## **ENSF 612**



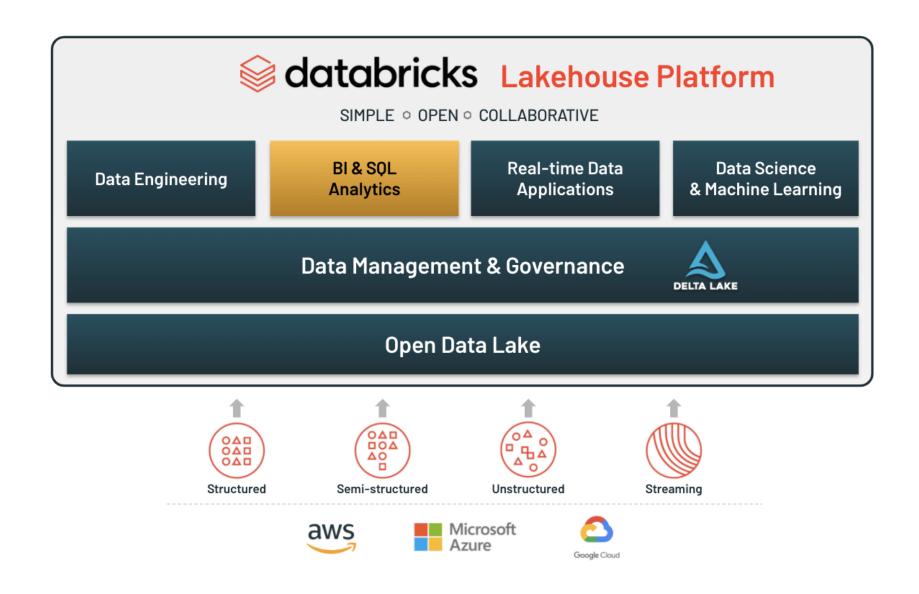
# HOW TO USE DATABRICKS COMMUNITY EDITION

# What is Databricks

- ❖ Databricks is a managed platform for running Apache Spark
  - You do not have to learn complex cluster management concepts.
  - No need to perform tedious maintenance tasks to take advantage of Spark.
- It's a point and click platform for those that prefer a user interface like data scientists or data analysts.

Databricks is a zero-management cloud platform that provides:

- Fully managed Spark clusters
- ❖ An interactive workspace for exploration and visualization
- ❖ A production focused pipeline scheduler
- ❖ A platform for powering Spark-based applications



Source: https://databricks.com/blog/2020/11/12/announcing-the-launch-of-databricks-sql.html

# Databricks Terminology

### Workspaces

- Allow you to organize all the work on Databricks.
- Like a folder structure in our computer.
- It allows you to save notebooks and libraries and share them with other users.

### Clusters

- Clusters are groups of computers that you treat as a single computer.
- Clusters allow you to execute code from notebooks or libraries on set of data.

### Notebooks

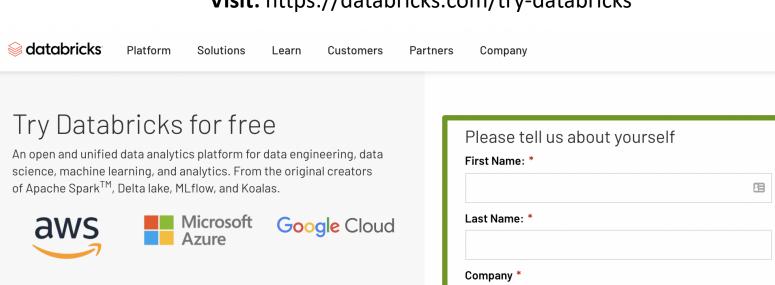
Notebooks are a set of any number of cells that allow you to execute commands.

### Libraries

- Libraries are packages or modules that provide additional functionality that you need to solve your business problems.
- ❖ You can write and upload these manually or you may install them directly via package management utilities like pypi or maven.

# Let's see a Demo!

### **Visit:** https://databricks.com/try-databricks



#### Databricks trial:

- Collaborative environment for data teams to build solutions together.
- Interactive notebooks to use Apache Spark<sup>TM</sup>, SQL, Python, Scala, Delta Lake, MLflow, TensorFlow, Keras, Scikit-learn and more.
- Available as a 14-day full trial in your own cloud, or as a lightweight trial hosted by Databricks.

