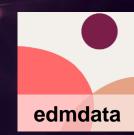
## Getting Started with Azure Databricks

Wilson Mok

April 14, 2025







#### Wilson Mok

Sr. Data architect & Consultant

- in /wilson-mok
- /wilson-mok
- @the-analytics-lab



#### My experiences includes:

- Avanade
- CAE
- Air Canada



#### **Expected Audience and Presentation Structure**



- This session, we will cover:
  - Introduction to Azure Databricks
  - Core Technologies Overview
  - Creating well-annotated metadata for your data assets
  - Explore Your Data using Al/Bl Genie
- Fundamental knowledge: Basic SQL, Databricks would be beneficial but not required.

### Databricks provides a Unified Data Intelligence Platform for Data and Al



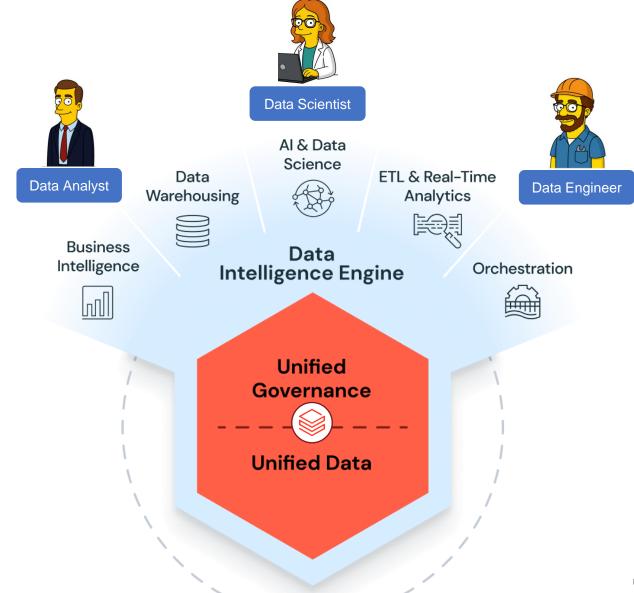
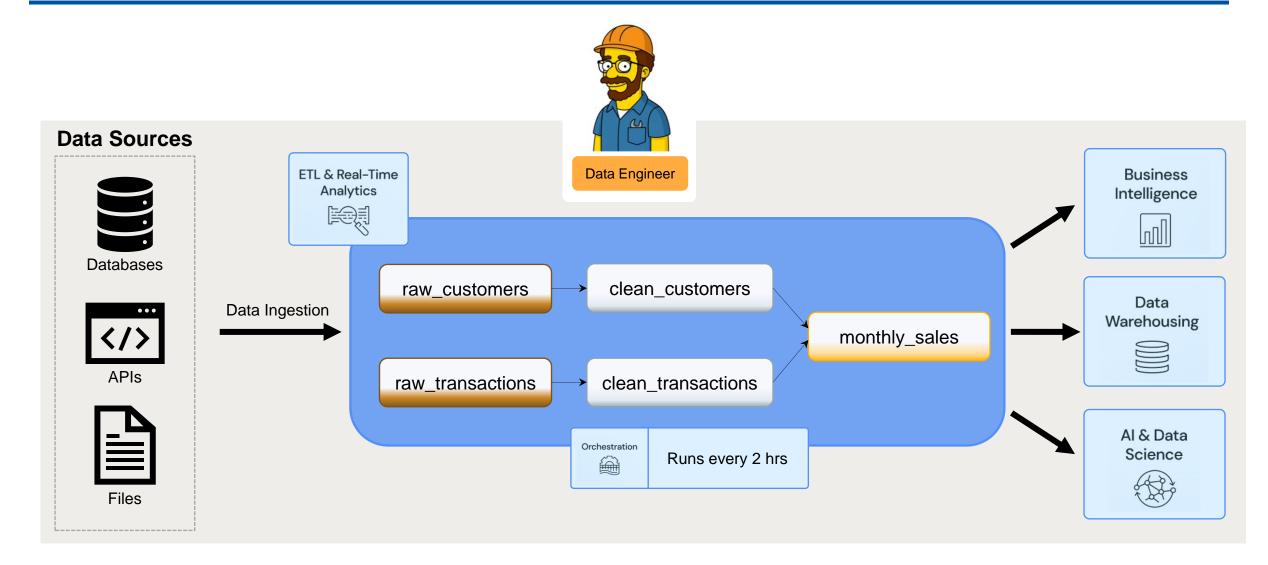


