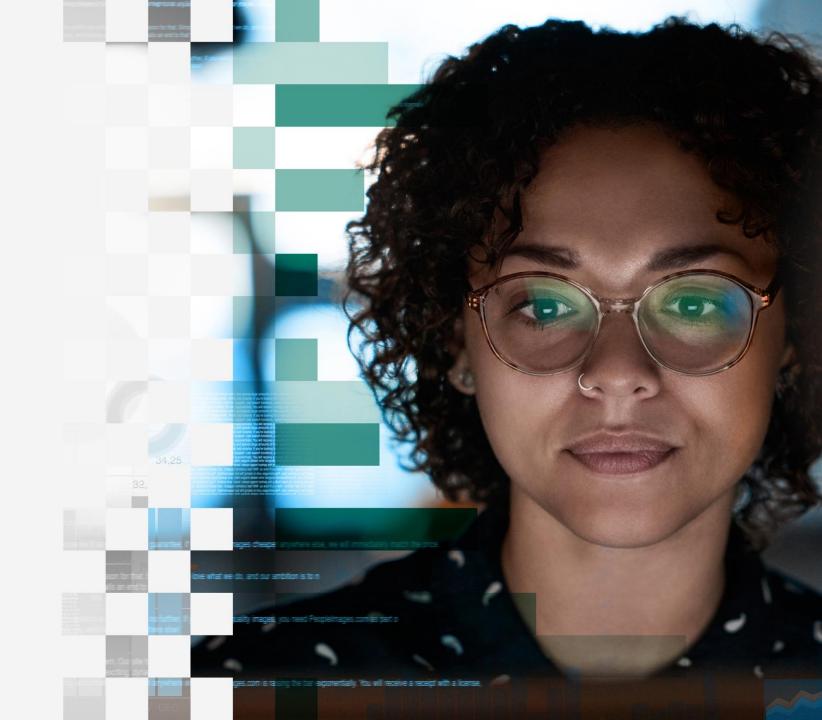


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Azure Al & Azure SQL DB: **Using Data to Power Up Your Skillset and Career**

Matt Gordon

Microsoft Lead Data Architect, Centric Consulting, USA





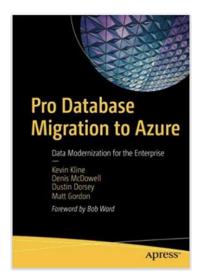


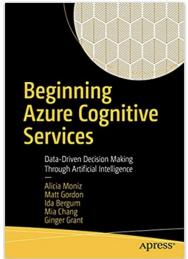
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About Me

- 20+ years of on-prem/cloud SQL experience
- Microsoft Data Platform MVP
- Redgate Community Ambassador
- Led cloud migrations large and small
- Worked on Azure AI since 2017
- Leader of Lexington, KY (USA) Data Technology Group







What Is AI (and What Isn't It)?

- The media says it's ChatGPT
- Some people say it's a lot of hype
- My son said "it's just a bunch of if/then statements that run really fast"
- Oxford Languages says it's "the theory and development of computer systems able to perform tasks normally requiring human intelligence, such as visual perception, speech recognition, decision-making, and translation between languages."

What Is AI To Data People?

- It's Copilot experiences in our development environments
- It's a robot tuning our code and our developers' code
- It's ChatGPT helping us program in a language we don't know or breaking coder's block if we're stuck
- It's enabling accessibility for people who have physical challenges to typing and other actions
- It's an annoyance maybe our manager thinks they don't' need us anymore because "the AI" will do it all