### Used by:









REGENERON



	E3	
Last Name: *		
Company *		
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Keep me informed with	occasional updates about Databricks	
and related open source		

LOG IN



Platform

Solutions

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Customers

Partners

Company



# Try Databricks

AN OPEN AND UNIFIED DATA ANALYTICS PLATFORM FOR DATA ENGINEERING, MACHINE LEARNING, AND ANALYTICS

From the original creators of Apache Spark<sup>TM</sup>, Delta Lake, MLflow, and Koalas

Select a platform

#### DATABRICKS PLATFORM - FREE TRIAL

For businesses

- Collaborative environment for Data teams to build solutions together
- Unlimited clusters that can scale to any size, processing data in your own account
- Job scheduler to execute jobs for production pipelines
- Fully collaborative notebooks with multi-language support, dashboards, REST APIs
- Native integration with the most popular ML frameworks (scikitlearn, TensorFlow, Keras,...), Apache SparkTM, Delta Lake, and MLflow
- Advanced security, role-based access controls, and audit logs
- Single Sign On support
- Integration with BI tools such as Tableau, Qlik, and Looker
- 14-day full feature trial (excludes cloud charges)

#### **COMMUNITY EDITION**

For students and educational institutions

- Single cluster limited to 15GB and no worker nodes
- Basic notebooks without collaboration
- Limited to 3 max users
- · Public environment to share your work

#### **GET STARTED**

By clicking "Get Started" for the Community Edition, you agree to the Databricks Community Edition Terms of Service.

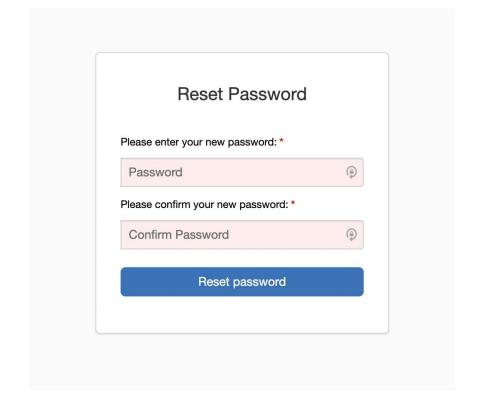


## Time to check your email!

Thank you for signing up. Now it's time to validate your email address. Please check the email you provided for next steps.

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<u>Privacy Policy | Terms of Use</u>



Visit: https://community.cloud.databricks.com/login.html

# Welcome to **adatabricks**



#### **Explore the Quickstart Tutorial**

Spin up a cluster, run queries on preloaded data, and display results in 5 minutes.



#### Import & Explore Data

Quickly import data, preview its schema, create a table, and query it in a notebook.



#### Create a Blank Notebook

Create a notebook to start querying, visualizing, and modeling your data.

#### Common Tasks

- New Notebook
- E Create Table
- New Cluster
- New Job
- ▲ New MLflow Experiment
- Import Library

