusive rights to develop and commercialize some of OpenAI's technologies, including GPT-3** (the latest version of GPT)
  - **Microsoft has integrated GPT into its Azure AI platform**, which enables developers to build AI applications and services using GPT's natural language processing capabilities. Additionally, Microsoft has incorporated GPT into some of its own products, such as Microsoft Office and Dynamics 365, to improve their AI capabilities.

# Azure OpenAI access

- **Pricing for prod environments:**  
<https://azure.microsoft.com/en-us/pricing/details/cognitive-services/openai-service/>
- **Access via Azure Subscription, company address and subscription => Forms:**  
[https://customervoice.microsoft.com/Pages/ResponsePage.aspx?id=v4j5cvGGr0GRqy180BHbR7en2Ais5pxKts\\_o\\_Pz4b1\\_xUOFA5Qk1UWDRBMjg0WFhPMklzTzhKQ1d\\_WNlyQIQCN0PWcu](https://customervoice.microsoft.com/Pages/ResponsePage.aspx?id=v4j5cvGGr0GRqy180BHbR7en2Ais5pxKts_o_Pz4b1_xUOFA5Qk1UWDRBMjg0WFhPMklzTzhKQ1d_WNlyQIQCN0PWcu)
- [Data Processing details](#) for the Azure OpenAI service, and you understand and acknowledge that, in order to detect and mitigate harmful use of the Azure OpenAI Service, Microsoft logs the content you send to the Completions and image generations APIs as well as the content it sends back.

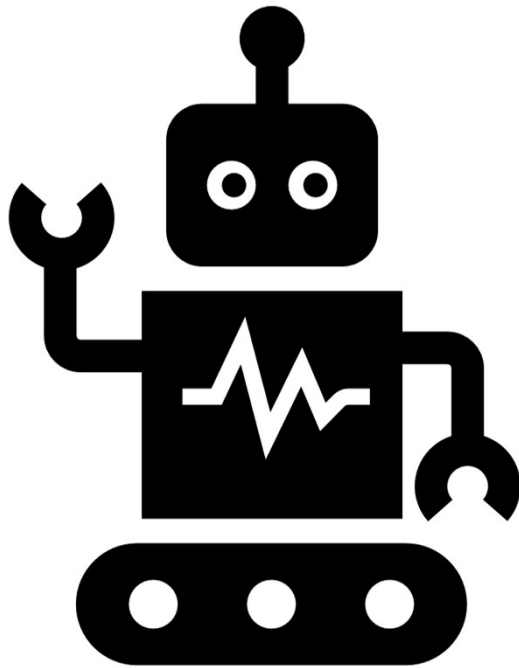
<https://learn.microsoft.com/en-us/azure/ai-services/openai/overview>

## Request Access to Azure OpenAI Service

\* Required

Please read all instructions carefully and complete form as instructed

Thank you for your interest in Azure OpenAI Service. Please submit this form to register for approval to access and use Azure OpenAI's Limited Access text and code and/or DALL-E 2 text to image models (as indicated in the form). All use cases must be registered. Azure OpenAI Service requires registration and is currently only available to approved enterprise customers and partners. Learn more about limited access to Azure OpenAI Service here.



# Azure OpenAI – Setup, Tests

- **(1) Create Azure OpenAI service:**  
[https://portal.azure.com/#@office365.acp.at/resource/subscriptions/44d0ea59-b06f-4954-93b3-2d48605ec03e/resourceGroups/Anna\\_ALL/providers/Microsoft.CognitiveServices/accounts/PublicPresenter/overview](https://portal.azure.com/#@office365.acp.at/resource/subscriptions/44d0ea59-b06f-4954-93b3-2d48605ec03e/resourceGroups/Anna_ALL/providers/Microsoft.CognitiveServices/accounts/PublicPresenter/overview)
  - Contains keys and endpoint
- **(2) Create connected deployment**
  - Contains language model
- **(3) Test model with chat:**
  - <https://oai.azure.com/portal/750cb52e025c4e4398c59b9ae7ec394b/chat>



Scenario: How  
many women  
work at my  
fake IT  
company?

# GPT: Some simple tests

- Testing GPT's possibilities via GUI
- How can GPT help us with this problem

1) PowerAuto  
mate:  
extract all  
employee  
first names

Python-Script

## 2) Local Python script: test classification





## 3) Azure Function

- Python GPT script within web service

## 4) Power Automate: processing web service data

- Power Automate passes on names to Azure
- Azure function returns result to Power Automate for further processing

# Questions?

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# More similar business scenarios



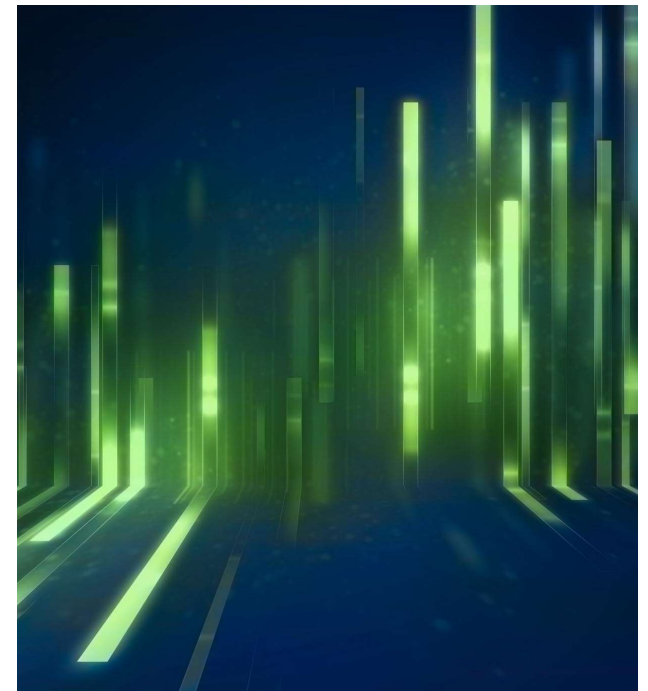
Evaluating **job titles** => how many technical jobs are held by women at a company?



Custom **welcome mails** (new AAD user, location, job title, custom properties ⇔ interests, hobbies, skills) or **bday mails**



Processing of **assigned groups** (title) => suggesting **custom training path** (e.g. groups „Admin“, „Power Automate Community“, „Musik“, ...)



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# Thank you for your attention!

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- Let's stay in touch: <https://www.linkedin.com/in/anna-fritsch-weninger-vienna/>
- **Next webinars (#thenewITgirls TechTrack):**
  - "Getting started with Containers and Kubernetes: A Beginner's Workshop (EN)", **November 17h**
    - [LINK](#)
  - "Automatisierungen und Web-Applikationen mit Microsoft 365 und Microsoft Azure", **December 8th**
    - [LINK](#)



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