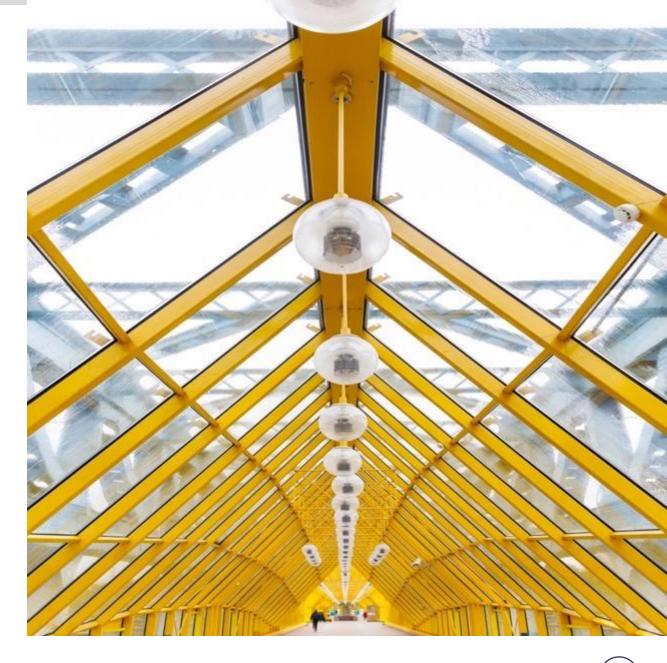


Azure Cognitive Services

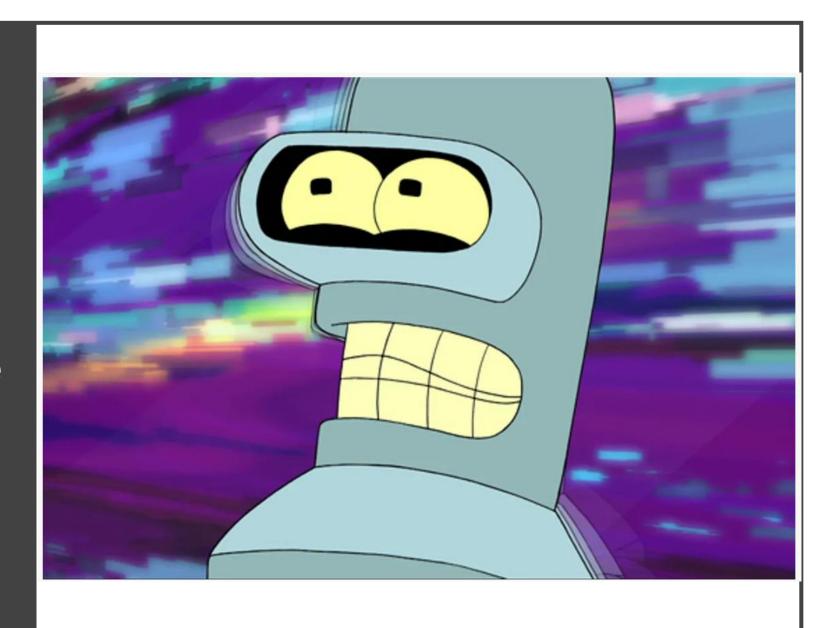
- Speech
- Language
- Translator
- Vision
- Azure OpenAI
- Rebranding over time (quickly) as Azure AI

How Can I Use Azure Al APIs?

- Logic Apps
- Power BI
- Power Apps
- Power Automate
- Studio "experiences"
- REST API calls



