



Auckland New Zealand

The Global AI On Tour in **Auckland, New Zealand** is a free event on **17 June 2020** from **17:00 - 19:30**.



Virtual event: Global AI on Tour in Auckland, 17th June



5:05 to 5:35 Leila

Azure Data Bricks for everyone



5:40 to 6:10
Arafat

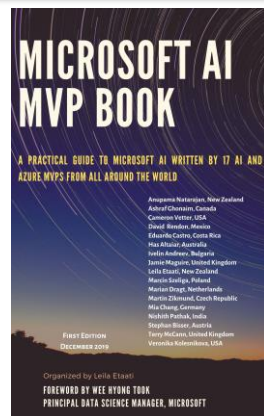
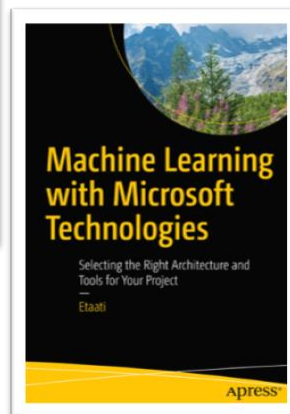
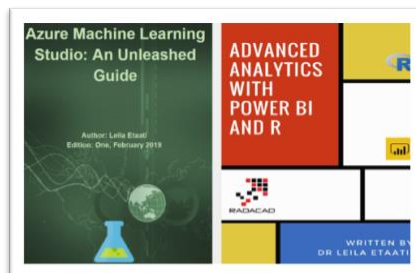
Build AI bots for next wave of
computing with
Bot Framework Composer



6:15 to 6.45 Indira

AI for Power BI Pro Users





Leila Etaati

AI and Data Platform Microsoft MVP from 2016

Board member of Global AI Community

PhD in Information System

Co-organizer of events like AI Global Bootcamp, SQL Saturday Auckland, Dfinity conference

Co-organizer of two big Meetup, Data and Insight and Power BI in Auckland and AI Meetup

Co-director of RADACAD, and active blogger on AI Topics and Autor of Book

International Speaker for more than 100 conference for Ignite, SQL PASS, Business Application Summit, SQL Saturdays, and many more



• Leila Etaati



• @leila_etaati



• <https://radacad.com/author/leila>



leila@radacad.com



@Leila_Etaati

Leila@ra

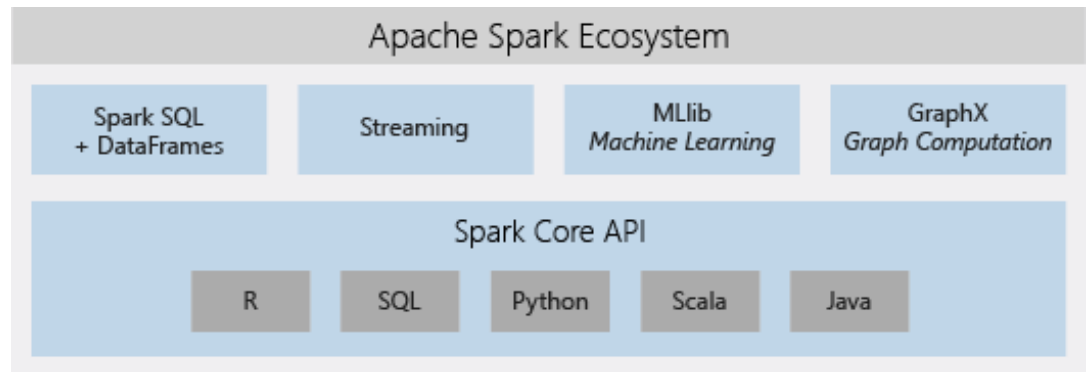


Global AI Community



Azure Data Bricks

- Azure Databricks is an Apache Spark-based
- Drive innovation and increase productivity, unify process, integration with lots of data sources
- Build on a secure, trusted cloud, protect data with Azure Directory, role-based control
- Scale without limits, target any size of data