Image Credit: https://www.databricks.com/product/data-intelligence-platform

### Data Engineers uses Databricks to build reliable data pipelines deliver fresh and actionable data to the business





# Data Scientists experiment, track and deploy models faster using MLFlow, and Mosaic Al.



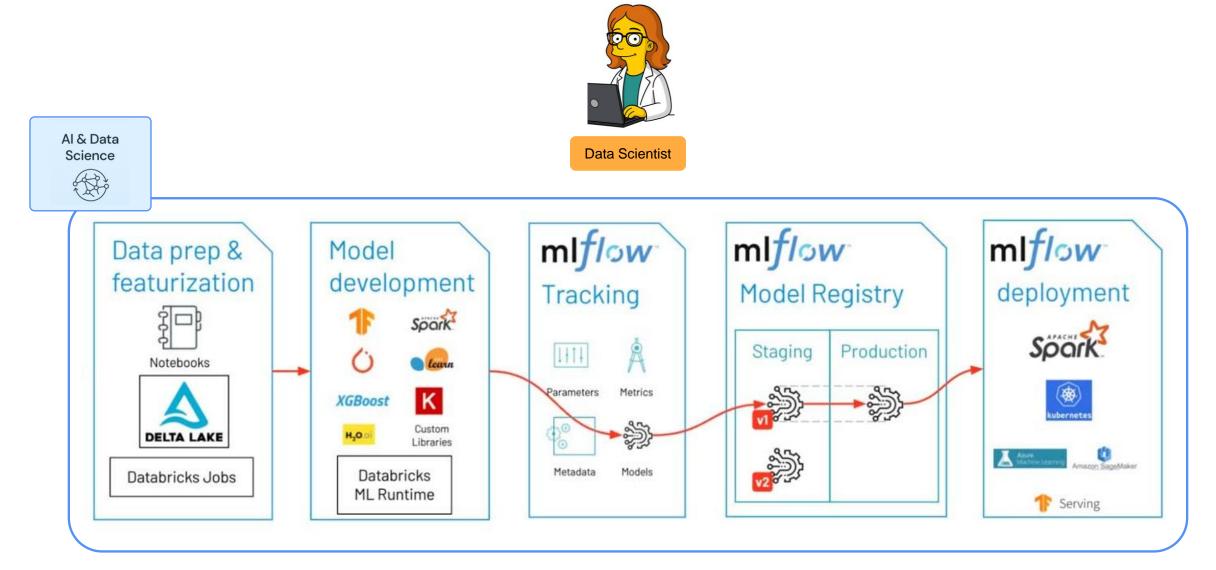


Image Credit: https://www.databricks.com/blog/2021/06/24/three-principles-for-selecting-machine-learning-platforms.html





