**README**

Source Code: The Source code is with the filename : “DemandForecasting.py”

Report is in the file: "IshanaShinde \_DeekshaGangadharanSrinivas\_Report.pdf"

Data is downloaded from the following website: <https://www.kaggle.com/competitions/favorita-grocery-sales-forecasting/data>

Video link is present in the file: " video\_IshanaShinde \_DeekshaGangadharanSrinivas.txt"

Since we are using Facebooks Prophet Model, we ran our code on the Databricks Cluster.

Databricks Cluster Setup:

1. Setup cluster

The Cluster was set up within the workspace using this runtime version and the necessary libraries were installed into the cluster.

Databricks runtime version required to be compatible with the libraries - 9.1 LTS (includes Apache Spark 3.1.2, Scala 2.12).

Libraries uses – Prophet

1. Data Upload

Upload Data files under the data section of cluster as shown below.

Graphical user interface

Description automatically generated

1. Spark Job to run the code

To run the code we create a notebook connected to the cluster. Put all the code there. WE have called our file Demand\_Forecasting\_final

Graphical user interface, text, application, email

Description automatically generated

Create a job by following these steps on the databricks console. Workflows - Create Job - Give task name - Select the cluster

Select the notebook (Demand\_Forecasting\_final) - Create

To run this file open the job that got created and click on Run now. The job starts and the logs and output can be observed using the console features.

A screenshot of a computer

Description automatically generated