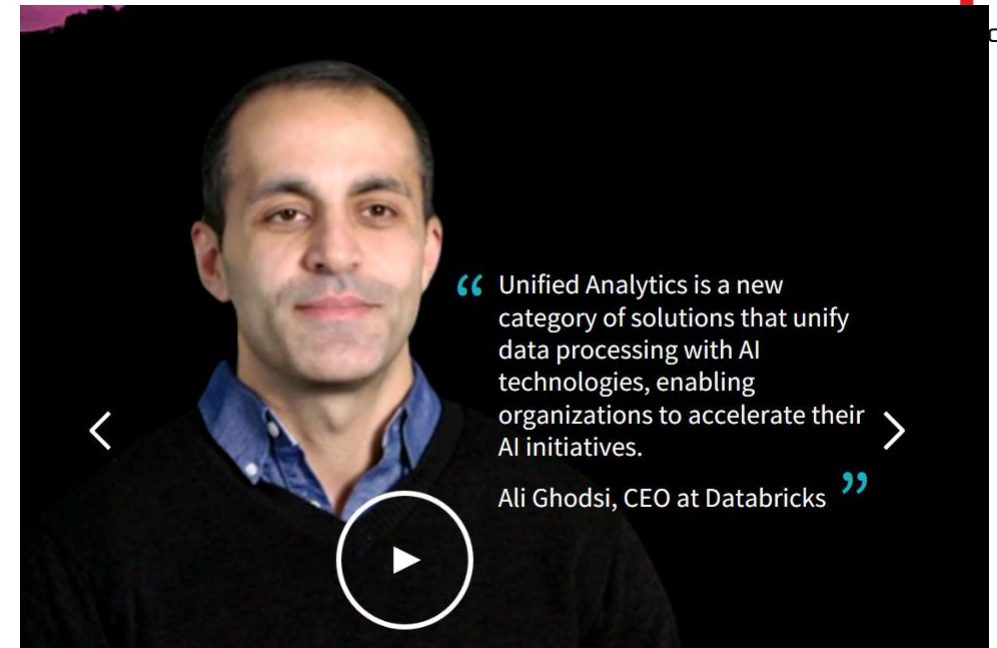
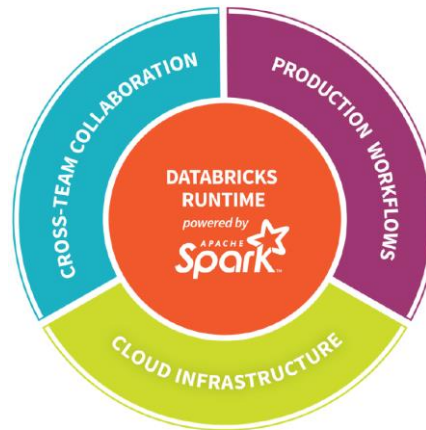


