

Demystifying Semantic Link in Microsoft Fabric

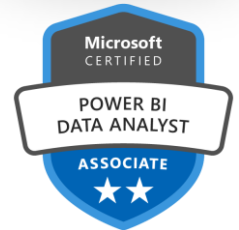
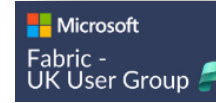
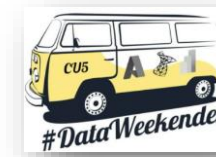
Pragati Jain



Pragati Jain

- Maa to a little boy
- 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

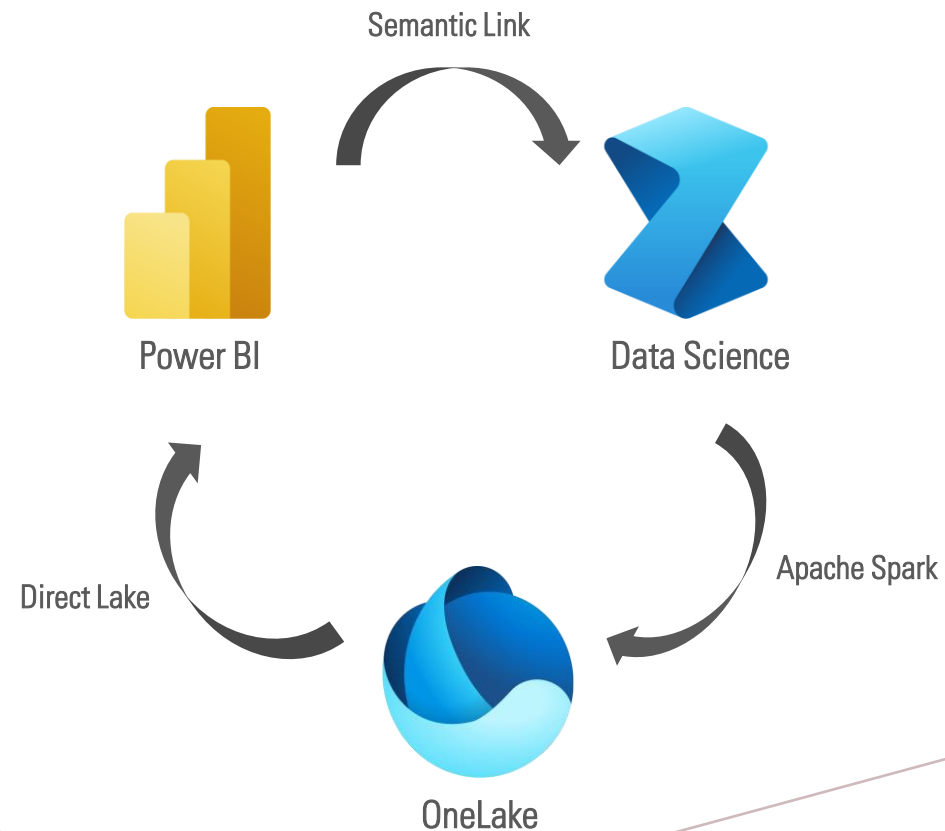
AGENDA



- 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.



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



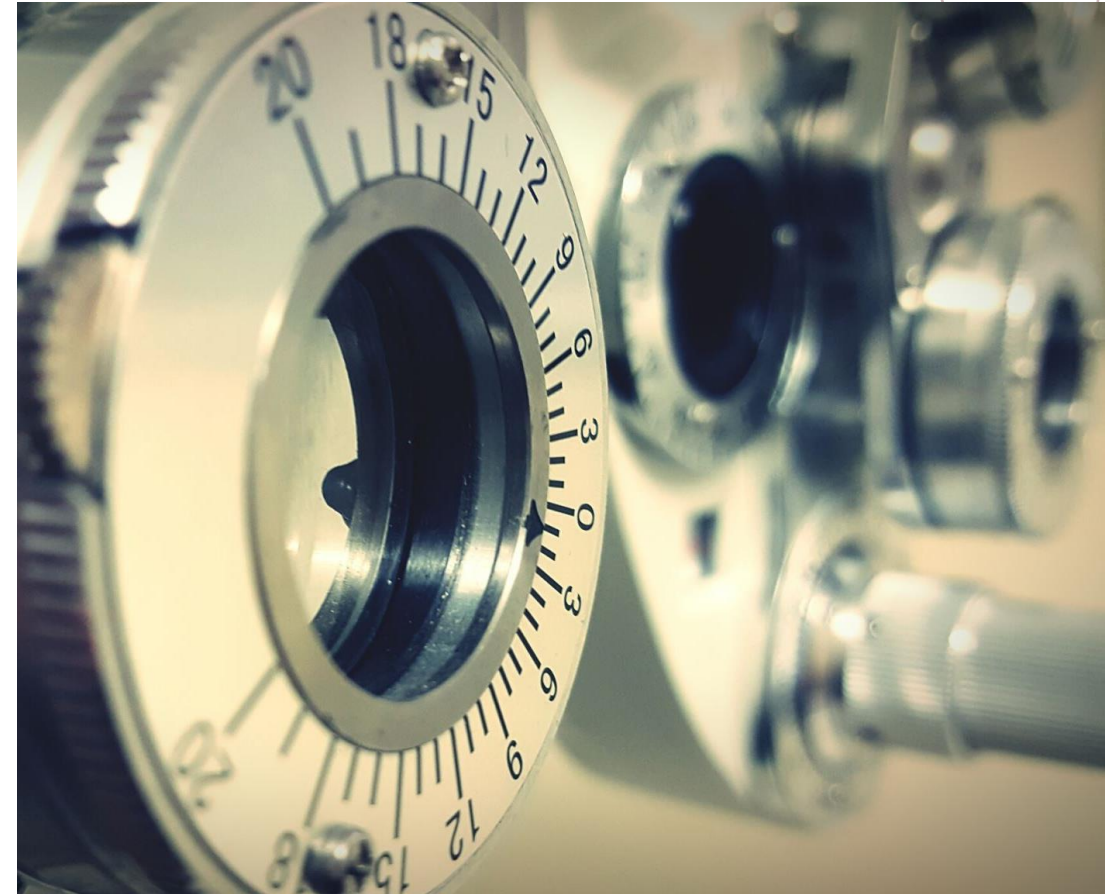
Semantic Link supports additional metadata Propagation

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

Demos

1. Discover relationships within a semantic model
2. Extract & Evaluate Measure Definitions within the Semantic Model
3. Model Optimization – understand entire semantic model metadata, to take necessary steps to optimize it at next stage
4. Report Analysis – understand the report level details like report objects, filters, report measures, bookmarks, visuals, etc.


*requires report to be in PBIR format





Resources

- Semantic Link Labs:
<https://github.com/microsoft/semantic-link-labs>
- Semantic Link Featured Scenarios:
<https://github.com/microsoft/semantic-link-labs#featured-scenarios>



Thank You
Happy To Answer
Any Questions!

