Demystifying Semantic Link in Microsoft Fabric
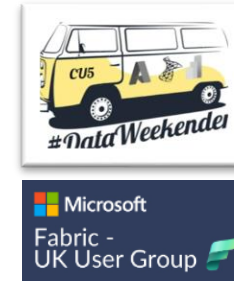
Pragati Jain

Pragati Jain

- Microsoft Data Platform MVP

- Superuser at Microsoft Fabric Community

- 10+ years of industry experience

- Analytics Manager at Avanade, London

- Organizer at DataWeekender conference

- Manager at Microsoft Fabric UK User Group

Fun Fact About Me:
I am a painter and proudly call myself
'TechieArtist' 😊

✅Microsoft Certified: Fabric Analytics Engineer Associate

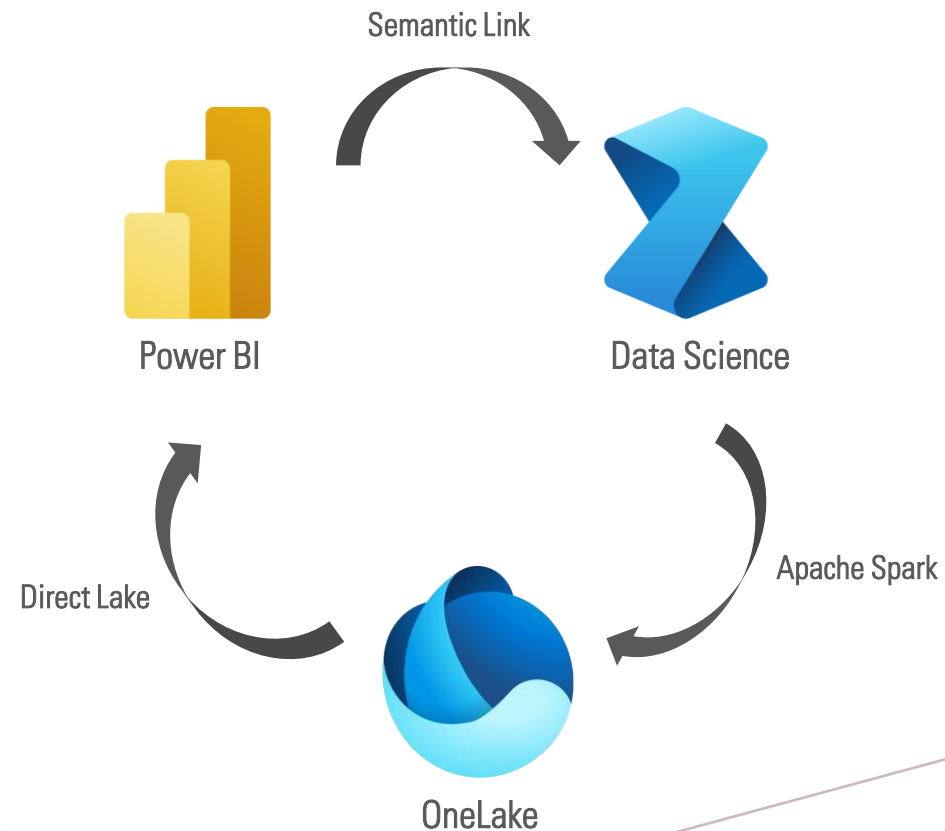✅Microsoft Certified: Power BI Data Analyst Associate

AGENDA

- Overview of Semantic Link
- Demos for Semantic Link

What is Semantic Link?

Helps to establish a connection between Power BI semantic models and Data Science.

Semantic Link

Power BI

Data Science

Apache Spark

Direct Lake

OneLake

4

Primary Goals of Semantic Link?

