Project: Bank

Participants:

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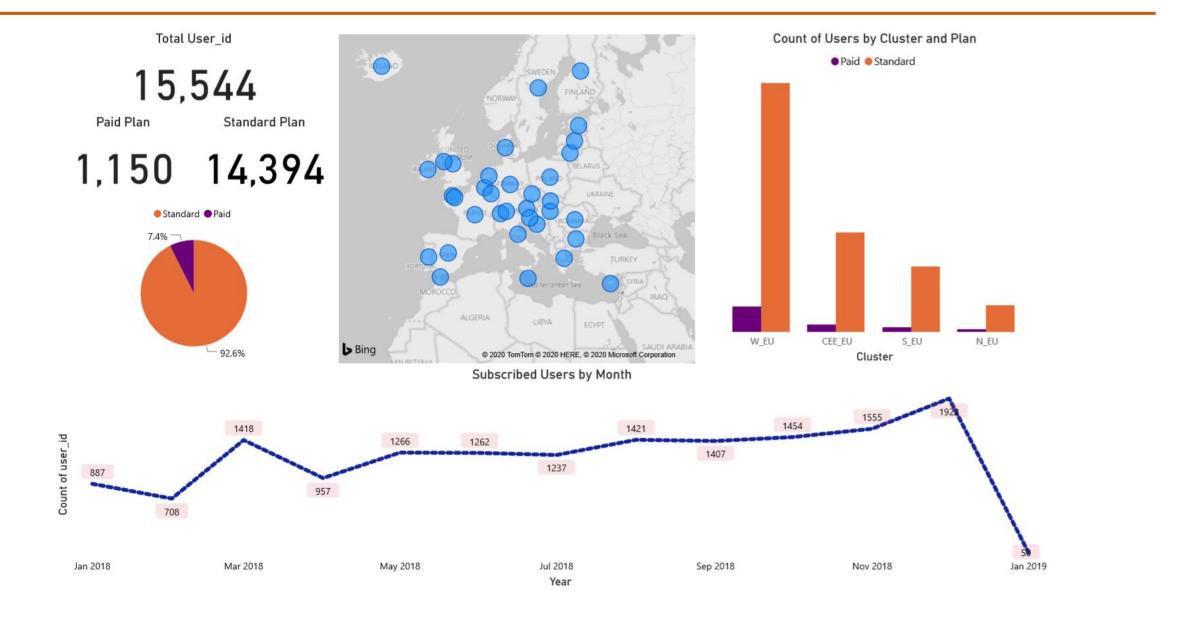




