

Leveraging Large Language Models - A Question Answering Use Case on SAP AI Core

Nora von Thenen, Developer Advocate, SAP

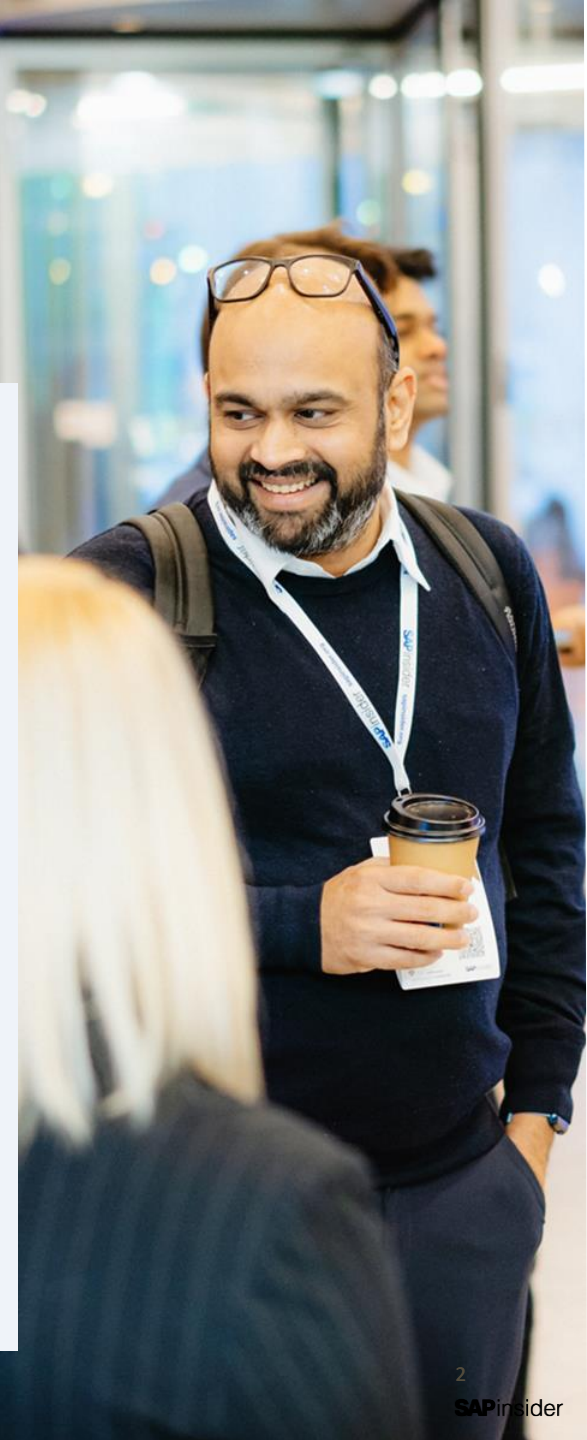
Las Vegas

2024

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What We'll Cover

- AI Foundation
- Use the generative AI hub on SAP AI Core
- Learn how to leverage and customize language models with custom data
- Use the Python SDK of the generative AI hub
- Wrap-Up



AI buzzwords

fine-tuning

retraining

ChatGPT

langchain

Large Language Model (LLM)