Databricks company

Founded in 2013

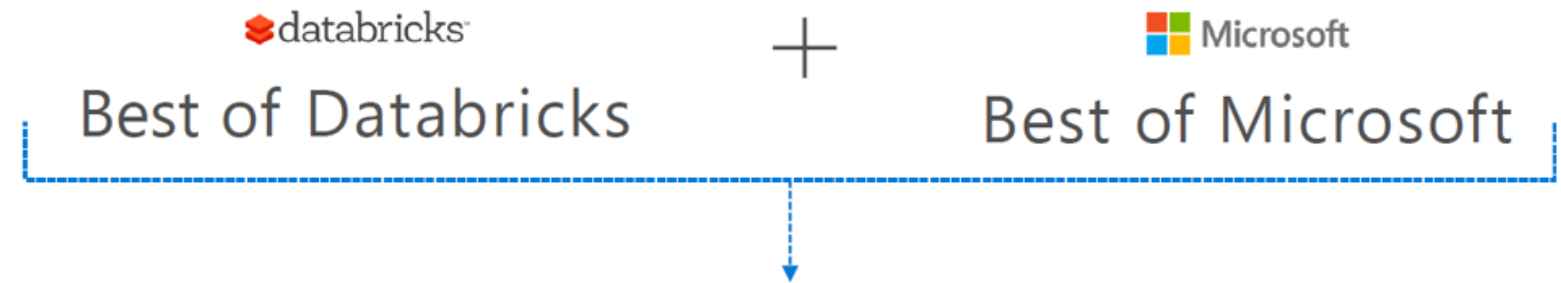
Team from Berkley University

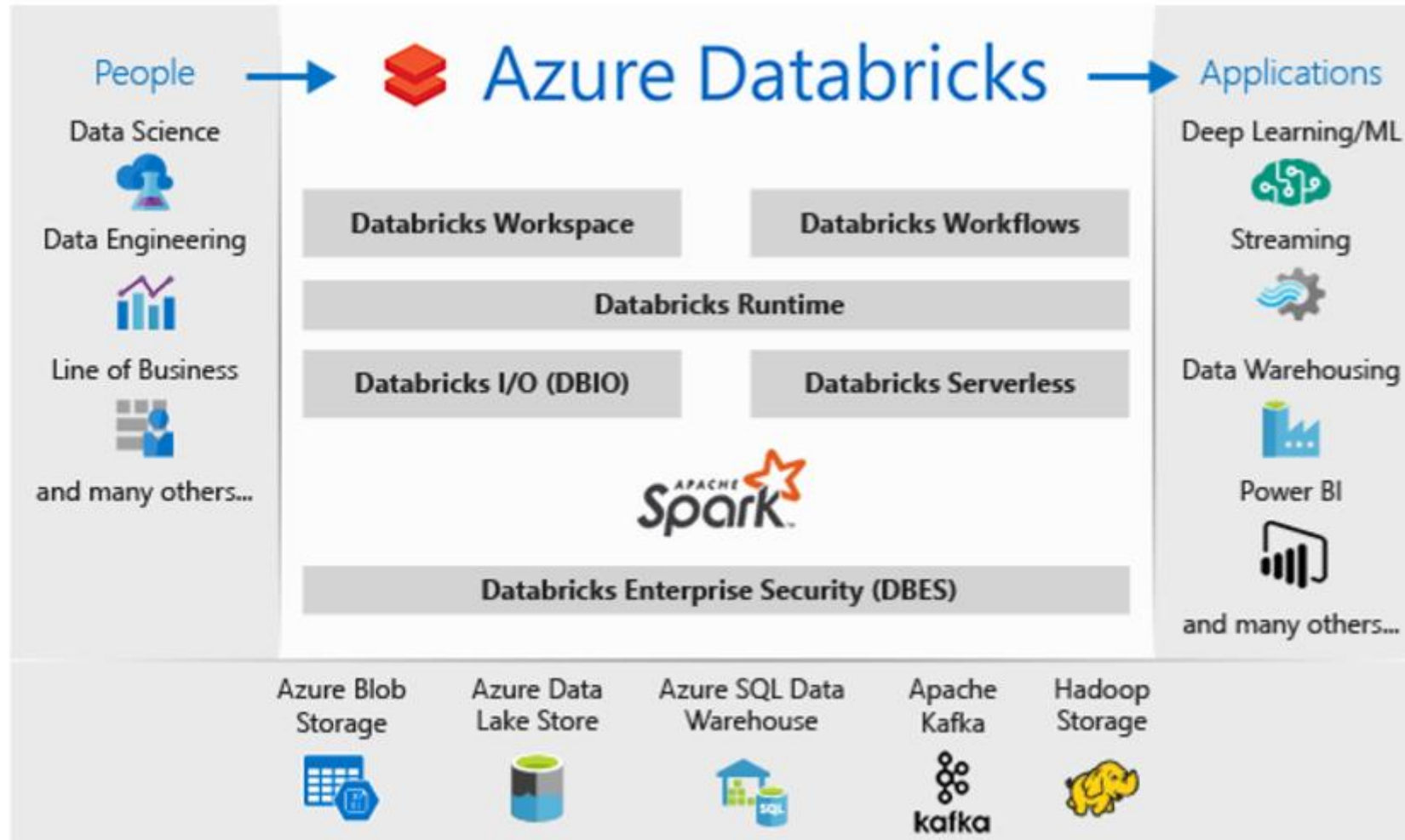
unifying Data Science, Engineering and Business

