Use AI To Make Your Data Job Easier (and More Fun)

Matt Gordon

SQL Saturday Minnesota – September 30, 2023

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Thanks to all our sponsors of 2023!

We need Speakers & Sponsors for 2024 PASSMN Meetings!

- Sign up to present at one of the monthly meetings!

Monthly Meetup: 3rd Tuesday of Each Month

Signup on Meetup: https://www.meetup.com/MN-SQL-Server-User-Group-PASSMN/

Board Member Elections in November/December:

- Your chance to help the MN Data/SQL Community!

Connect, share, & learn with peers and thought leaders while celebrating all things data for a week of learning and networking opportunities.

November 13th Through November 17th in Seattle, WA

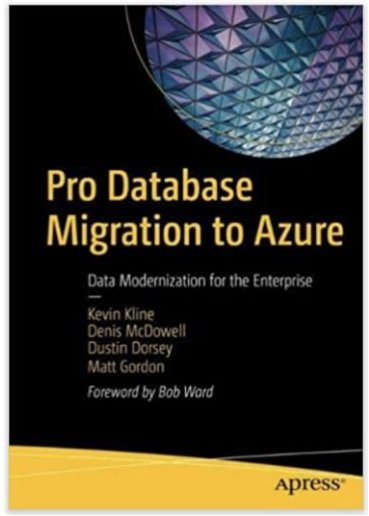
https://passdatacommunitysummit.com/

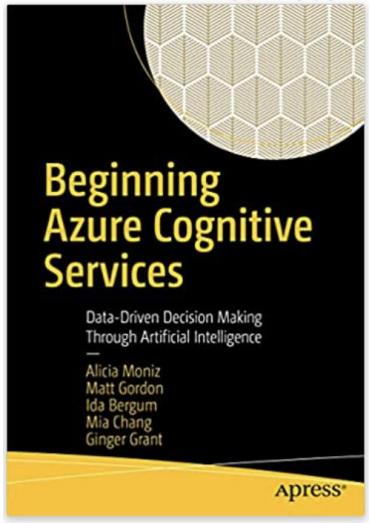
((CENTRIC))

Matt Gordon
Senior Architect
matt@sqlatspeed.com

: @sqlatspeed

www.sqlatspeed.com





About Me

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

I FOR ONE WELCOME
OUR NEW ROBOT OVERLORDS
imgflip.com

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?

