

## ReadMe

We have implemented a Python Class for implementing the Apriori Algorithm to recommend items to a customer when they choose to add a product to their cart.

Steps for running the program.

1. Unzip the folder at a location of your choice.
2. Now install python interpreter or anaconda.
3. Once installed go to the directory which contains the 'Apriori\_Comet.py' class and run 'python Apriori\_Comet.py'.
4. You will get the Association Rules along with their support and confidence. Apart from that you will be prompted for making a selection of item you want to buy.
5. Type the item name you want to buy. Once you enter you will find some recommendations being made. These recommendations have been derived from the Association Rules we mined from the data. Continue shopping or Checkout. Once you checkout "Thank You for shopping with us" will be displayed on screen.

Note:

1. By default we are using 100000 rows from our dataset which amounts to nearly 8633 transactions made by customers. This is so that the processing time doesn't take long. In case you want to run it on entire dataset then from line '185' remove .head(n=USED\_ROWS) but please beware this might take a very long time as this data contains much more than a million records.
2. In the main function we are providing MIN\_SUPPORT\_IN\_PERCENT = 1 and MIN\_CONFIDENCE\_IN\_PERCENT = 10. You can play around with these numbers to get various results. In the case you don't provide Support and Confidence we are taking 1% as support and 1% as confidence as defaults.