

# AI-Infused Precision

Rethinking Project Estimations





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What prompted  
us to bring up  
this topic?



## Questions to answer today:

- What makes the process of estimation so challenging?
- Can AI help you in project planning?



# Why do you need estimations?



Project Planning

- resources
- budget
- time



Risk Management



Stakeholder Confidence



What makes It so complex?

# What makes It challenging?

Uncertainty

Changing Requirements

Inadequate Requirements Analysis

Complexity

Human Factors

Technical Debt

External Factors

Lack of Historical Data

# What is usually easy to forget?

## Common pitfalls



# Common Aspects Often Overlooked During Estimations

Dependencies

End-to-End  
Testing

Clear Definition of  
Done (DOD)

Integration Efforts

Non-Functional  
Requirements

Documentation

Training and  
Onboarding

Review and  
Feedback Cycles

Code Readability

AI, help us, please!



# Our plan:

Collect project data

Import and vectorize collected data

Use Azure AI (vector) Search

Start the conversation with ChatBot

Direct the model through conversations





## Relevant data:

- Project Documentation
- Backlog (Epics, user stories)
- Git commit history
- Code Quality Metrics
- CVs of the developers
- And more...

# Azure Services



Subscription



AI Services



Resource Group



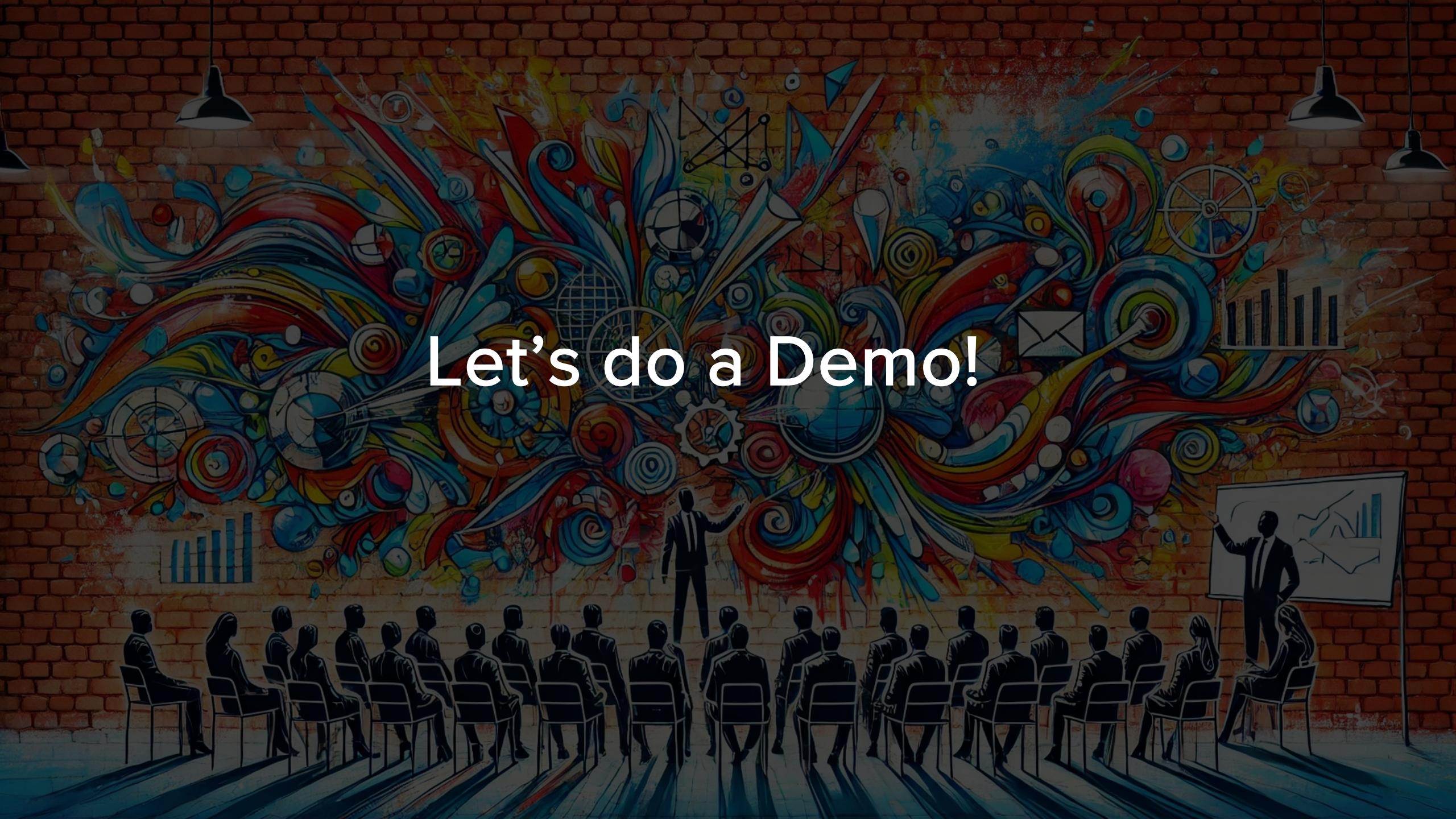
Blob Storage



AI Search



Key Vault



Let's do a Demo!