hallucination

Foundation Model

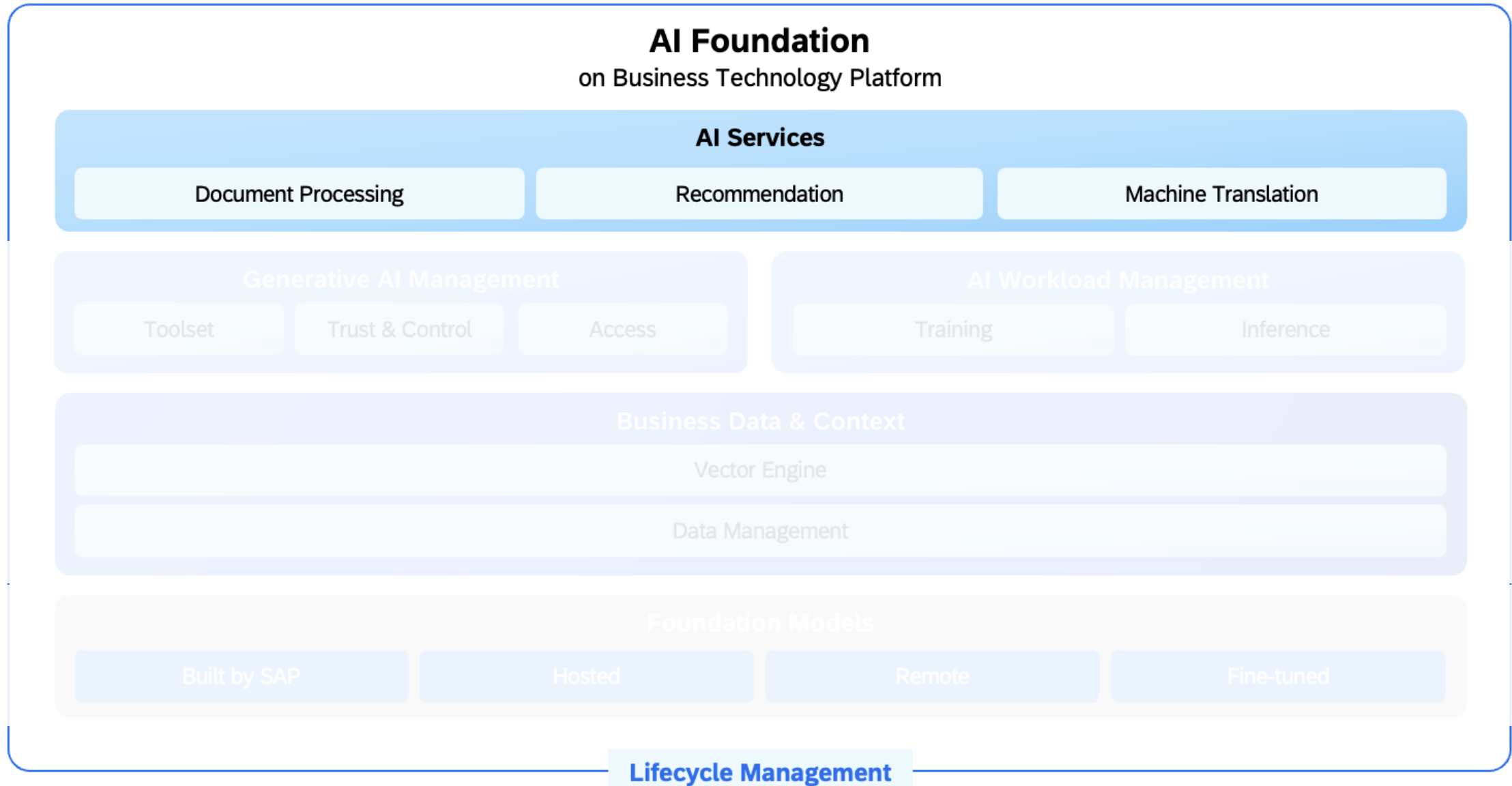
Transformer

Generative Pretrained Transformer (GPT)

Retrieval Augmented Generation (RAG)

Agents

A complete set of services for AI developers on SAP BTP



Prompt Engineering

- Make prompt as specific as possible
- Be creative and try different prompts/wording
- Chain-of-Thought Prompts: clear instructions: “first do this then do that”, “if this do that”
- Zero-shot prompting
 - “Translate this sentence from German to English:
Wir sind in Las Vegas!”
- Few-shot prompting (give examples/shots)
 - “Ich heiße Nora. – My name is Nora.
Wir sind in Las Vegas! – ?”
- More complex prompts you can find here:
<https://www.promptingguide.ai/techniques>
- Feed output again and ask for feedback
- Roles in GPT interface to feed history: system, user and assistant

Demo

Key Points to Take Home

- Compare performance of LLMs – use cheapest and fastest
- Prevent model hallucinations
- Python SDK for generative AI hub for complex use cases
- Biases in LLM output
- Ethical considerations of use case

Where to Find More Information

<https://www.youtube.com/watch?v=MEJJnzNjGKE>

- SAP Developers YouTube Channel tutorial video on prompting the generative AI hub

Nora von Thenen, “SAP Tech Bytes: Prompting Large Language Models in the generative AI hub on SAP AI Core”

<https://developers.sap.com/tutorials/ai-core-generative-ai.html>

- Tutorial on how to use the generative AI hub on SAP AI Core

Dhrubajyoti Paul, “Prompt LLMs in the generative AI hub in SAP AI Core & Launchpad”

<https://pypi.org/project/generative-ai-hub-sdk/>

- SDK documentation for the Python SDK of the generative AI hub

<https://github.com/SAP-samples/sap-tech-bytes/tree/2024-29-01-generative-ai-hub>

- Example code for a retrieval augmented generation use case for question answering using the generative AI hub and the Python SDK

https://api.sap.com/api/AI_CORE_API/overview

- Postman collection for SAP AI Core API

<https://www.youtube.com/watch?v=PoZxanevWa4>

- Devtoberfest Session on Large Language Models by Karim Mohraz

Thank you! Any Questions?

Nora von Thenen

[Twitter.com/nora_von_thenen](https://twitter.com/nora_von_thenen)

[Linkedin.com/in/nora-von-thenen](https://linkedin.com/in/nora-von-thenen)

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evaluation.

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