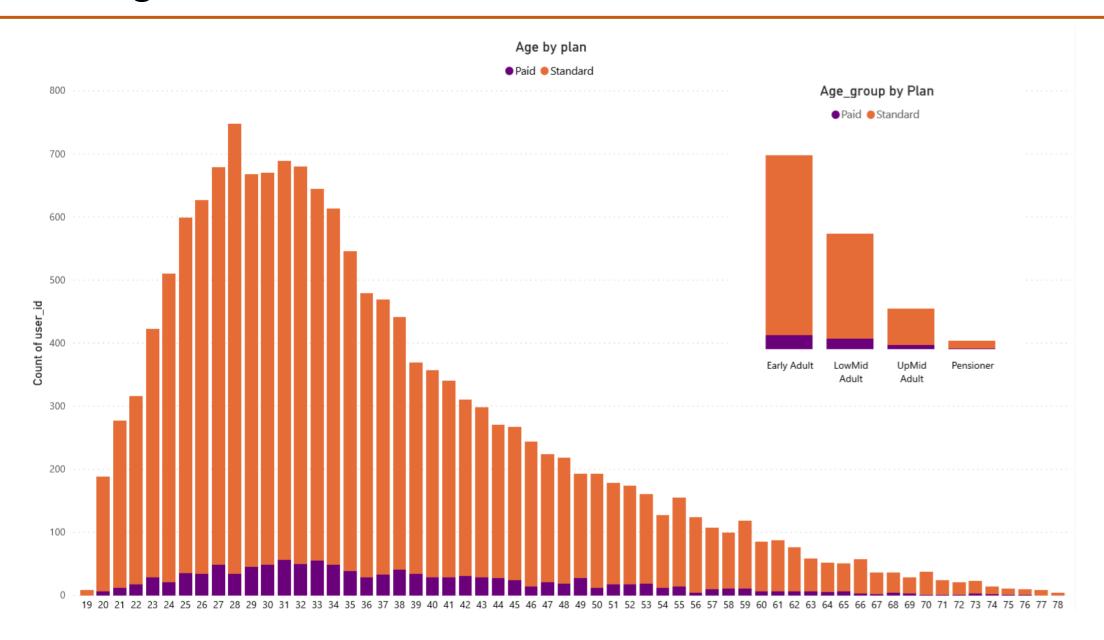




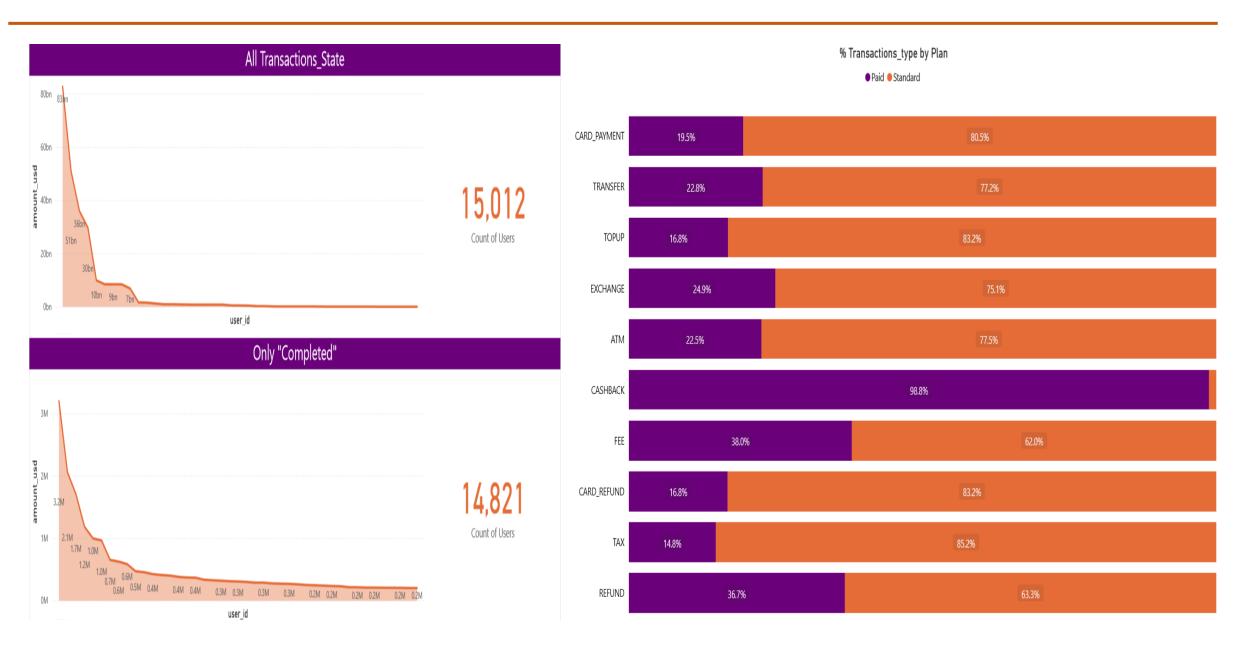
Characteristics of registered bank users