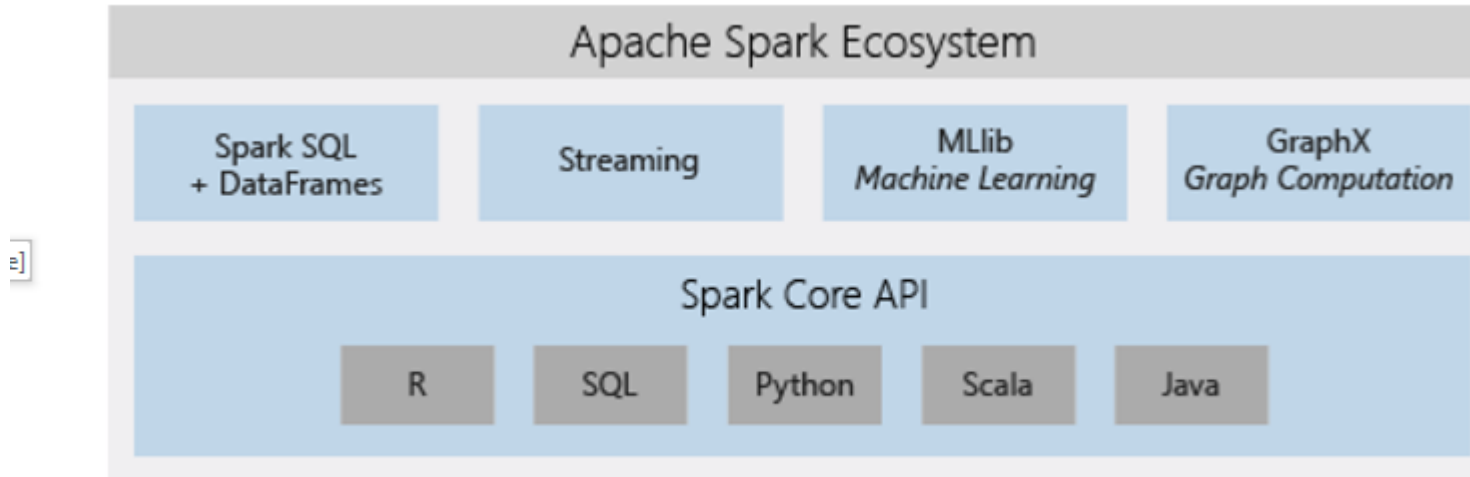


- Collaboration with Spark engine
- One Click Setup
- Streamlined Workflow
- Interactive workshop and collaboration between data engineer, data science, and Data Analytics
- Integration with Azure Service (Power BI, Data Lake store, Data ware house)
- Enterprise Azure security

What is Azure Databricks?







Azure Spark in Azure Databricks Fully managed

- Fully managed Spark clusters
- An interactive workspace for exploration and visualization
- A platform for powering your favourite Spark-based applications

Fully managed Apache Spark clusters in the Cloud



Fully managed Apache Spark clusters in the Cloud

- Create clusters in seconds.
- Dynamically autoscale clusters up and down, including serverless clusters, and share them across teams.
- Use clusters programmatically by using the REST APIs.
- Use secure data integration capabilities built on top of Spark that enable you to unify your data without centralization.
- Get instant access to the latest Apache Spark features with each release.



