MARKET RECOMMENDATION ENGINE

DIVINE AI INTERNSHIP MAJOR PROJECT

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DOMAIN

- ■Machine Learning
- ☐ Recommendation engine
- Market analysis

PROBLEM STATEMENT

☐ Predict what the customer is going to buy next by looking at the products he/she is buying.

DATA COLLECTION

- ☐ Data has been collected from Kaggle : data-set
- □ Data contains lists of grocery items bought by multiple customers in a single purchase.

EDA

- □ Number of items bought by users in a single purchase
- ☐ Top items bought by the users
- Average of number of items bought by users in a single purchase
- ☐ Median of number of items bought by users in a single purchase

DATA PROCESSING

- Removing NaN values :
 - When the data was read all the empty cells were read as NaN
 - As the Apriori algorithm does not work with NaN, those need to be removed
- ☐ Taking input from the user of the item for which we need too give a recommendation
- Making a final list of given shopping lists that contain the item for which we need to give a recommendation

MODELLING

Using Apriori algorithm on the final list of lists, to recommend a user a new item.

WHERE TO IMPLEMENT THE PROJECT?

- ☐ Grocery Stores
- Convenience Stores
- Supermarkets
- ☐ Food delivery companies
- ☐ E-commerce companies

SUMMARY

☐ The machine learning model helps us recommend them new items to a user based on his/her previous purchase which in turn will increase a company's sale.

The machines learning model can also help users by recommending items that they had to purchase but they may have forgotten.

THANK YOU!