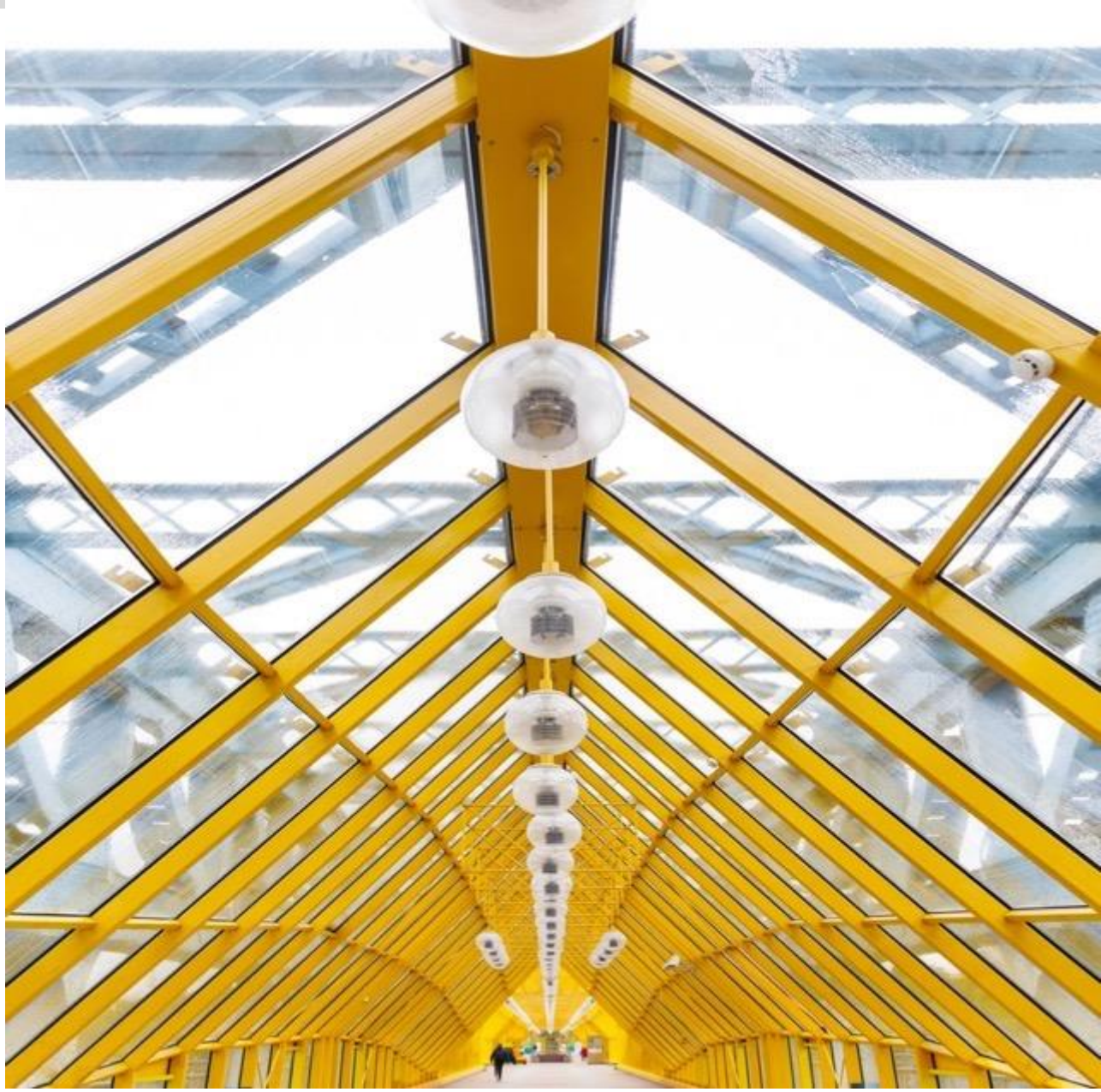
- It’s Copilot experiences in our development environments
- It’s a robot tuning our code and our developers’ code
- It’s ChatGPT helping us program in a language we don’t know or breaking coder’s block if we’re stuck
- It’s enabling accessibility for people who have physical challenges to typing and 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
- Vision
- Decision
- Azure OpenAI
- Rebranding over time as Azure AI

How Can I Use Azure AI APIs?

- Logic Apps
- Power BI
- Power Apps
- Power Automate
- Studio “experiences”
- REST API calls