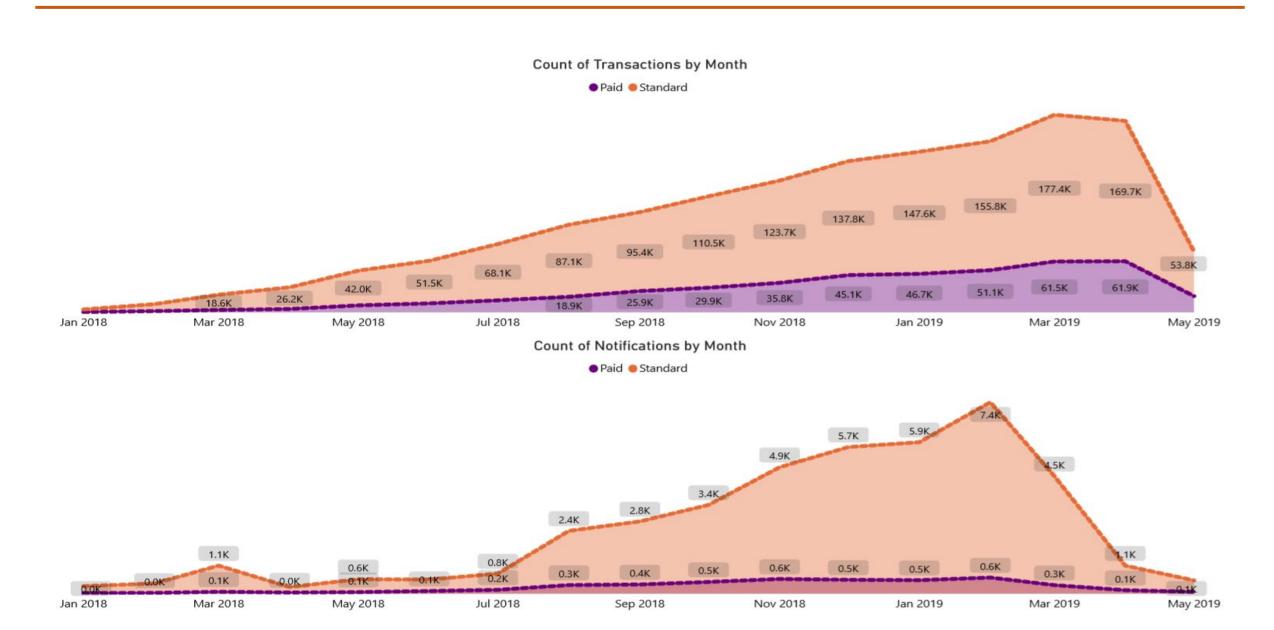
Users Age



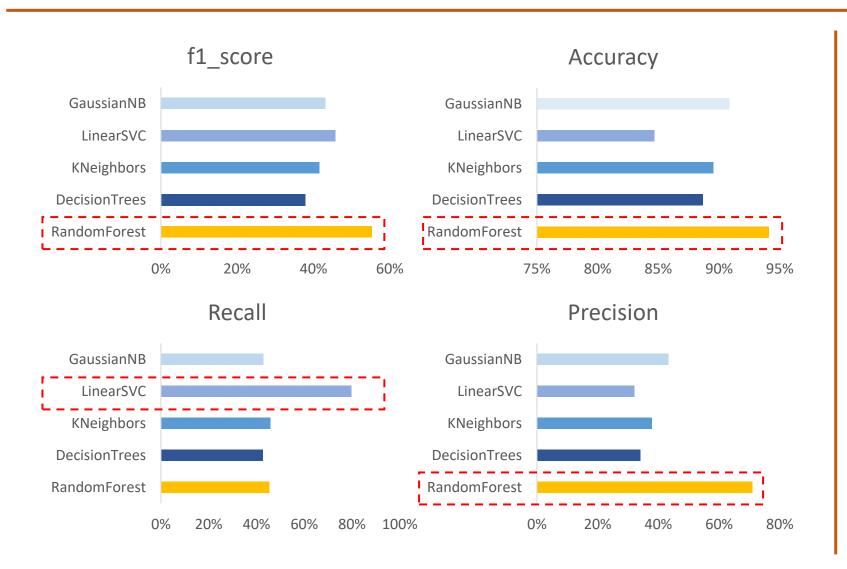
Users Transactions



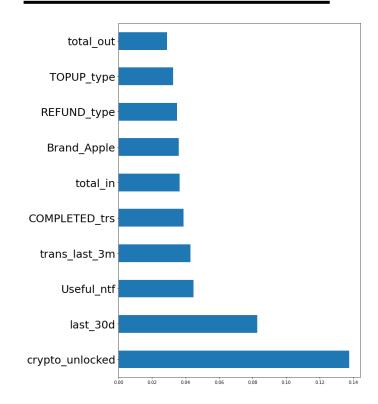
Transaction vs Notification



Classificator choice



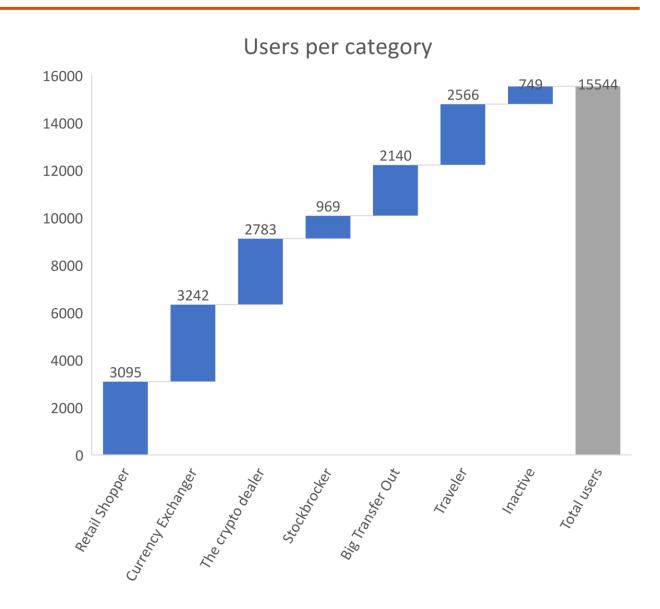
Random Forest Feature Importance



User modelling

User characteristics:

- MCC type of outbound transactions (mccs categorized based on ISO 18245:2003)
- Transaction type (only completed transactions)
- > Total amount in USD spent during this period
- Minimum transaction amount in USD
- Maximum transaction amount in USD.
- Mean transaction amount in USD



User categories



This king of user spends double the amount spent by other users on transportations and service providers. Although he spends almost equally across the other mcc categories

