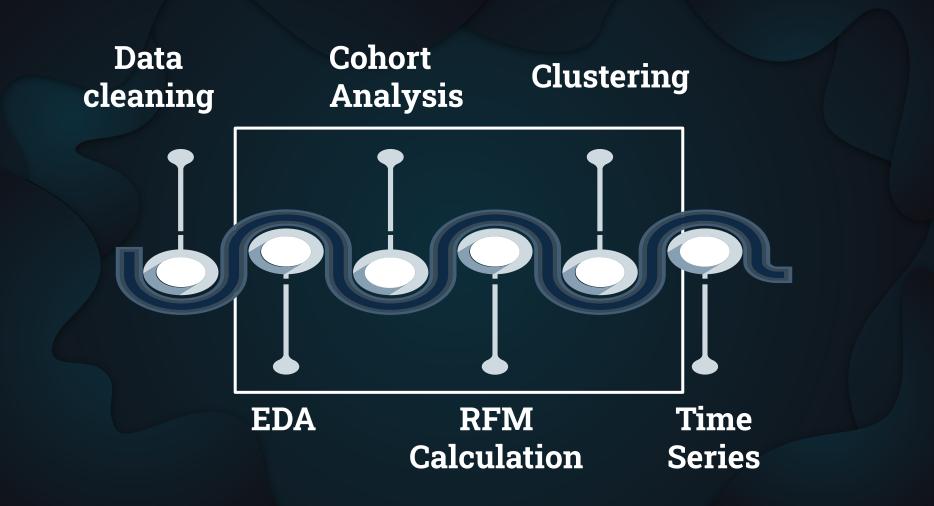


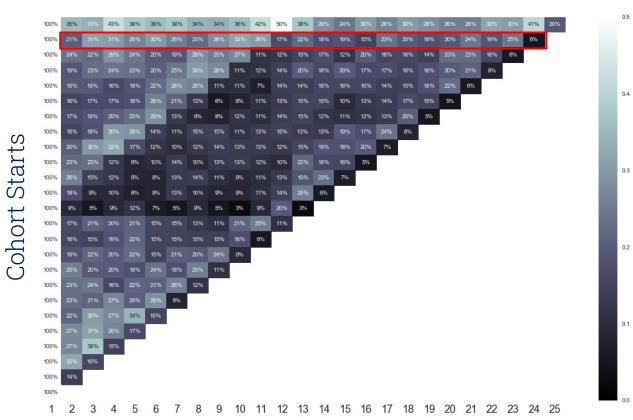
Precision Marketing for E-Commerce

Alen Tersakyan

How can we efficiently target customers?