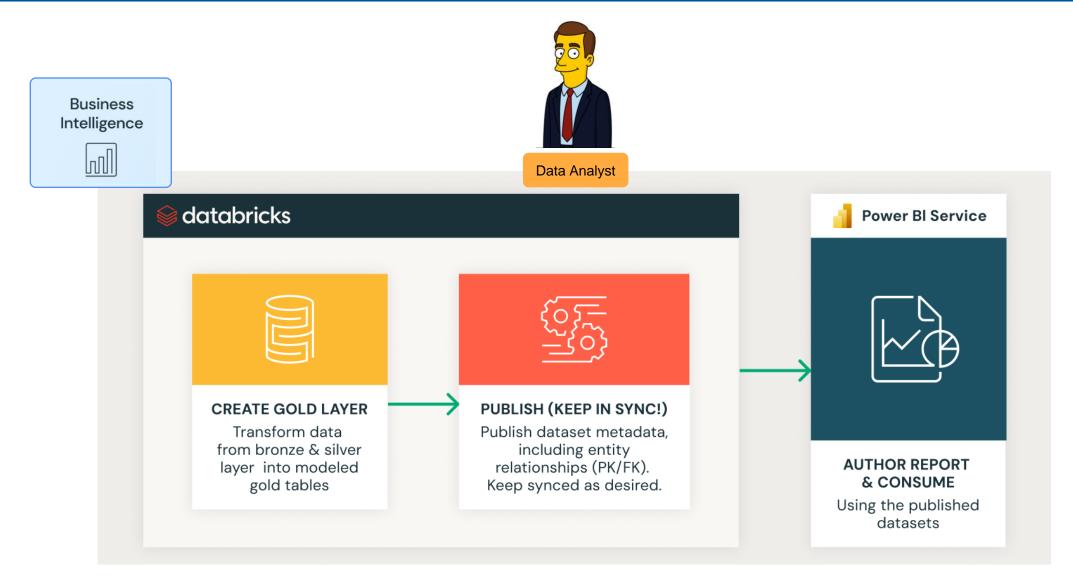


Image Credit: https://www.databricks.com/blog/announcing-general-availability-publish-microsoft-power-bi-service-unity-catalog





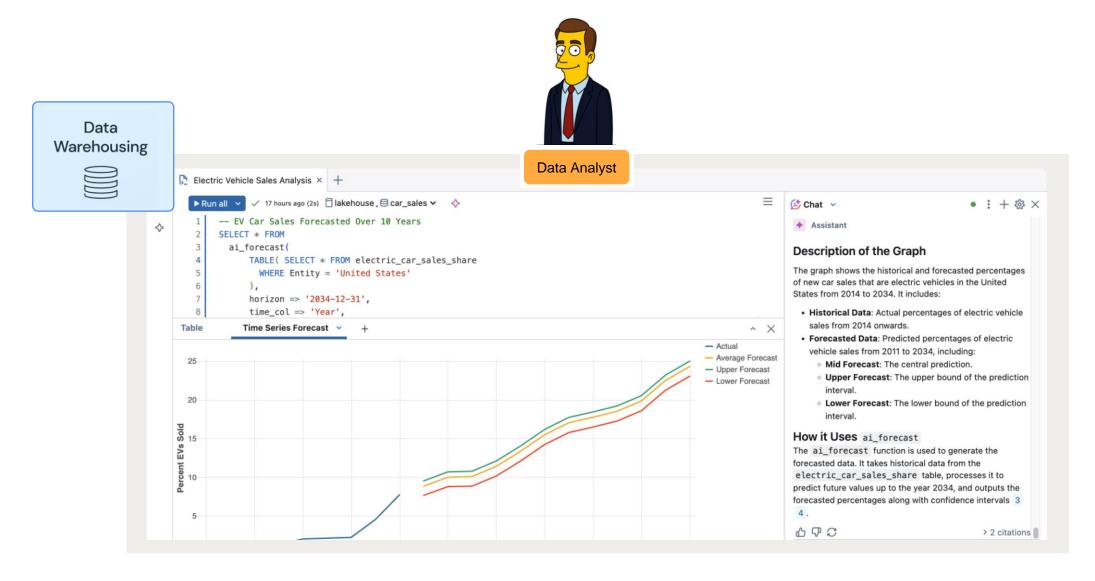


Image Credit: https://www.databricks.com/product/databricks-sql

## **Quick Tip: Databricks Assistant reduces the friction of Learning and Accelerates your productivity**





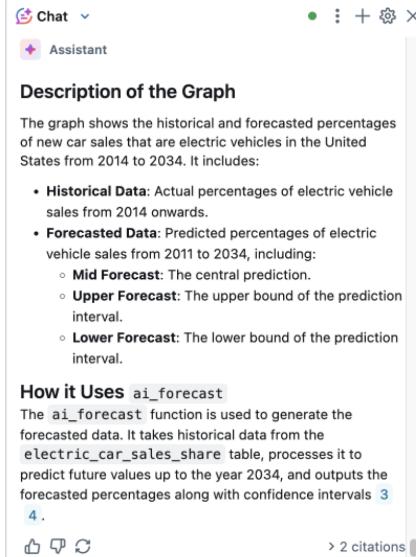
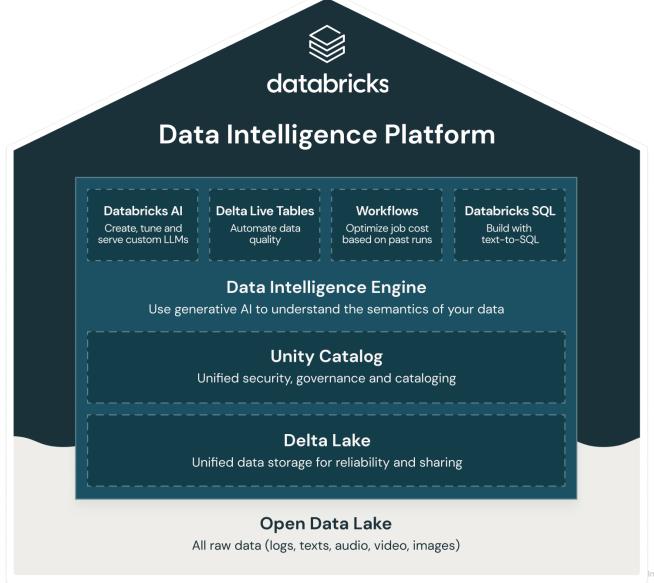


