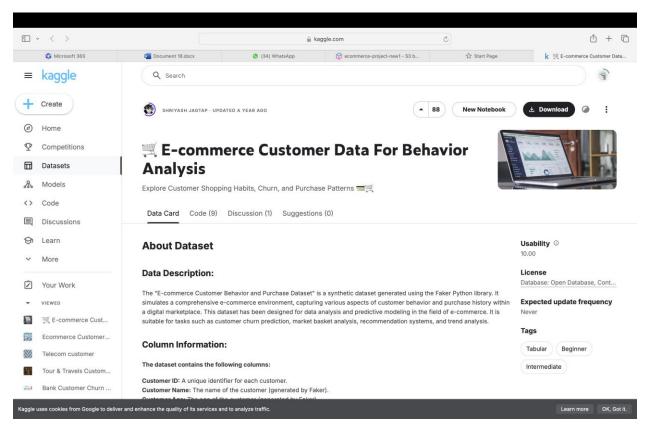
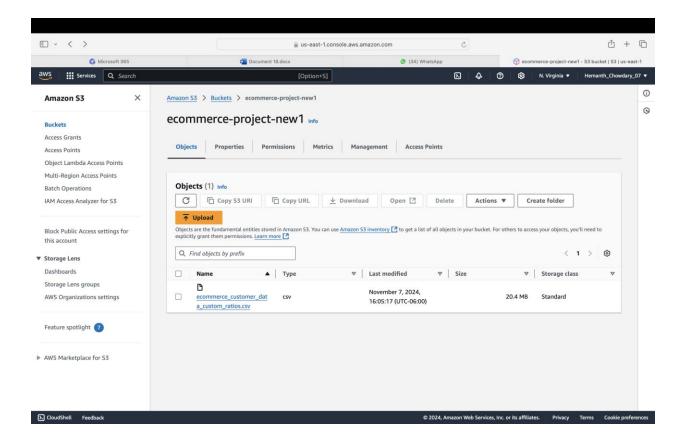
## STEPS:

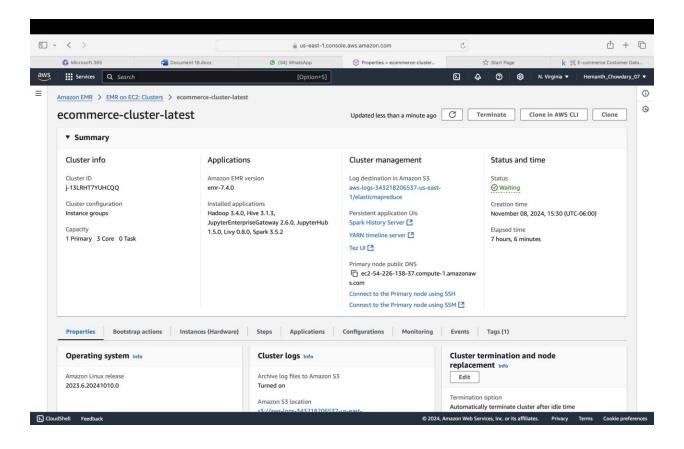
1. First we will download the data set from Kaggle and then we will store it on our system.



2. Then we will login into our AWS account and then create S3 bucket with project name and upload our data set init.



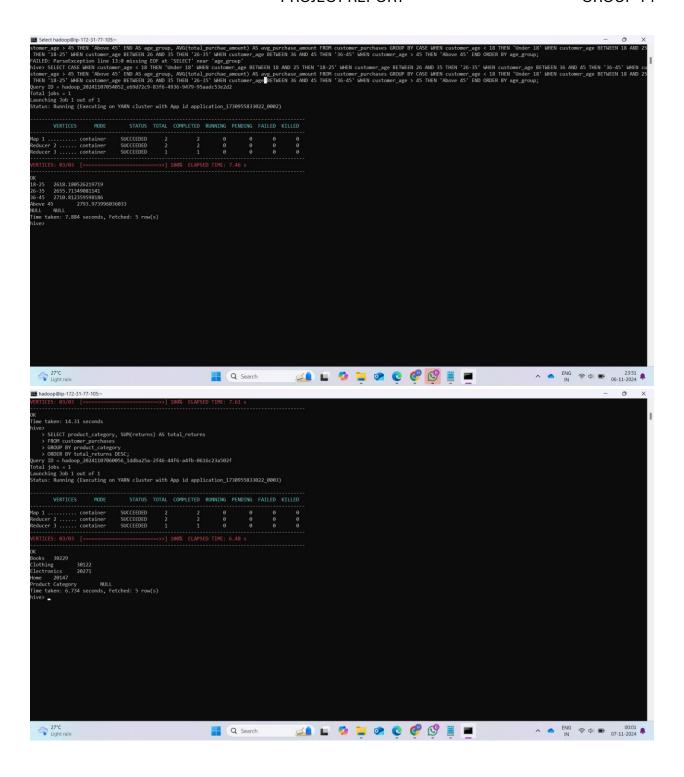
3. Then we will create a Cluster in EMR with all the permissions, key pairs and policies and run the cluster.

