Demand Prediction June’22 ,Self Project

Tool: Python, statmodels, fbprophet

Objective: To study and implement various forecasting models like ARIMA, Exponential Smoothing and Prophet to predict demand

● Analyzed the given data to check for stationarity and decomposed it to get level, trend, seasonality, and residue

● Performed ADF test to check stationarity and used PACF and ACF plot to set hyperparameter values for ARIMA model

● Achieved accuracy of 17.8% and 24.2% MAPE by implementing Facebook’s Prophet model and ARIMA model