AI-Powered New Employee Welcome Bot

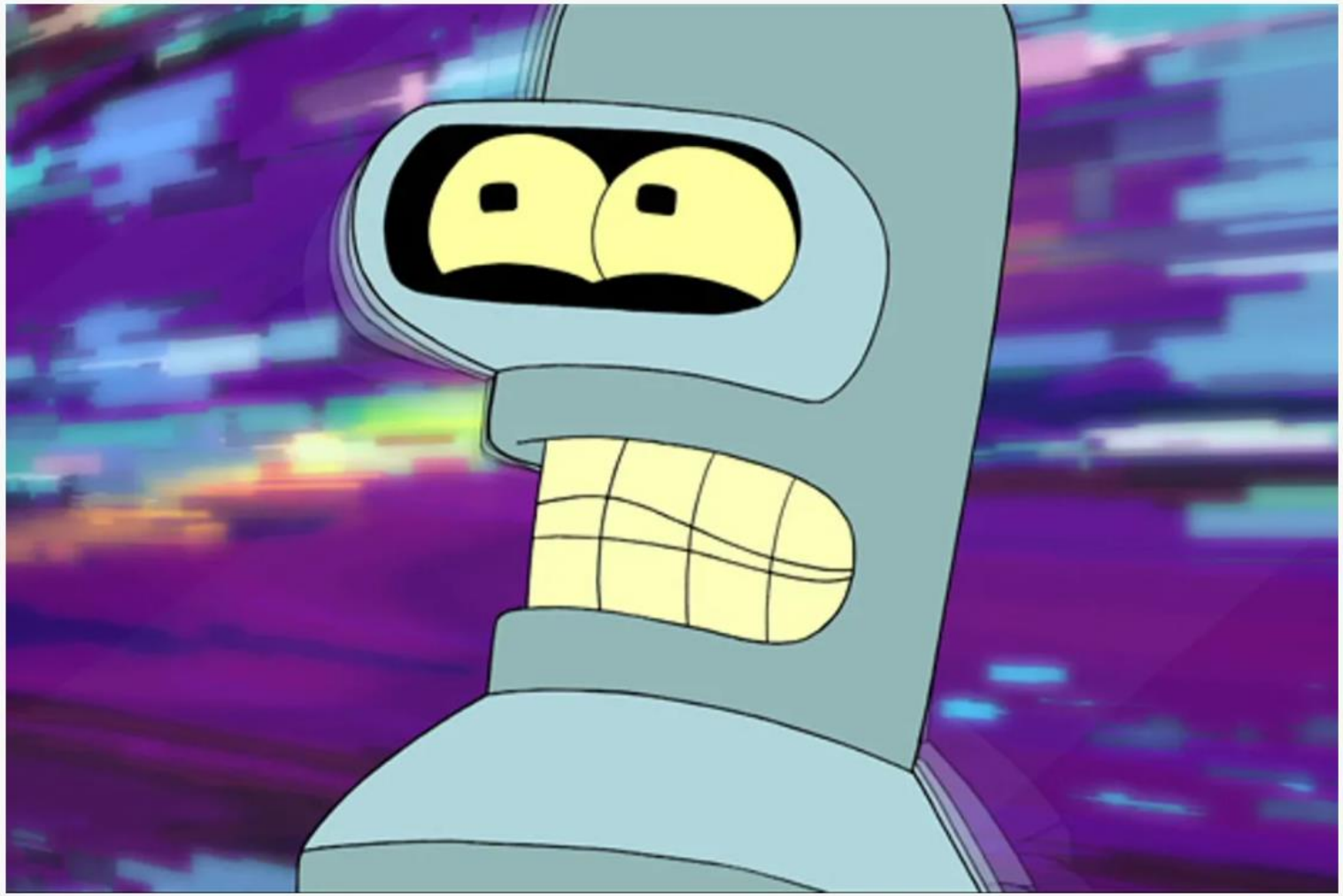


Image credit: FOX/Comedy Central

Copilot in Azure Data Studio

Image credit: Alamy

AI Responds to Angry Emails with Power Automate

Image credit: DriveTribe Facebook/BBC

AI Writes “A Song”…and Performs It?

Image credit: Getty Images/iStockPhoto

ChatGPT, Meet My Database

Image credit: New Line Cinema

How Will AI 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.
  - Side careers as poets?

