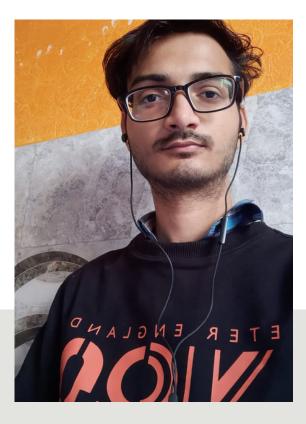
ALCHEMIST



HARSH TANTI NSUT



CHIRAG BINDAL
NSUT



SATENDER SHARMA
NSUT

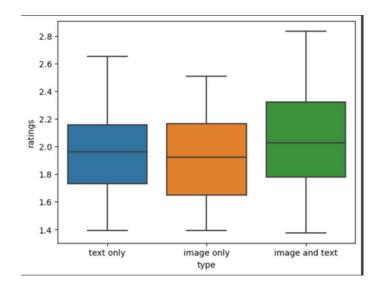
Adobe Experience Cloud Challenge

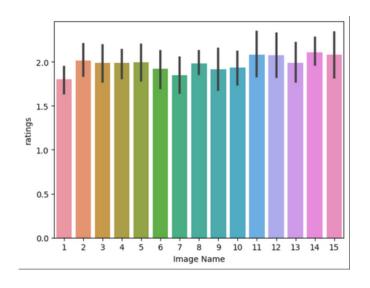
PROBLEM STATEMENT

Customer engagement is the most important tool to any enterprise or buisness. They spent ton of assets on customer personalised experience. In this process they failed to understand what attracts customer toward certain post or social media advertisement. The major problem is what content, size or image in the particular category engage the targeted audience.

OBSERVATION ON DATA

- Data taken from Kaggle <u>ADS-16 Computational Advertising Dataset</u>
- Dataset contains 1.) Customer response to the post of each category 2.) 300 real advertisements (i.e., Rich Media Ads, Image Ads, Text Ads) rated by 120 unacquainted individuals
- Advertisement belong to 20 product/service categories.
- 300 Ads —> 100 Rich Media Ads, 100 Image Ads and 100 Text Ads.
- answers to Big Five Inventory-10 personality test
- Five recently liked post and disliked post and user reaction to same
- user info such as demography, age, income etc.
- user preference data such as most visited website, most reads books, favourite sports etc.



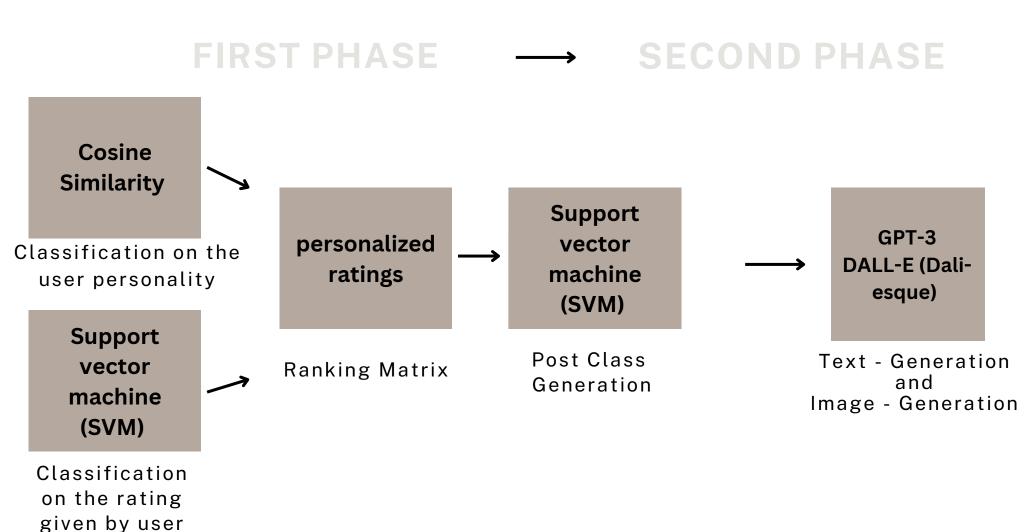


Pre Processing

- Removed punctuations
- Converted to lowercase
- Concatenated all the columns
- Removed stop-words
- Lemmatization
- Removed URL and HTML tags
- Extracted text from ads image

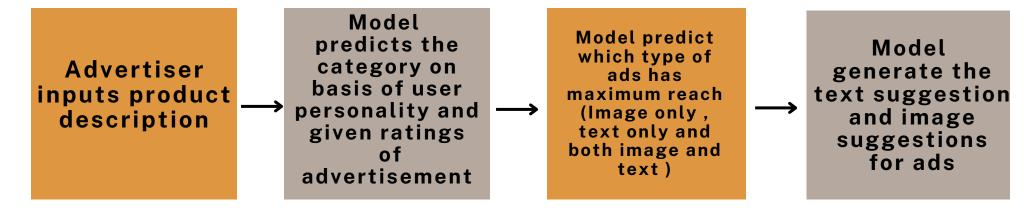
- Removed rare words
- Removed more frequent words
- Used Python-tesseract, an optical character recognition (OCR) tool
- Extracted keyword from ads text and recently liked posts
- Calculated Big-Five personality scores (O-C-E-A-N) of each user

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MODEL

MODEL WORKING



FUTURE AREA OF IMPROVEMENT

- We can also use consumer's personalised information so that we can target audience more precisely.
- Increase the size of the training dataset. This can help the model learn more patterns and improve its ability to make accurate predictions.
- We can predict which demographic area have demand of particular category
- We can increase accuracy by using ensemble method
- we can also implement recommandation of images by providing variations of image to the user that suits the user to improve user experience.