DATA FACT | SKANSKA

Embark on a Journey of Innovation:

Mastering AI with Azure OpenAI

Value Quantified in Action

In the end, it's the resulting actions that prove the worth of any analytics engagement.

With our end-to-end expertise, we're with you through that last mile.

The Right Approach

We know Advanced Analytics, and we know how to make it work for you.

Our experience means our clients get successful, scalable transformations, not hype and buzzwords.

Your Secret Data Weapon

Any Analytics initiative is only as successful as the data engineering behind it.

That's why many organizations and technology partners trust us to do their heavy lifting.

Introductions

Quick intro from DataFactZ CEO

DATA FACT

America's Fastest Growing Private Companies

2004
Founded

USA
Headquarters

500+
Employees

Inc. 5000

We've helped some of the nation's leading companies enter a new paradigm of data-driven decisions.

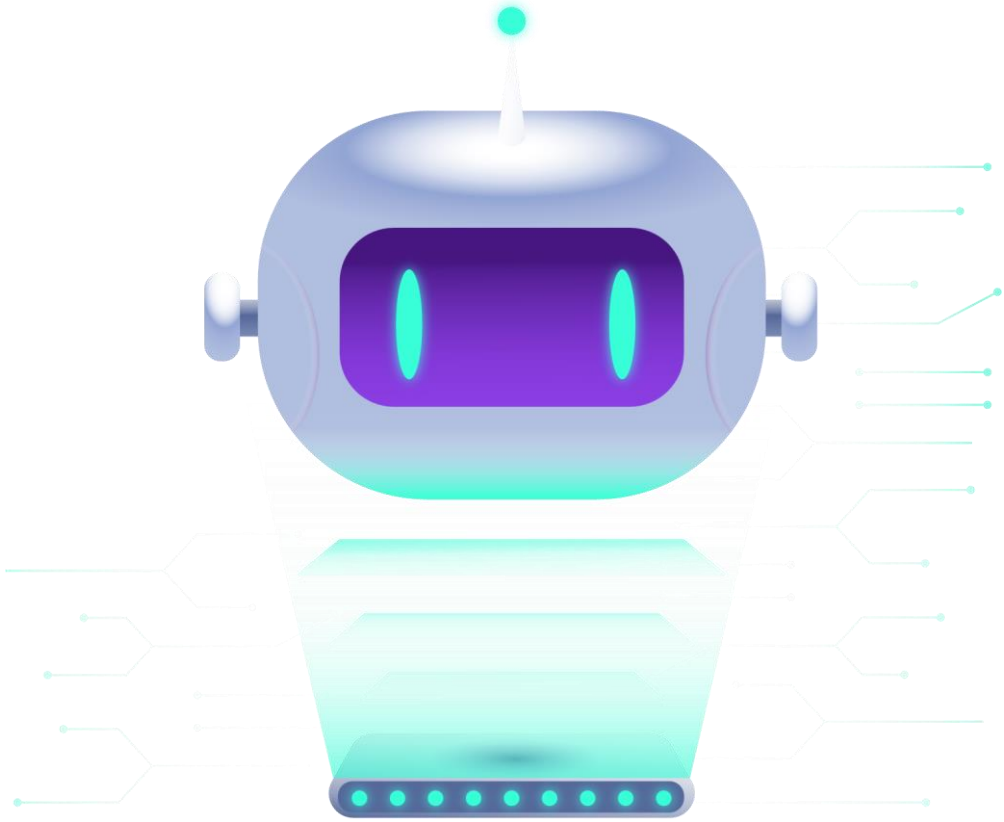
Charter Communications
AF Group
Henry Schein
Boyd Gaming
BNY Mellon
MRM
Wakefern Food Corp.
Hibbett Sports
L'Oréal
radian
BioTelemetry A Philips company
IQVIA
MAXIMUS
CDPHP
ignite sales

Concepts

Introduction to LLMs	01
Brief overview of Vector Databases	02
Tips on Prompt Engineering	03
Getting Started with Fine Tuning	04
Fundamentals of RAG	05

What to expect from this Hackathon

Getting Started with Azure OpenAI	01
Azure Document Intelligence Introduction	02
Azure AI Search Overview	03
DCO Use Case	04
Bid Responses Use Case	05



26th June - Morning Schedule

Session 1: Introduction

Introduction • Overview of the hackathon objectives and expected outcomes. • Showcase the final product and concepts to be covered.	**9:00 - 9:30 AM**
High-Level Concepts • Introduction to LLMs • Brief overview of Vector Databases	**9:30 - 10:30 AM**

Break

Session 2: Azure OpenAI Hands-On

Deploying a Model • 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.	**11:00 – 12:00 PM**
Prompt Engineering and Fine Tuning • Tips on prompt engineering. • Introduction to fine-tuning models.	**12:00 - 12:30 PM**

Break

26th June - Afternoon Schedule

Session 3: Fine-Tuning Hands-On

Fine Tuning Demo • Demo of the Fine-Tuning Process in DataFactZ Azure Account • Programmatically make a call to the fine-tuned model	**1:30 – 2:15 PM**
Concepts for Next Steps • Explanation of RAG (Retrieval-Augmented Generation). • Chunking and embedding options.	**2:15 – 2:45 PM**

Break

Session 4: Document Intelligence

Azure Documents Intelligence Introduction • Create a DI workspace, upload a PDF, and analyze results. • Programmatically replicate the process.	**3:30 – 4:30 PM**
Training on custom document extraction • Train custom documents using the portal. • Test the trained model to extract data from new files	**4:30 – 5:00 PM**

27th June -Morning Schedule

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

27th June - Afternoon Schedule

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**

Landing Page skanska.datafactz.com

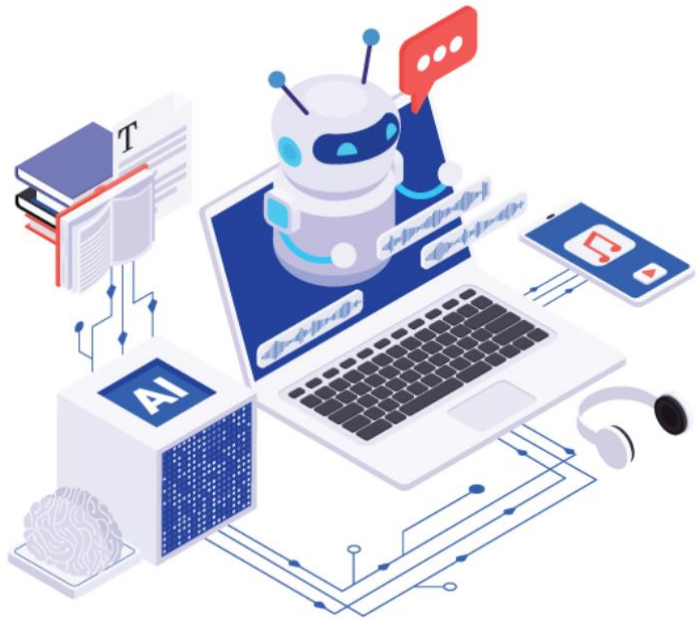
DATA FACT Z

Microsoft

About Schedule Modules

Skanska GenAI Hackathon

By DataFactZ in partnership with Microsoft



Thank you!

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