



Payment Forecasting of Etisalat Customers in Year 2022

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Outline



- Objective
- Introduction
- Architecture / Workflow
- Results & Outcomes
- Future Work
- Conclusion



Objective



Apply machine learning techniques to a real work problem

Forecasting the consumer payments for year 2022

Recommend changes in the infrastructure of payment system



Introduction

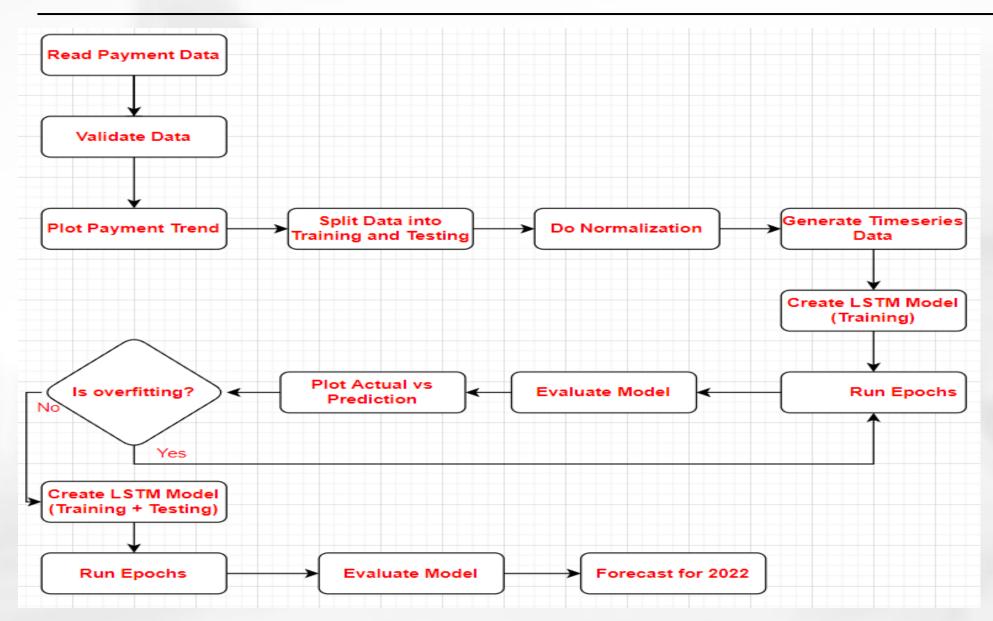


- Etisalat payment system.
- Machine learning.
 - Supervised learning
 - Unsupervised learning
- Time series sequential model



Architecture / Workflow



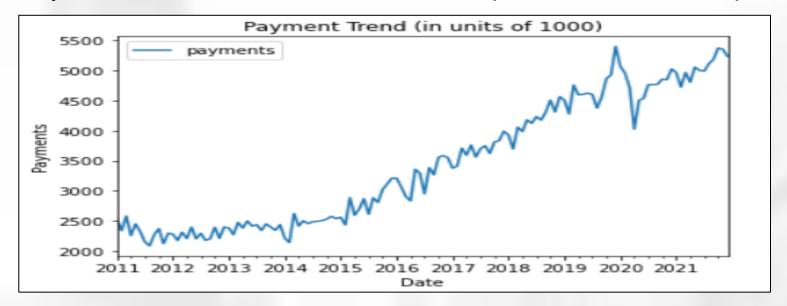




Results & Outcomes



Payment Trend in Last 10 Years (in units of 1000)



Payment Inflow in 2021 (Actual)

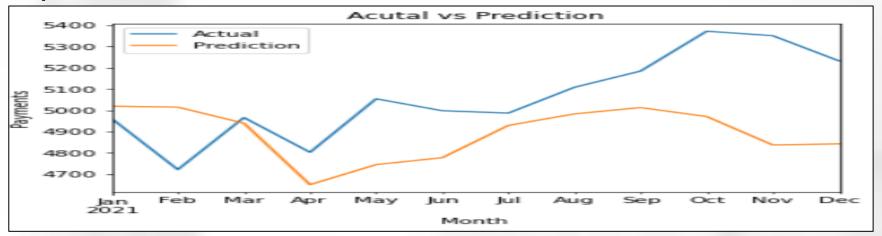
Description	Average Payments (Counts)
Total payments in 2021	60,000,0000
Monthly payments	5,000,000
Daily payments	170,000



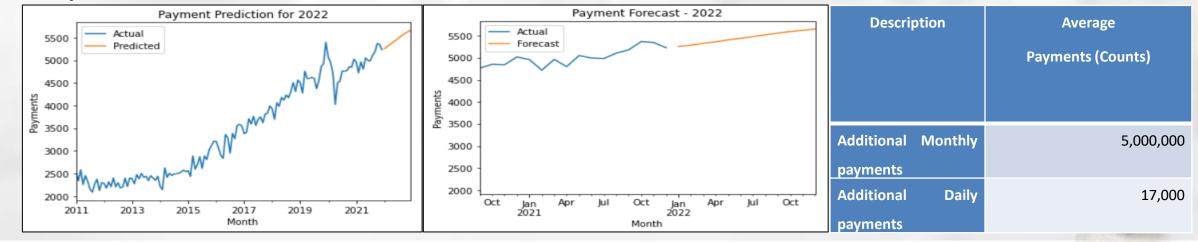
Results & Outcomes Cont...



Payment Trend Actual vs Predicted for Year 2021



Payment Prediction for Year 2022



Future Work



The model is extendable to the enterprise customer



Conclusion



IT Infrastructure Details of Payment System.

WebLogic Servers	No of servers = 4	No of clusters/instances = 16 (=4*4)
Oracle Database Server	Physical Memory = 273	GB with 40% of current utilization

- Current throughput of each instance is 11,000 per day in 2021
- Predicted throughput of each instance is 12,100 per day in 2022 (10% 1)
- Recommendation
 - ➤ 1 WL server (4 clusters) by end of 2022
 - ➤ Increase the physical memory of Oracle database by 10% (7-10 GB) by end of year 2022