Image Credit: https://www.databricks.com/product/databricks-sql

# Key technologies that powers Databricks: Delta Lakehouse, Unity Catalog, Serverless Compute

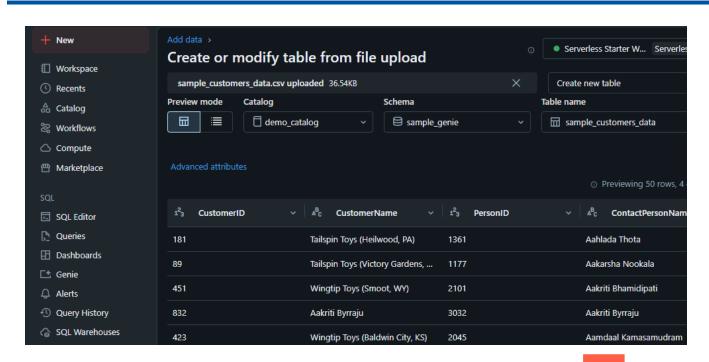


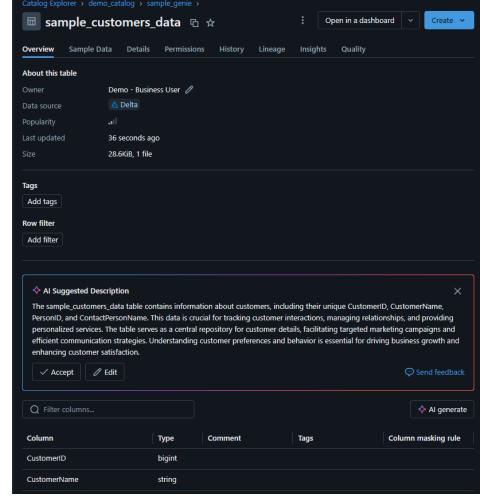


nage Credit: https://www.databricks.com/product/data-intelligence-platform







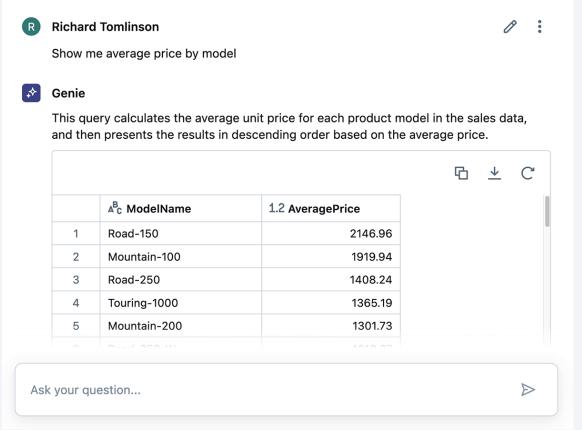


### **Q & A 1 (5 minutes)**

#### Having a Conversation with your data using Al/Bl Genie

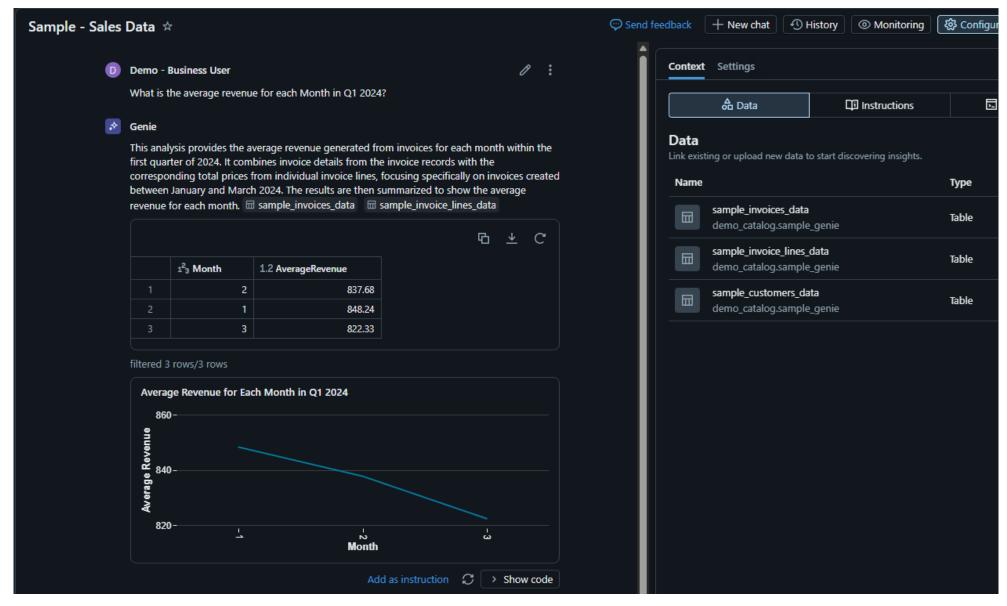












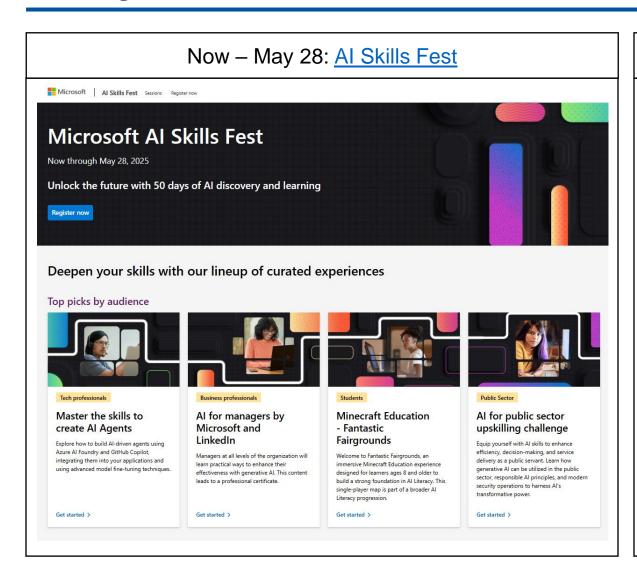
#### After all this, we have run through...



- Databricks Unified Data Intelligence Platform bring Data Engineers, Data Scientist and Data Analysts together into one collaborative environment.
- Everyone can collaborate in the same notebook with their preferred programming language or use traditional SQL for queries and quick visualizations.
- Databricks Assistant and AI/BI Genie lower the barriers to learning, building and exploring data power by AI.
- A strong foundation is created through Unified Data (Delta Lake) and Unified Governance (Unity Catalog) enable trusted, governed access to your data assets.
- Data Intelligence Engine extend Databricks into generative AI and conversational analytics.
- The code is in my Github repo:
  - https://github.com/wilson-mok/demo/...

#### **Training for Fabric, AI and Databricks**







Q & A 2

### Thank you



# What are the key difference between Azure Databricks and Microsoft Fabric?



Feature/Aspect	Azure Databricks	Microsoft Fabric
Founded	2013 (Azure: 2018)	2023
Deployment Model	PaaS – Infra setup is required	SaaS – No Infra setup is required
Cloud Agnostic	Azure, AWS, GCP	Azure Only
Governance framework	Unity Catalog	Microsoft Purview
Technology	SQL, Spark, Lakehouse	T-SQL, Spark, Lakehouse
Storage	Delta Lake (Open Source)	OneLake (integrated with Delta Lake)
Development style	Code first	Supports Low-code and Code