Al-Powered New Employee Welcome Bot



Copilot in Azure Data Studio

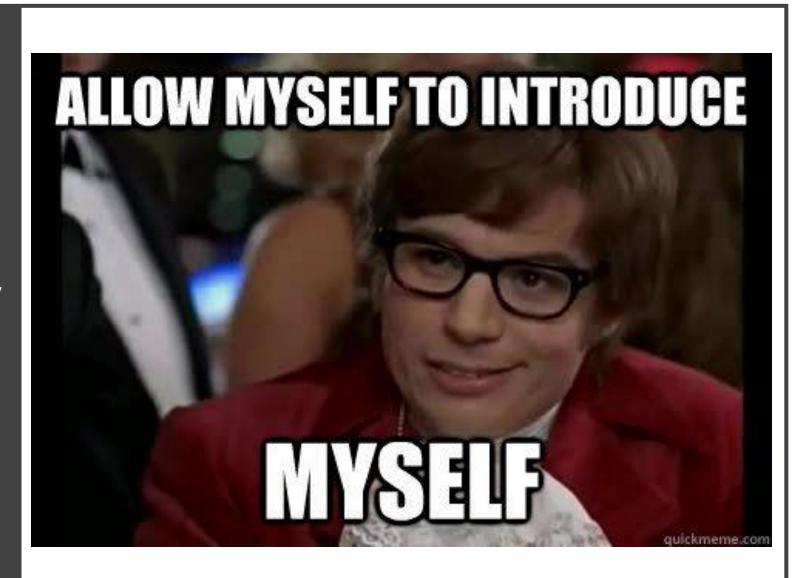


Image credit: Alamy

Al Responds to Angry Emails with Power Automate



ChatGPT, Meet My Database



Database, Meet ChatGPT

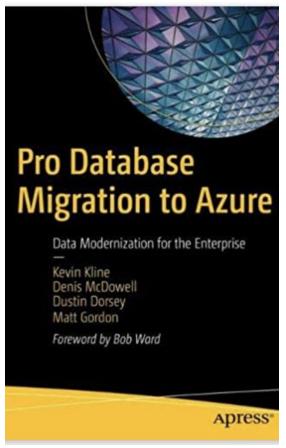


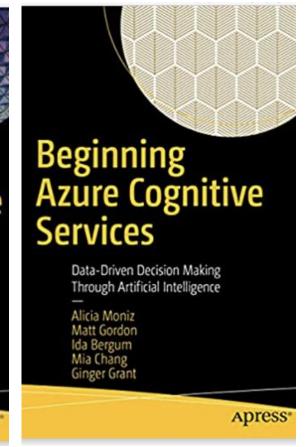
What Comes Next?

- Connect to your data via Azure OpenAI in Copilot Studio
- Vector Search in Azure SQL Database
- RAG (Retrieval Augmented Generation) calling OpenAl from Azure SQL Database
 - Refines LLMs with external data from our database
- Follow Davide Mauri on LinkedIn/Twitter/etc. for breaking news and examples of Azure AI/Azure SQL use
- Something we haven't heard of yet...

How Will Al Impact Data People?

- It can help us do our jobs
 - Conversation bots to handle mundane and/or repeated questions
 - Copilot experiences in ADS and other tools
 - Automated responses to tickets, emails, etc.
 - Create our own data dictionaries using the power of LLMs?
 - ChatGPT-style conversations over our data
- We're already surrounded by it
- This session will change every time I present it that's the speed of development in this space
- It's overhyped, but don't dismiss it engage with it (and maybe have a little fun)





The Slide Where I Sell My Books

- Cognitive Services book

Database Migration book

Thanks For Attending!

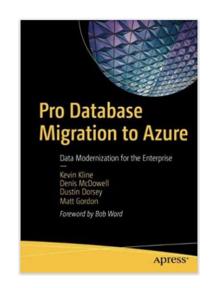


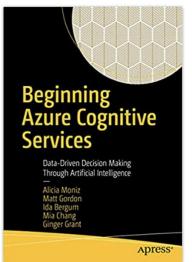
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https://github.com/sqlatspeed/2024_presentations

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aka.ms/SuperUsers

Spread your Fabric knowledge, insights, and best practices with others



aka.ms/MVP

Technology experts that share their knowledge and passion with the community



Please rate this session on the app













Resources

- Buck Woody's generative AI session
- Copilot for Azure Data Studio
- GitHub Copilot in Azure Data Studio Warwick Rudd's presentation
- Language Studio
- Speech Studio
- Vision Studio
- Brian Spendolini's Azure SQL/OpenAl blog
- Buck Woody's Azure SQL/OpenAl Azure Data Studio blog
- Chat with your data in Azure SQL Database
- RAG with OpenAl and Azure SQL Database Davide Mauri