

AI Hackathon

By DataFactZ in partnership with Microsoft



Microsoft
Solutions Partner
Data & AI
Azure

June 26th | Wednesday

Session 1

Introduction

Introduction

9:00 - 9:30 AM

- Overview of the hackathon objectives and expected outcomes
- Showcase the final product and concepts to be covered

High-Level Concepts

9:30 - 10:30 AM

- Introduction to LLMs
- Brief overview of Vector Databases

Break

Session 2

Azure OpenAI Hands-On

Deploying a Model

11:00 - 12:00 PM

- Access Azure OpenAI Portal and deploy a 3.5 model
- Explain the API of Azure Open AI to answer general questions
- Run pre-written code to interact with the deployed model

Prompt Engineering and Fine Tuning

12:00 - 12:30 PM

- Tips on prompt engineering
- Introduction to fine-tuning models

Break

Session 3

Fine-Tuning Hands-On

Fine Tuning Demo

1:30 - 2:15 PM

- Demo of the Fine-Tuning Process in DataFactZ Azure Account
- Programmatically make a call to the fine-tuned model

Concepts for Next Steps

2:15 - 2:45 PM

- Explanation of RAG (Retrieval-Augmented Generation)
- Chunking and embedding options

Break

Session 4

Document Intelligence

Azure Documents Intelligence Introduction

3:30 - 4:30 PM

- Create a DI workspace, upload a PDF, and analyze results
- Programmatically replicate the process

Training on custom document extraction

4:30 - 5:00 PM

- Train custom documents using the portal
- Test the trained model to extract data from new files

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June 27th | Thursday

Session 5

Use Case 1

Putting It All Together

- Introduce Azure AI search
- Combine extraction, chunking, and Azure AI search to answer questions from PDFs

9:00 - 10:30 PM

Break

Session 6

Use Case 2

Adapting to the Second Use Case

- Change input documents and prompts for the second use case focusing on past responses, innovations, and best practices

11:00 - 12:30 PM

Break

Session 7

Beyond the Workshop

Concepts Beyond the Workshop

- Discuss limitations, improvements, strategies, and emerging design patterns (Agents, etc.)

1:30 - 2:00 PM

Diwo Catalyst Demonstration

- Showcase Diwo Catalyst with full capabilities

2:00 - 2:45 PM

Break

Session 8

Wrap-Up Session

Discuss Future State Architecture

- Recap of the hackathon, feedback session, and next steps

3:30 - 5:00 PM