Name: Krushnakumar Patle

Email: krishnapatle128@gmail.com

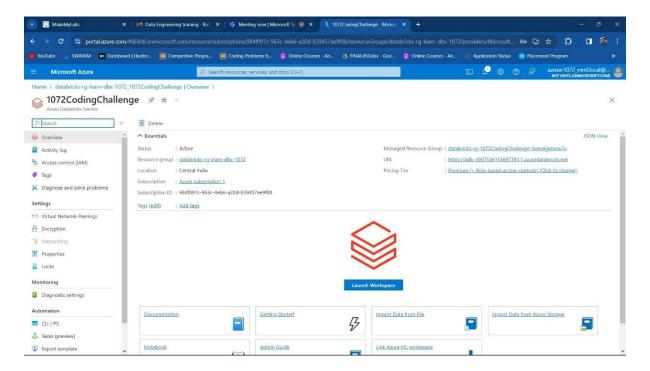
Batch: Data Engineering Batch-1

Azure Databricks Coding Challenge

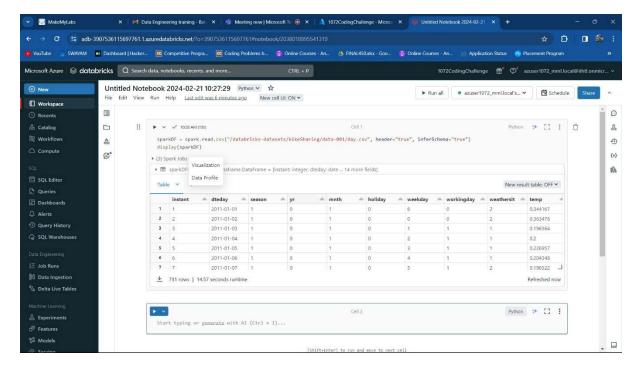
## Q1. Exploratory data analysis (EDA) in Databricks & Visualizing data in Databricks

- Exploratory data analysis (EDA) includes methods for exploring data sets to summarize their main characteristics and identify any problems with the data. Using statistical methods and visualizations, you can learn about a data set to determine its readiness for analysis and inform what techniques to apply for data preparation. EDA can also influence which algorithms you choose to apply for training ML models.
- Azure Databricks has built-in analysis and visualization tools in both Databricks SQL and in Databricks Runtime.
- The goal of EDA is to understand the data's characteristics, identify patterns, and outliers, and generate hypotheses for further analysis or modeling. EDA is crucial for making informed decisions in data-driven projects.

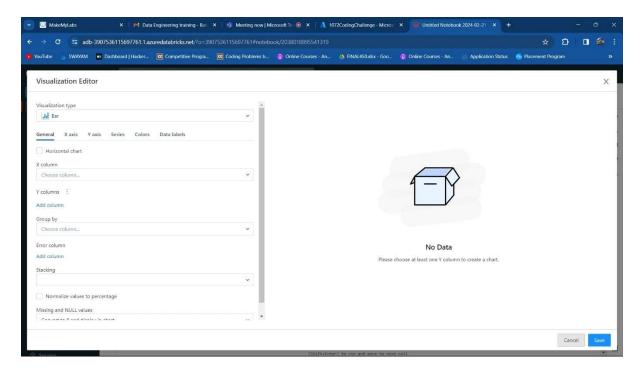
## 1. Create azure databricks



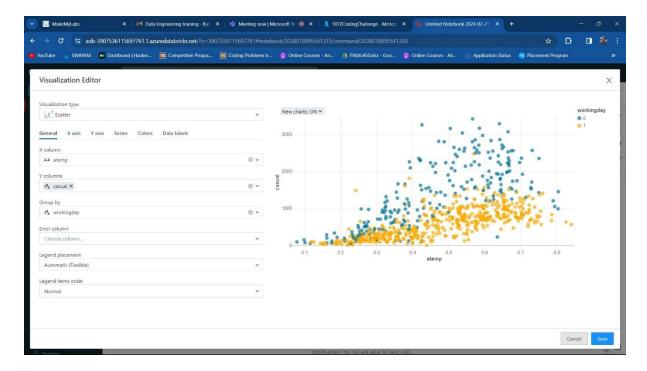
## 2. Load the data for visualization



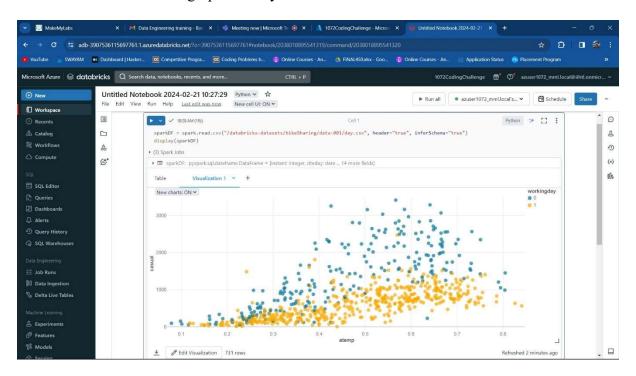
3. Select visualize option to visualize data



4. Select visulaize type which you want and give x and y values



5. Your visualization graph is ready now



6. This is bar visualization of data file

