



# **Welcome to Perth Microsoft Data, Analytics, AI and Power Platform**

**Thanks to our Sponsor**



# **Acknowledgment of Country**

We wish to acknowledge the traditional custodians of the land we are meeting on, the Whadjuk (Perth region) people. We wish to acknowledge and respect their continuing culture and the contribution they make to the life of this city and this region.

# AI Functions in Microsoft Fabric



Connect



 /sergiozenatti

Sergio Zenatti Filho

Sr Cloud Solution Architect,  
Microsoft





# Microsoft Fabric

The unified data platform for AI transformation



Data  
Factory



Analytics



Databases



Real-Time  
Intelligence



Power BI



Industry  
Solutions



Partner  
workloads



AI



OneLake



Microsoft Purview

# AI Powered

Gen AI accelerates your data journey in Fabric



Copilot accelerated  
experiences



AI-driven  
insights



Custom  
generative AI  
for your data

Preview

# AI Functions

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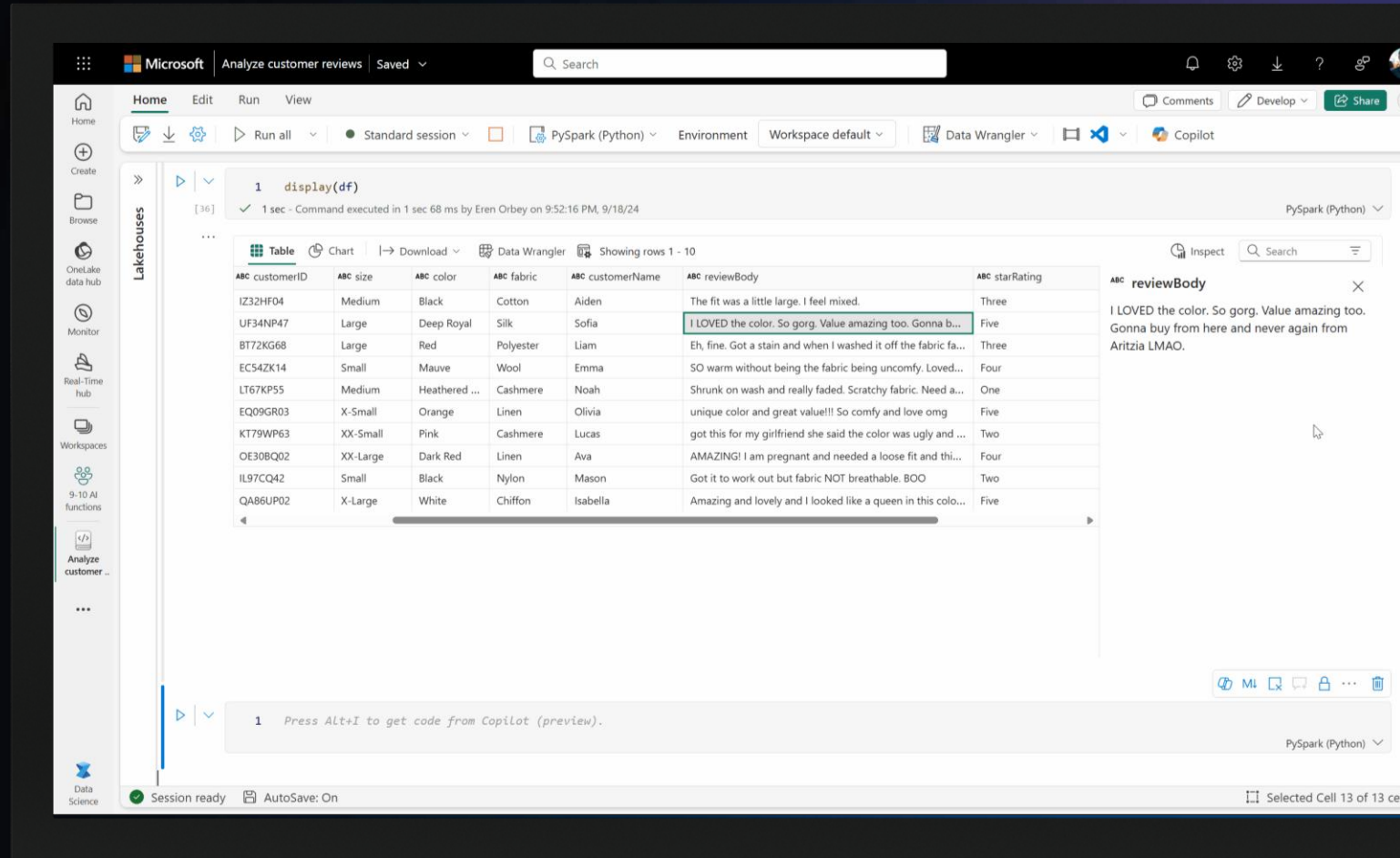


AI powered

# Seamless data enrichment with AI functions

Preview

- Transform and enrich data with user-friendly **AI functions**
- Invoke state-of-the-art LLMs in just a **single line of code**
- **Summarization, translation, sentiment analysis**, and more
- **Coming soon:** AI functions on Spark, in SQL, in OneLake, and in Data Wrangler



# AI Functions: Simplify LLMs on your data

A screenshot of a PySpark code editor interface. The editor has a light gray background with a dark blue sidebar on the left. The code is written in a monospaced font with syntax highlighting. The code consists of three lines: 1. `import aifunc`, 2. (blank line), 3. `df_sample["Product_Category"] = df_sample["Product_Name"].ai.classify()`. The text "Product\_Category" and "Product\_Name" are in red, while "ai.classify()" is in black. The editor has a toolbar on the right with icons for copy, paste, undo, redo, and a trash can. The language is set to "PySpark (Python)" as indicated by a dropdown menu in the bottom right corner.

```
1 import aifunc
2
3 df_sample["Product_Category"] = df_sample["Product_Name"].ai.classify()
```

PySpark (Python) ▾

Native Pandas (and Spark) Functions to apply LLMs to your data



# Fabric AI functions

Function name	Description
<code>fix_grammar()</code>	Rewrites text with improved grammar
<code>analyze_sentiment()</code>	Analyzes sentiment of text and computes score
<code>summarize(max_words)</code>	Summarizes text in no more than max_words
<code>translate(to_lang)</code>	Translates text into provided to_lang
<code>similarity(other)</code>	Computes similarity scores
<code>classify(categories)</code>	Classifies text into provided categories
<code>mask(categories)</code>	Masks words matching categories

# Fabric AI functions: Custom prompts

▶ | ▼

```
1 df["Country"] = df.ai.gen("Map address to the corresponding country")
```

PySpark (Python) ▼

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df

Name	Address
Anne F.	123 First Street, 98765
George K.	345 Washington Avenue, London



df

Name	Address	Country
Anne F.	123 First Street, 98765	USA
George K.	345 Washington Avenue, London	UK

Demo



**Q&A**

**Thank you!**