Workspace for Collaboration

- Determine how to use data with easy data exploration. Document your progress in notebooks in R, Python, Scala, or SQL.
- Visualize data in a few clicks, and use familiar tools like Matplotlib, ggplot, or d3.
- Use interactive dashboards to create dynamic reports.
- Use Spark and interact with the data simultaneously.



Enterprise Security

- Integration with Azure Active Directory enables you to run complete Azure-based solutions using Azure Databricks.
- Azure Databricks roles-based access enables fine-grained user permissions for notebooks, clusters, jobs, and data.
- Enterprise-grade SLAs.



Integration with Azure services

Azure Databricks integrates deeply with Azure databases and stores: SQL Data Warehouse, Cosmos DB, Data Lake Store, and Blob Storage.

Integration with Power BI

Through rich integration with Power BI, Azure Databricks allows you to discover and share your impactful insights quickly and easily. You can use other BI tools as well, such as Tableau Software via JDBC/ODBC cluster endpoints.



[Home](#) > [New](#) > [Azure Databricks](#) >

Azure Databricks Service

[* Basics](#) [Networking](#) [Tags](#) [Review + Create](#)

Project Details

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * ⓘ

Visual Studio Enterprise



Resource group * ⓘ

API_course



[Create new](#)

Instance Details

Workspace name *

GlobalAI



Location *

East US



Pricing Tier * ⓘ

Trial (Premium - 14-Days Free DBUs)



Mount the
storage
account



SQL Code
create Table



Import
Result in
Power BI



MIXING LANGUAGES IN NOTEBOOKS

You can mix multiple languages in the same notebook

Normally a notebook is associated with a specific language. However, with Azure Databricks notebooks, you can mix multiple languages in the same notebook. This is done using the language magic command:

- `%python` Allows you to execute python code in a notebook (even if that notebook is not python)
- `%sql` Allows you to execute sql code in a notebook (even if that notebook is not sql).
- `%r` Allows you to execute r code in a notebook (even if that notebook is not r).
- `%scala` Allows you to execute scala code in a notebook (even if that notebook is not scala).
- `%sh` Allows you to execute shell code in your notebook.
- `%fs` Allows you to use Databricks Utilities - dbutils filesystem commands.
- `%md` To include rendered markdown

Franck Mercier

Technical Solution Professional | Data + AI

<http://aka.ms/Franck>

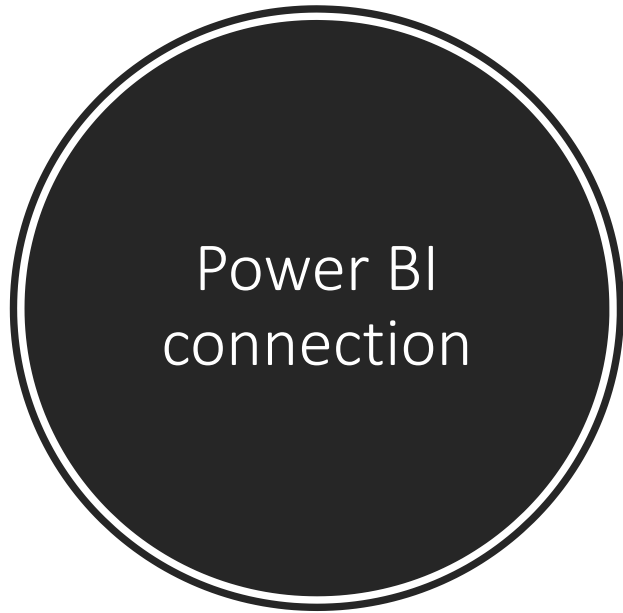
 @FranmerMS











@Leila_Etaati


Leila@radacad.com







<http://radacad.com>



 Azure Databricks
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Clusters / pbi-etl



 Edit
  Start
  Clone
  Restart
  Terminate
  Delete

[Configuration](#)
[Notebooks \(0\)](#)
[Libraries \(0\)](#)
[Event Log](#)
[Spark UI](#)
[Driver Logs](#)
[Spark Cluster UI - Master](#)

☒ Terminate after 120 minutes of inactivity

[Spark](#)
[Tags](#)
[Logging](#)

JDBC/ODBC

[Permissions](#)

Server Hostname

Port

Protocol

HTTP Path

JDBC URL ?

