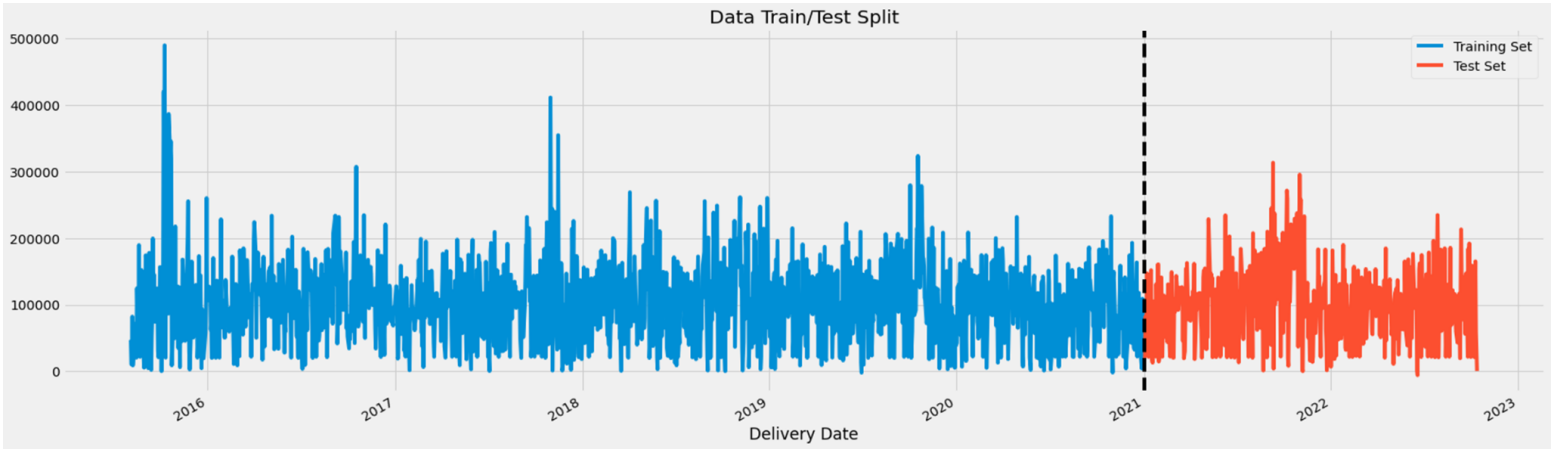
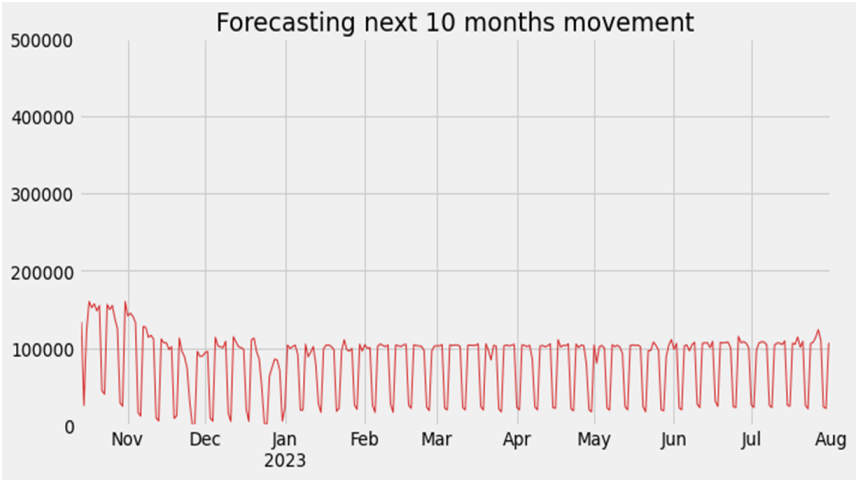


# REPORT

Given is the TimeSeries data of the shipment till 2022-10-13.



On the data provided, XGBRegressor is trained after appropriate preprocessing and forecasting for the next 10 months is made. The predictions are then plotted on the graph to depict the pattern better.



## OBSERVATION

- After analysis of the data provided, it is observed that the cumulative sum of movement value for 4th quarter is comparatively higher than the other quarters.

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## EMAIL DRAFT

Hello,

The data brought up by you is quite interesting and captures many hidden information that might help the leadership team while working. The key observations that I made while analyzing the data are mentioned below:

1. The variation in movement value of the shipment is captured quarterly.
2. The movement value peaks generally during the end of 3rd quarter to the onset of 1st quarter of next year( not necessarily the fiscal year).
3. Alongwith the quarterly variation, the value also varies within a month. It has been observed that the movement value dips towards the end of the week i.e. on weekdays. Hence this is captured in the graph attached in the report by 4-5 trough in a month.
4. The forecasting for next 10 months shows a similar trend and a good business is expected both at plant level as well as customer level.

I believe the insights provided will be useful to you as well as the organization. Please let me know if you have any queries in the report or the insights provided.

Thanks and Regards

Akshay Shikhar Srivastava