# Next step: models deployments

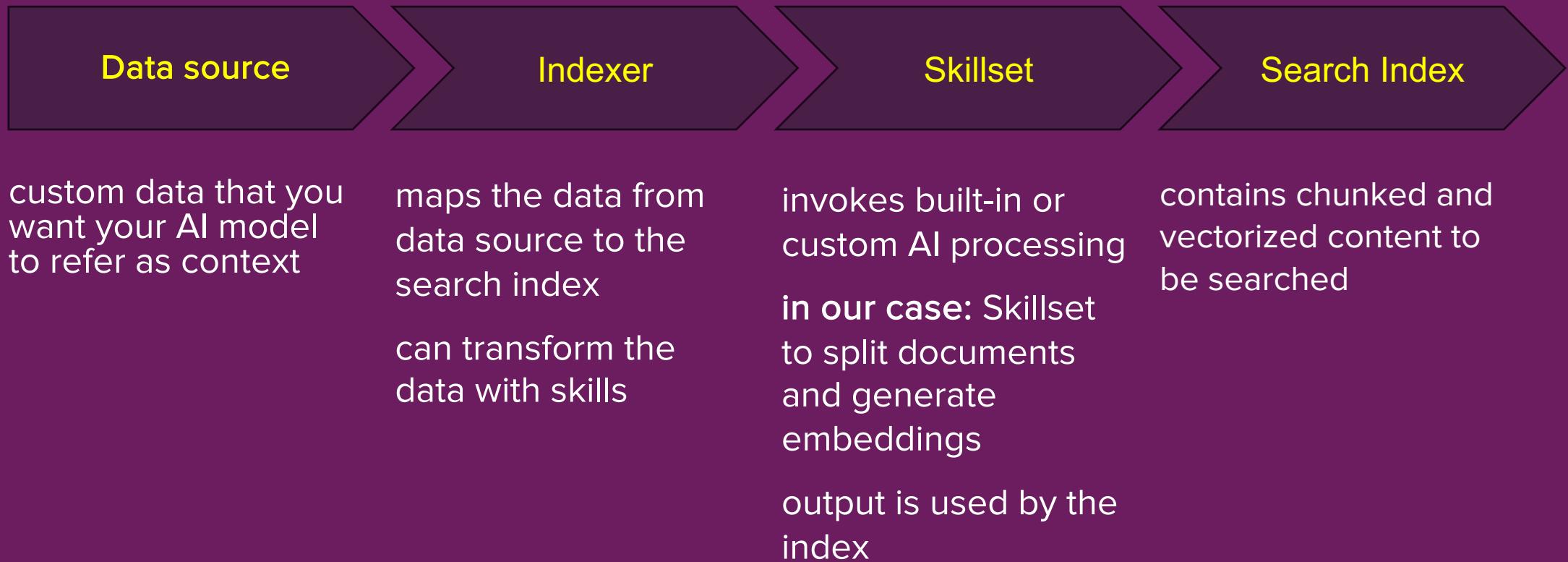
**gpt-4o**

For chat completions

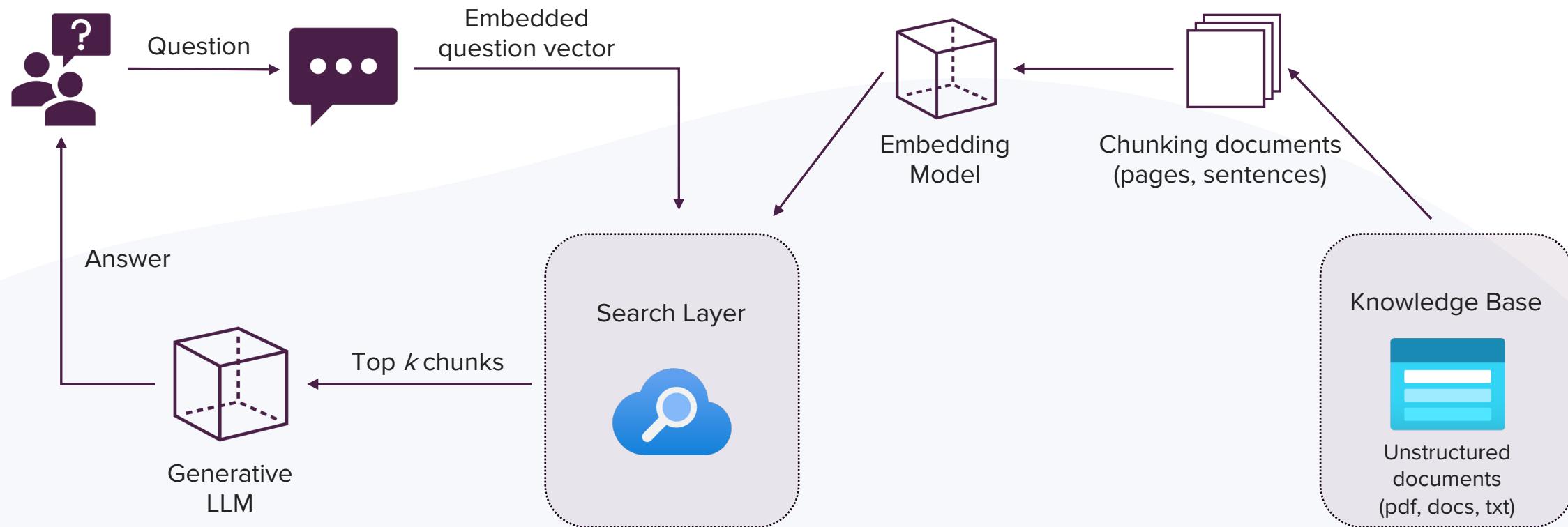
**text-embedding-ada-002**

For creating vector embeddings and  
allow us to perform vector, semantic  
and hybrid searches

# Understand the Terminology



# Bigger picture



# ONE MORE DEMO

ONE  
MORE  
DEMO



# Key Takeaways

AI can help you in estimating if you have enough relevant data

Commit history with timestamps was very useful

Good System Message is important for a proper direction for ChatBot

Adding references and examples in your prompts is important

Some features are still in preview



# More thoughts...

Reusable setup for other purposes

Meeting transcripts

Extend Knowledge Base with time (team setup changes, team calendar, more documentation...be creative ☺ )





THANK YOU