



**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

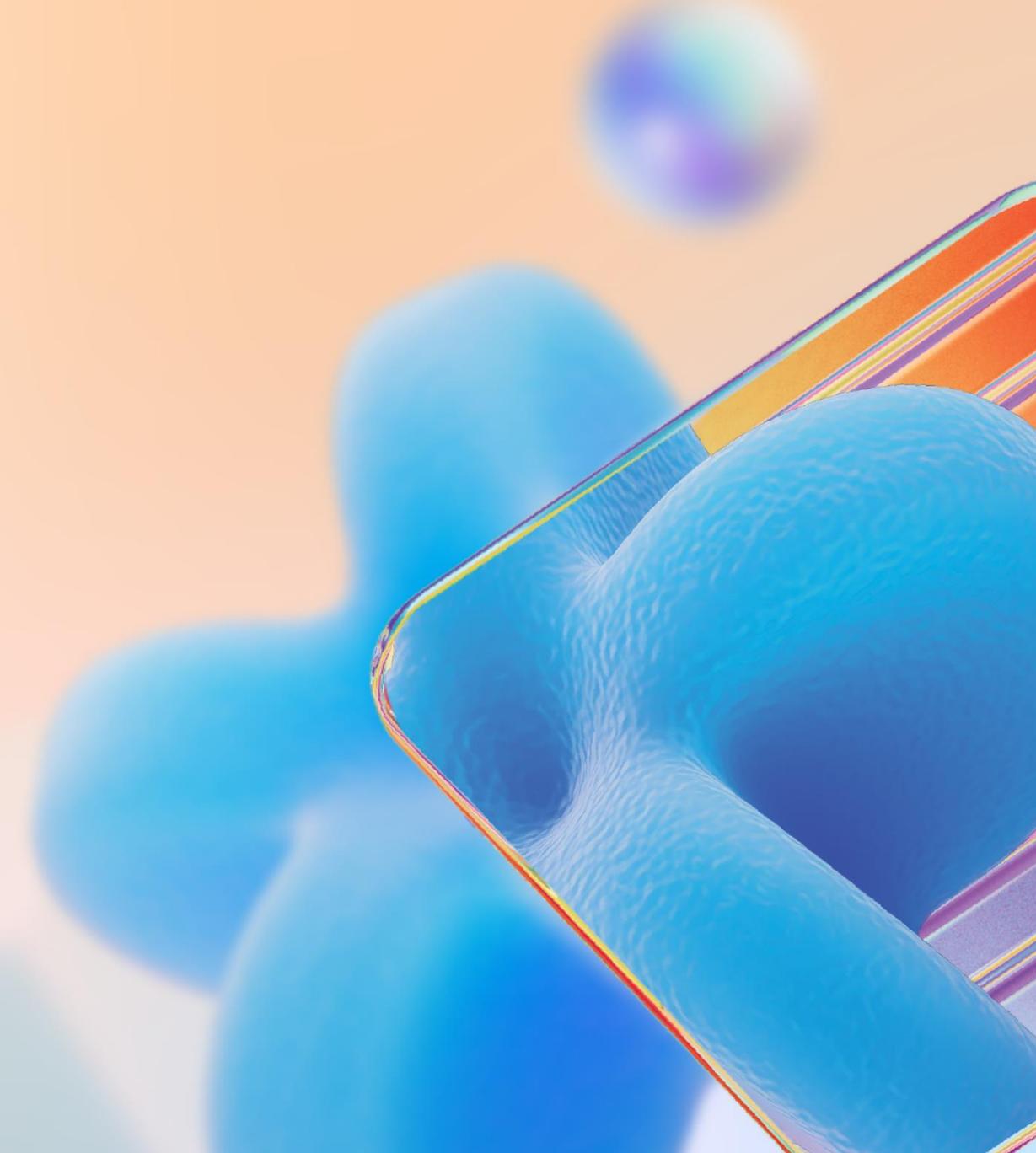
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Sergio Zenatti Filho
Sr Cloud Solution Architect,
Microsoft





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



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

The screenshot shows a Microsoft Data Science workspace interface. On the left, there's a sidebar with various icons for Home, Create, Browse, OneLake data hub, Monitor, Real-Time hub, Workspaces, 9-10 AI functions, and Analyze customer ... The main area is titled "Analyze customer reviews | Saved". It displays a PySpark (Python) session with a code cell containing "1 display(df)". Below the code cell is a table titled "Lakehouses" showing 13 rows of data. The columns are labeled: ABC customerID, ABC size, ABC color, ABC fabric, ABC customerName, ABC reviewBody, ABC starRating, and ABC reviewBody. The last column, "ABC reviewBody", contains enriched text from an AI function. A specific row is highlighted with a green border, showing the original review body followed by the enriched summary: "I LOVED the color. So gorg. Value amazing too. Gonna b...". To the right of the table, there's a tooltip for the AI-generated summary: "I LOVED the color. So gorg. Value amazing too. Gonna buy from here and never again from Aritzia LMAO.". At the bottom of the workspace, there's a message: "1 Press Alt+I to get code from Copilot (preview)." The status bar at the bottom indicates "Session ready" and "AutoSave: On".

AI Functions: Simplify LLMs on your data



A screenshot of a Jupyter Notebook cell. The cell contains the following Python code:

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

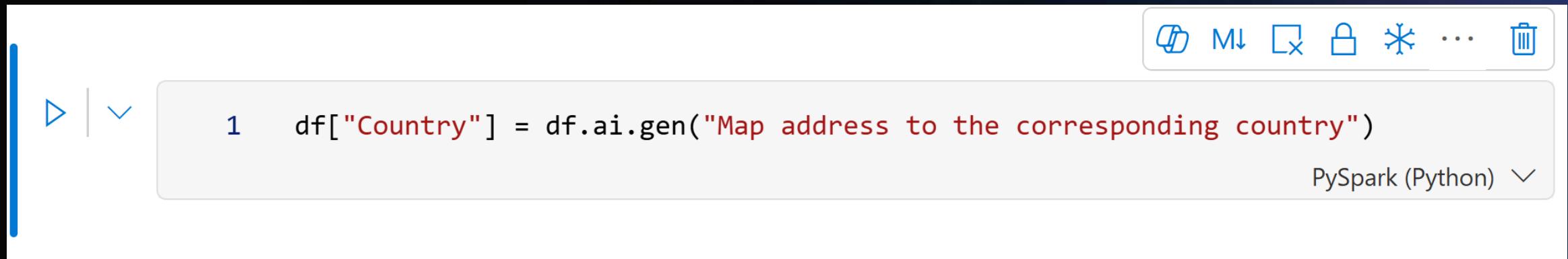
The code imports the `aifunc` module and uses its `classify` function on the `Product_Name` column of a DataFrame named `df_sample`, resulting in a new column `Product_Category`. The cell has a blue header bar with icons for copy, paste, run, etc. A dropdown menu shows "PySpark (Python)".

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

Fabric AI functions

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

Fabric AI functions: Custom prompts



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

PySpark (Python) ▾

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!