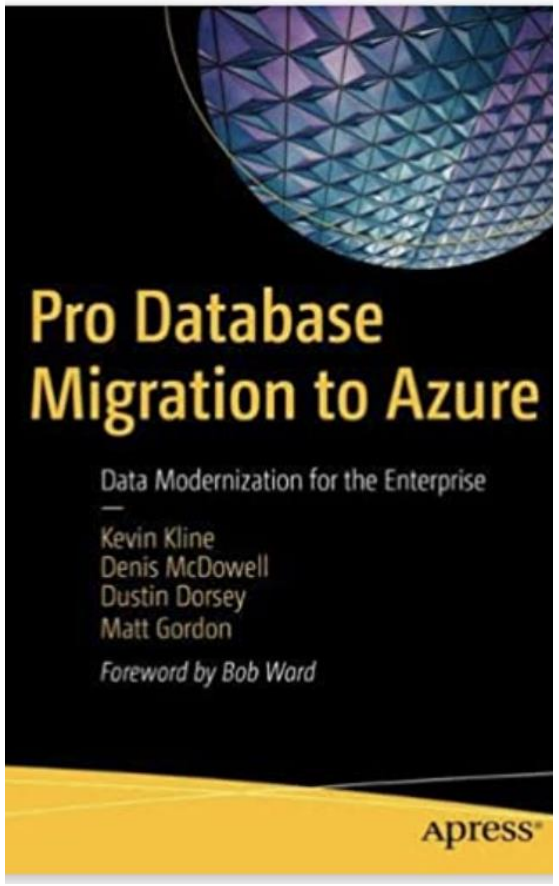
- We're already surrounded by it

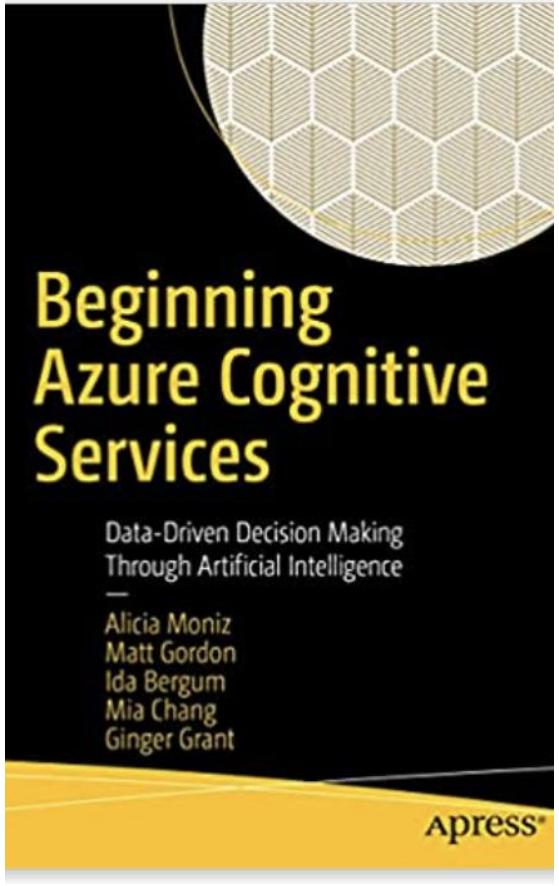
- This session will change every time I present it – that's the speed of development in this space

- It's overhyped, but don't dismiss it – engage with it (and maybe have a little fun)

Resources

- Buck Woody's generative AI session
- Copilot for Azure Data Studio
- Language Studio
- Speech Studio
- Vision Studio
- Brian Spendolini's Azure SQL/OpenAI blog
- Buck Woody's Azure SQL/OpenAI Azure Data Studio blog





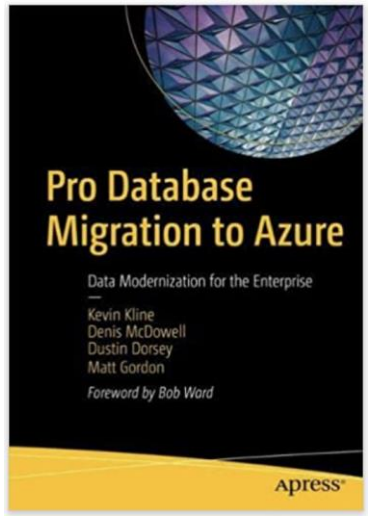
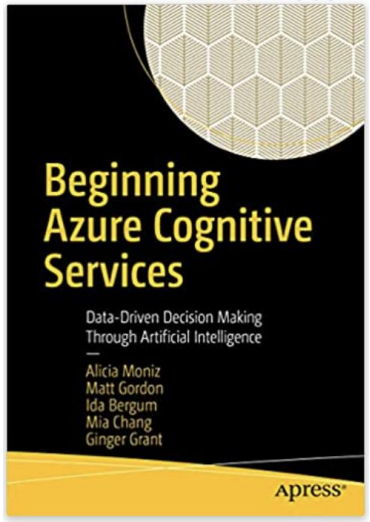
The Slide Where I Sell My Books

- Cognitive Services book
- Database Migration book

Thanks For Attending!

Matt Gordon
Senior Azure Architect
matt@sqlatspeed.com

: @sqlatspeed

www.sqlatspeed.com

https://github.com/sqlatspeed/2023_presentations