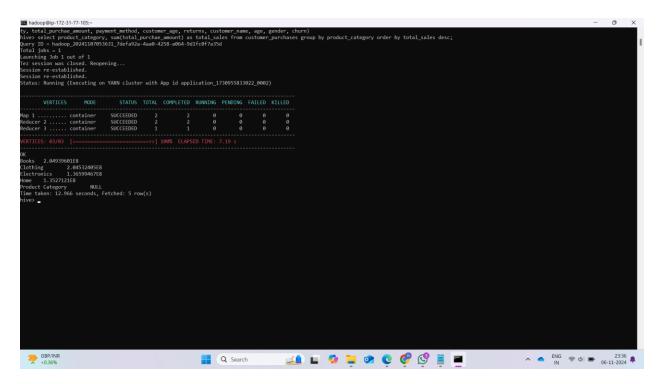


- 4. Then we will Copy the DNS and we will run EMR in our terminal using the DNS id and Keypair we used in EMR cluster.
- 5. Then we will start Hive in EMR.
- 6. Then we will Load the data set which is in S3 bucket by giving its path and create a table with that data.
- 7. Then we ill analyze the data in HIVE by running some queriues to know the properties and structure of our data.



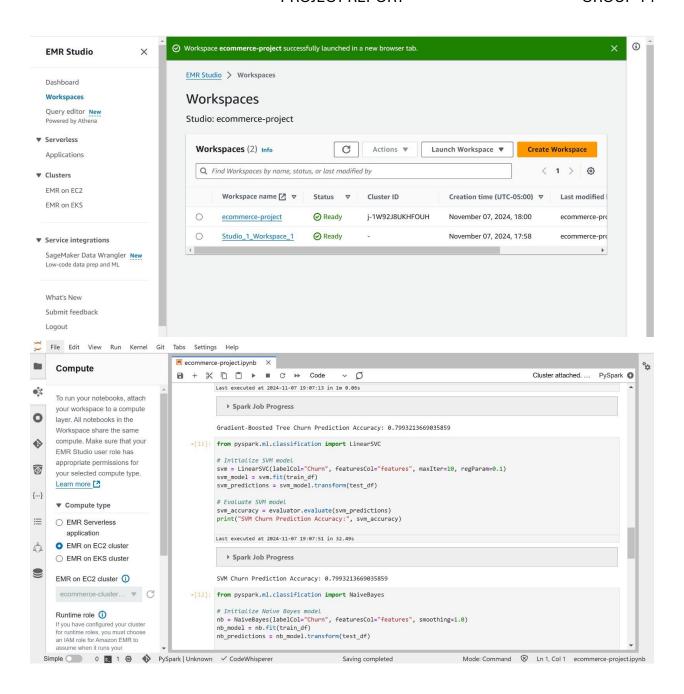
## PROJECT REPORT



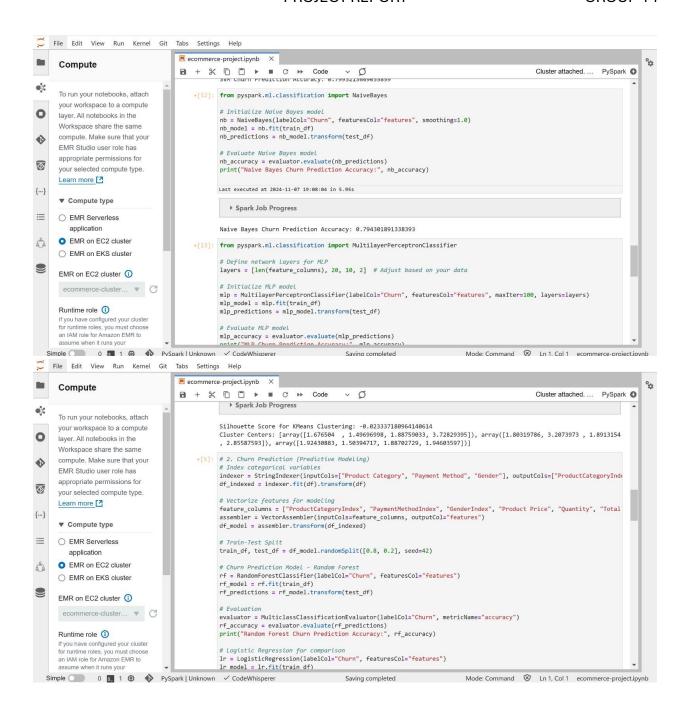


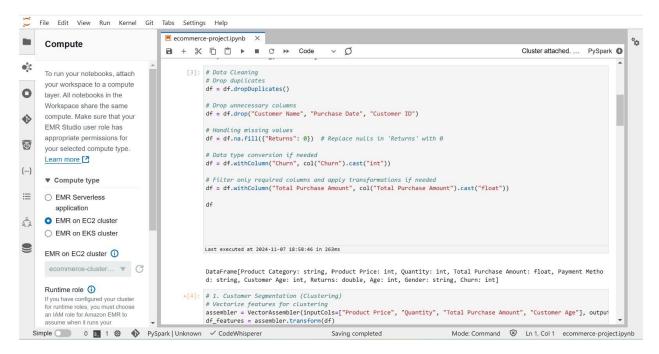
- 8. Now Data analysis is completed in HIVE. Then we will Preprocess the data and analyse, train and the test the data in Pyspark In aws using machine learning models.
- 9. So we will use the same bucket with our data set and run the cluster with required policies including Jupiter Notebook to run the Pyspark Code.
- 10. So we run the cluster and then we will go to studios and create a new workspace to run our pyspark quieries in jupiter notebook.
- 11. Then we will quick launch our workspace and Jupiter notebook will be opened and now we can create a notebook with ecommerce name and we will run our queries by selecting Pyspark as kernel.

## PROJECT REPORT



## PROJECT REPORT





12. Then we will Visualize the data with our machine learning Models with accuray and f1 score suing pandas, matplot and seaborn libraries.

