

Customer dashboard & Merchant Recommender



Merchant Recommendation



Customers spend at various merchants using their credit cards. 1) How customers keep track on their spend 2) How bank can send right offers to the customer

Business Case

Analytical Solution



Track Customers'
Spend Behaviour on
Credit Cards

Spending trend in categories of merchants like food and drink, clothing, healthcare etc.

Recommend offers to customers on specific merchants

Discounts on future transactions in merchants customer might like



User based Collaborative Filtering technique used to provide merchant recommendations



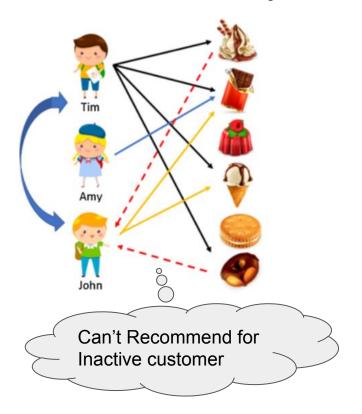
Based on Customer spend and demographics, identify similar Merchants/customers and recommend new merchants*

Three months of credit card transactions (June to August 2020) are analysed for 100 random customers.

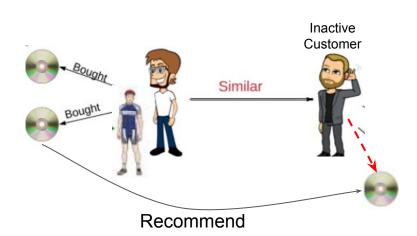
In the user interface recommendations and discounts are provided for customers to avail.

Recommendation Engine

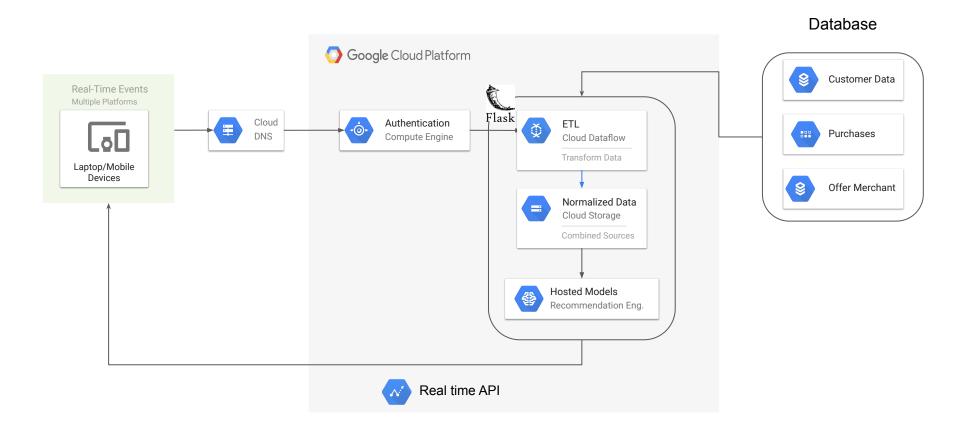
User-User Collaborative Filtering



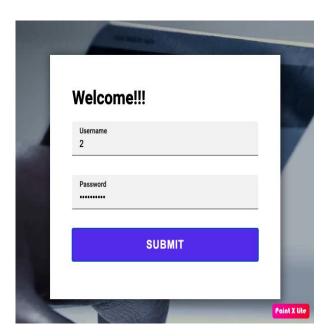
Similar user based on Demographics



Architecture



Dashboard Screenshot + UI





You may like!!!

Using your XYZ credit card ends with 0005

- 15% cashback for purchase on Canara
- Get 10% instant discount on BP
- 10% cashback for purchase on Tambola
- Get 5% instant discount on McDonalds
- Get 100 points for purchase on Paint X lite

Click here

Learnings & Way forward

- Build APIs for viewing portfolio level product KPIs (like balance movements of loans/credit cards etc.) for quick reference and better visualization by product holders or business counterparts.
- Create APIs for visualizing trends in customer demographics and product holdings (with availability of data in GCP).
- Use github for version control for codes in most projects