- Facilitate data connectivity

- Enable propagation of semantic information

- Seamless integration with data science tools like Notebooks

- Bridge gap between Power BI and Data Science experience

Semantic Link Libraries and Connectors

- SemPy Python library for Python ecosystem
  - ➤ Semantic link feature that serves pandas users.
  - ➤ Functionality that provides data retrieval from:
    - ❖ Tables
    - ❖ Computation of measures
    - ❖ Execution of DAX queries and metadata
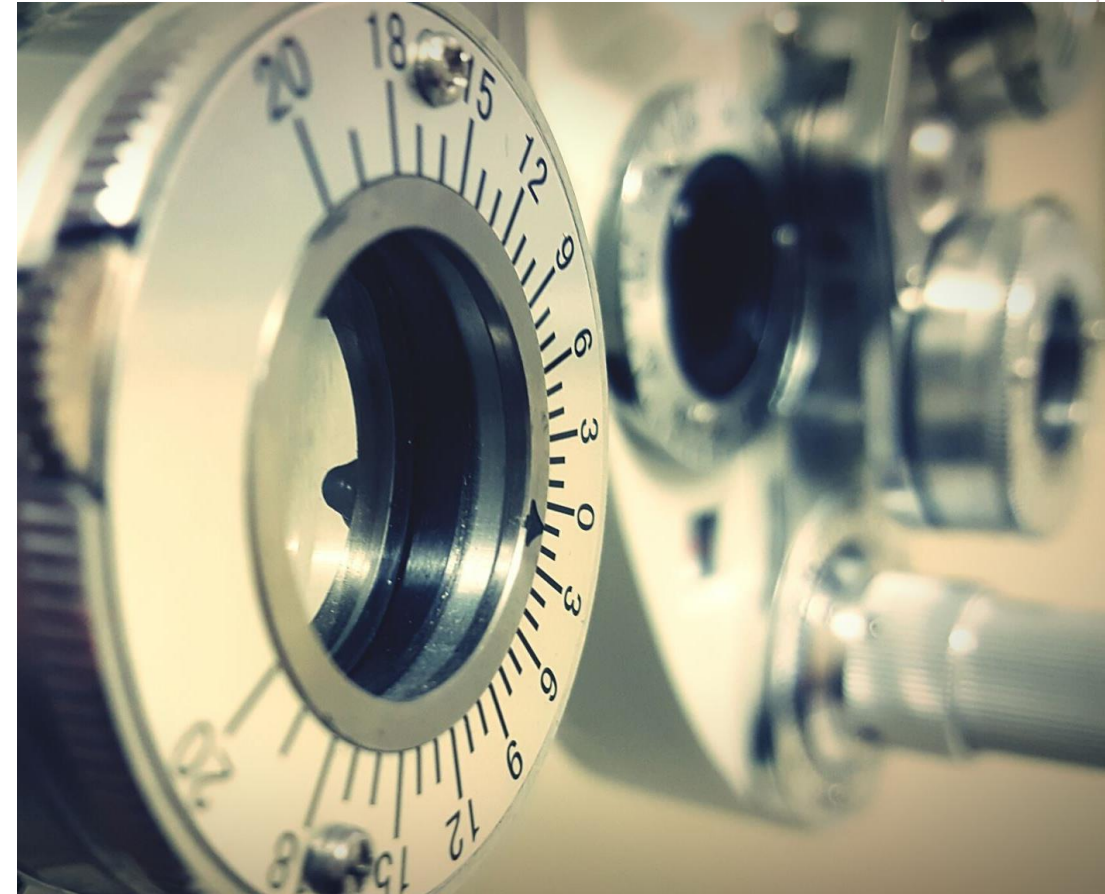- Spark native connector with the support for PySpark, Spark SQL, R, Scala

Semantic Link supports additional metadata Propagation

- Power BI data categories:
  - ➢ Geographic: address, place, city, etc.
  - ➢ URL: web url, image url
  - ➢ Barcode
- Relationships among tables
- Hierarchies

Demos

- Discover relationships within a semantic model

- Extract & Evaluate Measure Definitions within the Semantic Model

- Model Optimization – understand entire semantic model metadata, to take necessary steps to optimize it at next stage

Thank You
Happy To Answer
Any Questions!