Inactive

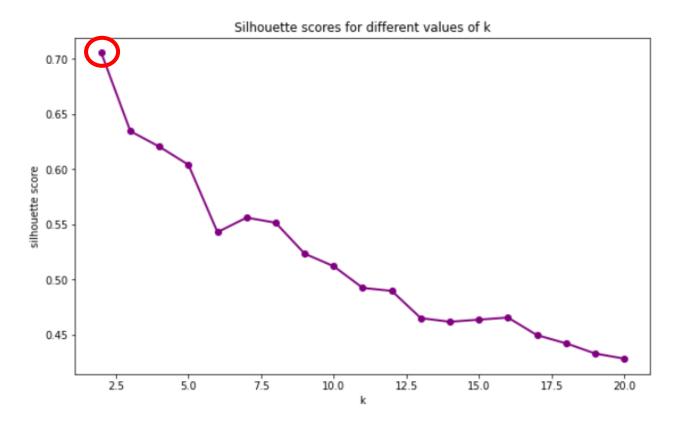
Users that haven't created any transactions last seventeen months

Zz

This group's main characteristic is their ability to use the cryptocurrency settings, and almost equal money spent on Retail, Currency Exchange and Tranfer(Outbound) transactions

Churned Users

Clustering with KMeans: k=2-20



The centroids for k=2:

	total sum	total count	days_last_trans
0	10077.64	156.73	27.28
1	1349.58	18.74	254.23

Engaged users (0)	11875
Unengaged users (1)	2946

Actions to reduce churned

Marketing actions to unengaged users:

- > Discount on subscription plan
- > Free 1-month paid plan
- Promo notification based on user category
- Paid plan with benefits based on amount spent