[Learn more](#) about connecting your favorite BI tool to Databricks.

```
jdbc:spark://adb-
4244124326136268.8.azuredatabricks.net:443/default;transportMode=http;ssl
=1;httpPath=sql/protocolv1/o/4244124326136268/0616-233601-
pawls929;AuthMech=3;UID=token;PWD=<personal-access-token>
```

- 1- https:
- 2- remove

Spark
Tags
Logging
Init Scripts
JDBC/ODBC
Permissions

Server Hostname

Port

Protocol

HTTP Path

JDBC URL ⓘ

3. Copy the parameters required by your BI tool.

User Settings

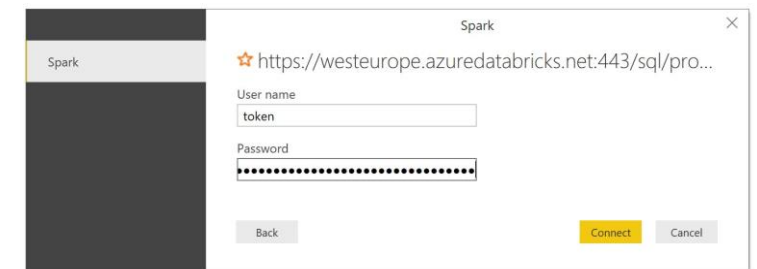
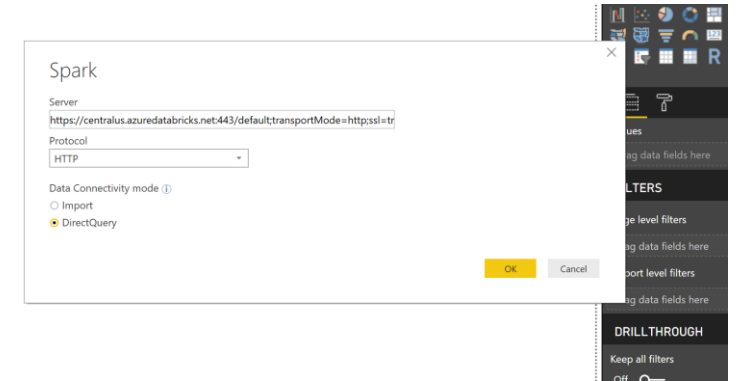
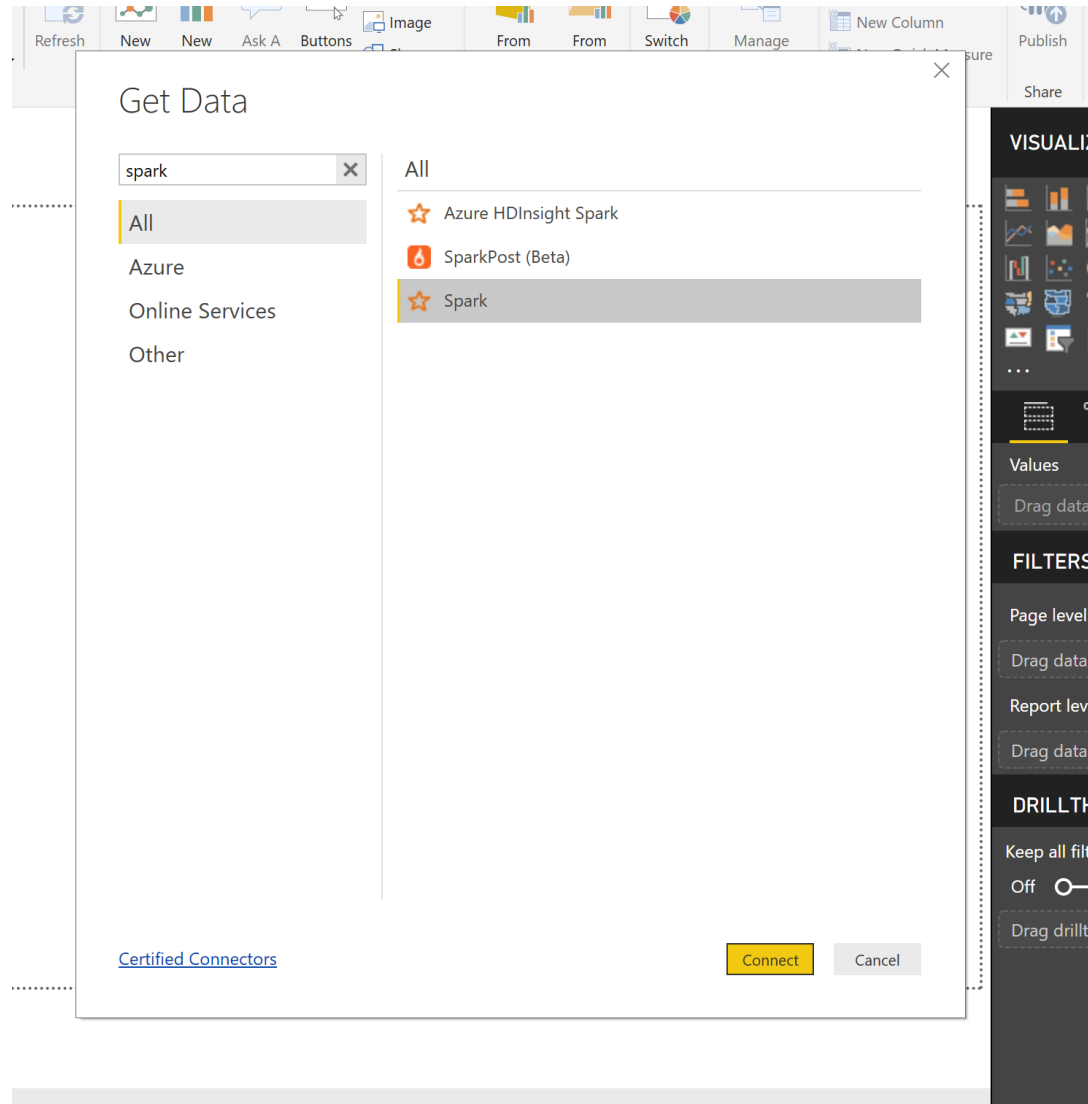
Access Tokens [Git Integration](#) [Notebook Settings](#)

Personal access tokens can be used for secure authentication to the [Databricks API](#) instead of passwords.

Generate New Token

Token ID	Comment	Creation ↑	Expira
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No tokens exist.



Windows

Username / Password

Spark

<https://centralus.azuredatabricks.net:443/default;tra...>

User name

Password

Back

Connect

Cancel

Copy

Format Painter

Get Data

Recent Sources

Clipboard

Navigator

Display Options ▾

https://centralus.azuredatabricks.net:443/sql/p...

☒

pbi

☒

titanic

pbi

Survived	Pclass	Gender	Age
0	3	male	22
1	1	female	38
1	3	female	26
1	1	female	35
0	3	male	35
0	3	male	null
0	1	male	54
0	3	male	2
1	3	female	27
1	2	female	14
1	3	female	4
1	1	female	58
0	3	male	20
0	3	male	39
0	3	female	14
1	2	female	55
0	3	male	2
1	2	male	null
0	3	female	31
1	3	female	null
0	2	male	35
1	2	male	34
1	3	female	15
1	1	male	28

Load

Edit

Cancel

FIELDS

Search

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Reference

<https://github.com/indupriya9/GlobalAITour2020>



@Leila_Etaati

Leila@radacad.com

<http://radacad.com>