Cohort Analysis



Months since first purchase





Days since last purchase



Frequency

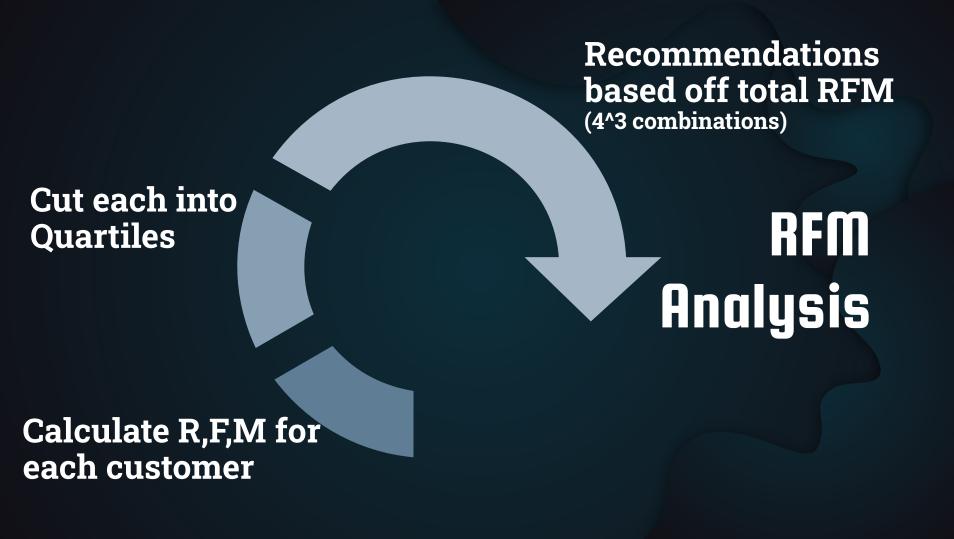
Number of purchases in time window



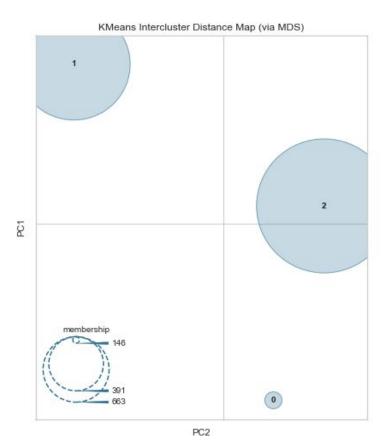
Monetary

Total revenue in time window

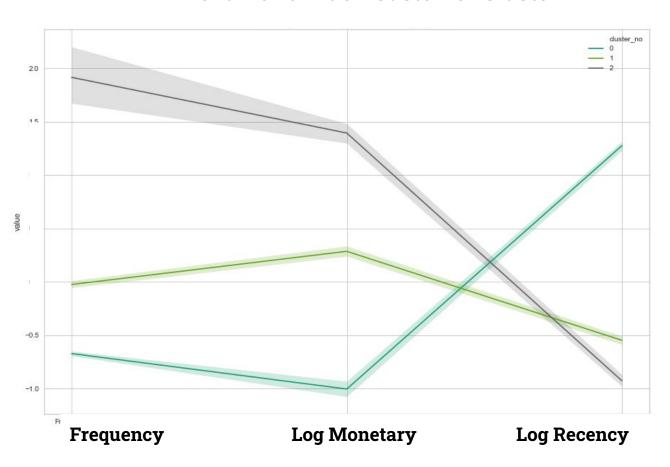
RFM Analysis



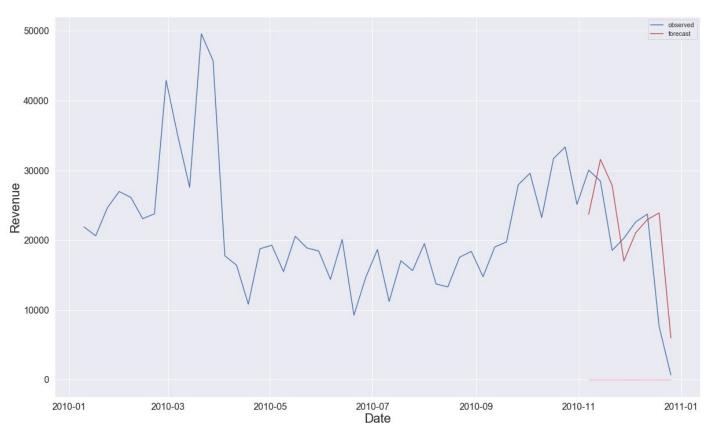
Cohort clusters for QI-4



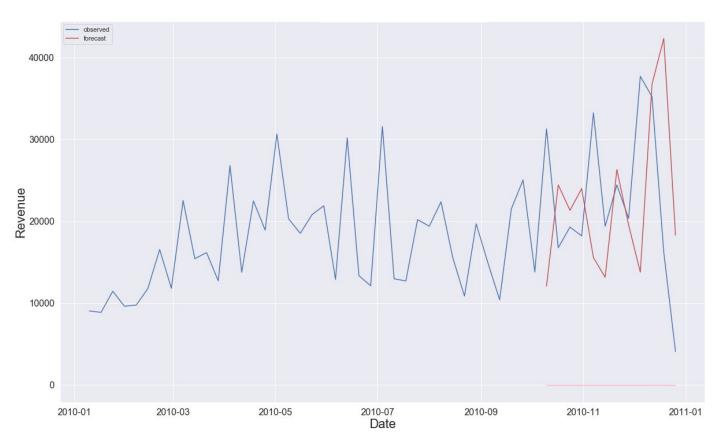
RFM Behavior of Each Customer Cluster



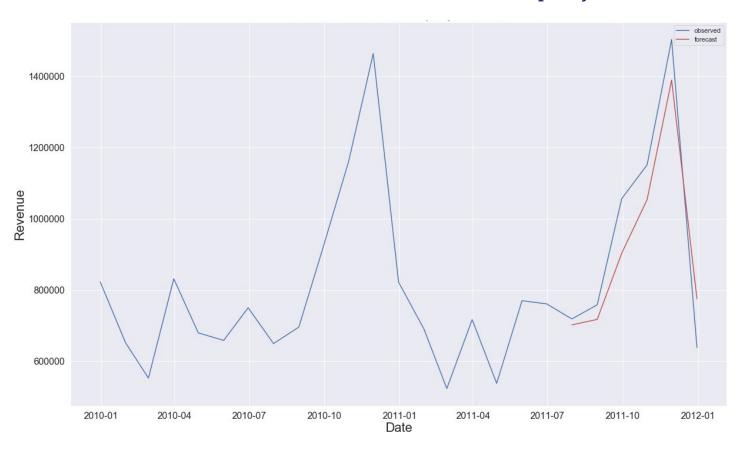
Cluster 1 Time Series Forecast



Cluster 2 Time Series Forecast



2 Year Time Series Forecast for Entire Company Revenue



Recommendations

- Create new RFM score for each customer every month- quarter to see how their behavior is changing over time
- Cluster customers at every time period
- Try to develop the individual time series models more to help inform customers to target.

Thank You

Summary

- Goal: More efficient/targeted marketing strategy, based on customer behavior
- 2 <u>Customer Behavior</u>: Cohort Analysis + RFM
- 3 Clustering: KMeans to cluster customers based on RFM
- **Time Series**: Time series on different clusters