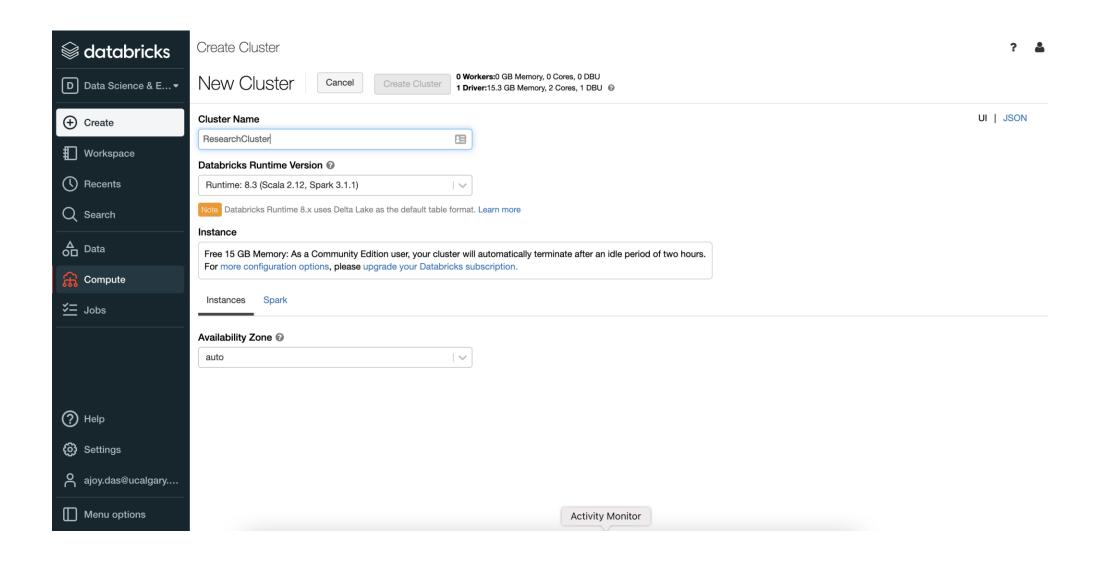
#### Recents

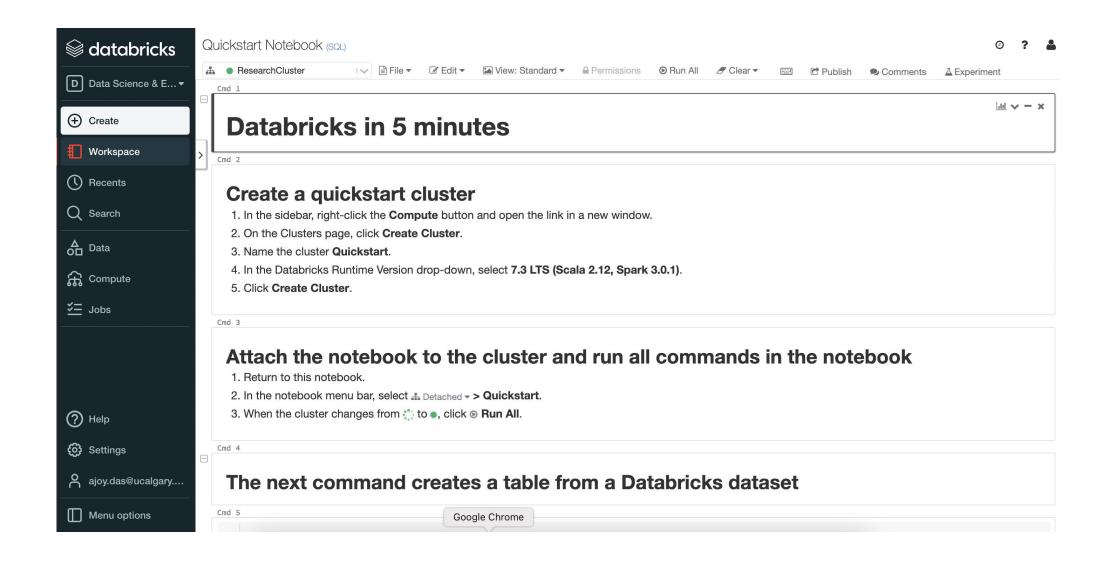
Recent files appear here as you work.

#### What's new in v3.54

**Databricks Status** 

View latest release notes





# Resources

### Demo Resources:

- https://docs.databricks.com/getting-started/quick-start.html
- https://docs.databricks.com/getting-started/spark/quick-start.html#notebook-qs

### **Documentations:**

- Databricks Docs: <a href="https://docs.databricks.com/workspace-index.html">https://docs.databricks.com/workspace-index.html</a>
- Databricks User Manual: <a href="https://docs.databricks.com/user-guide/index.html">https://docs.databricks.com/user-guide/index.html</a>
- Importing & Modifying Data: <a href="https://docs.databricks.com/data/data.html">https://docs.databricks.com/data/data.html</a>
- Community Edition FAQs: <a href="https://databricks.com/product/faq/community-edition">https://databricks.com/product/faq/community-edition</a>

# Thank You

ANY QUESTION?