Gauging User Perception on Music Applications from Playstore using Sentiment Analysis

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INTRODUCTION

This project aims to compare Music Applications such as Pandora, Spotify and Amazon music by using scrapped data (user reviews) from Google Playstore.

Application of sentiment analysis technique using Python on user reviews. Comparison of Music applications on the basis of four essential factors such as Cost, Collection, Stability of Application and Advertisement.

Additionally, portraying a sentiment score on user in order to give the user a perception of their review on the Internet before they upload the review.

LITERATURE REVIEW

Music apps have revolutionized the way people listen to music in this era. Music apps have provided artists and audiences with a platform to share content and enjoy music

In this growing age of technology and music where there is cut throat competition and plenty of options for the users to listen from, user reviews their impact play a more significant role than ever.

Our aim through this project is to see what user preferences are through an analysis of their reviews and see which app garners the maximum levels of satisfaction.

RESEARCH DESIGN AND METHODS

Website Scrapping:

Performed Web Scrapping on User reviews from the Google play store using selenium package in order to automate web browser interaction from Python. Used ChromeDriver to launch and perform tasks on Google play store.

Sentimental Analysis using VADER:

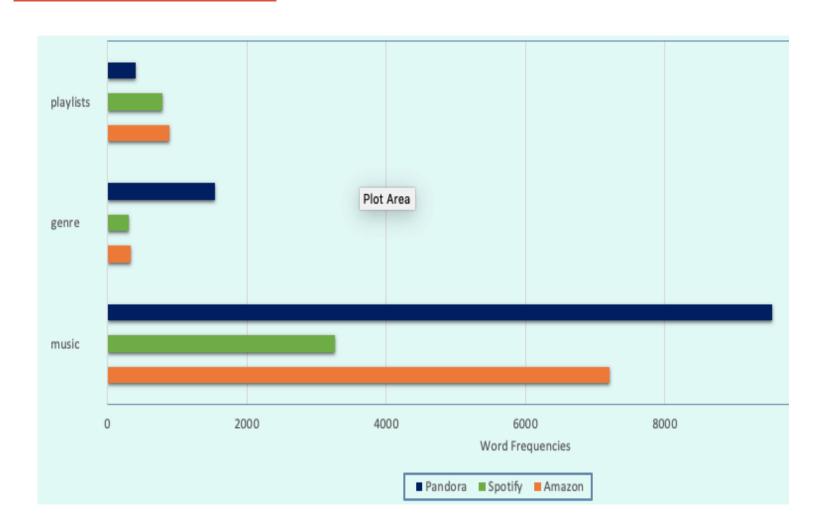
Aware Dictionary Valence Sentiment Reasoner is a lexicon and rule-based sentiment analysis tool that is specifically attuned to sentiments expressed in social media. It uses a combination of sentiment lexicon which is a list of lexical features (e.g., words) which are generally labelled according to their semantic orientation as either positive, negative or neutral.

Aspect Based Analysis:

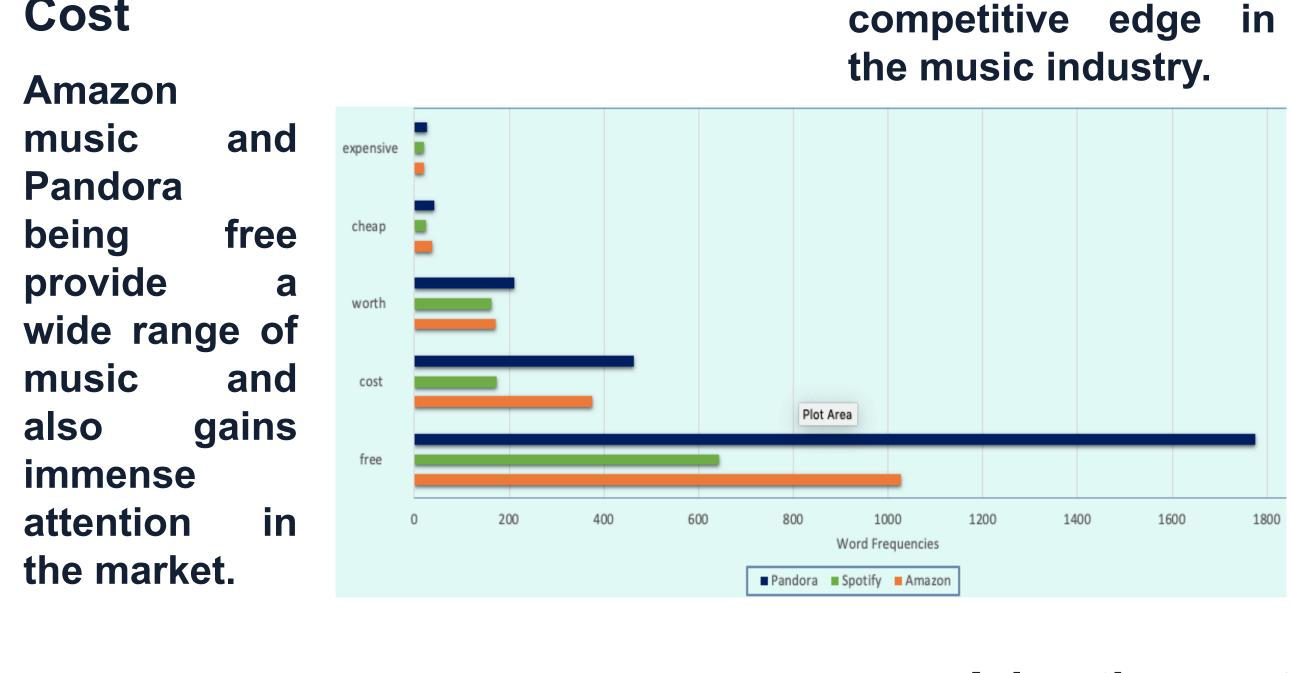
Analyzed each review to identify various aspects such as Cost, Advertisement Collection, and Stability of App and determined the corresponding sentiment for each of these factors. Customers are more vocal than ever. They love leaving feedback - good and bad - making them a valuable resource for businesses



RESULTS:



Cost



Advertisement & Spam

Song collection:

collection,

true since

immense

offers

diverse

Based on the song

great

choices. This deems

our hypothesis as

playlist collection and

diverse genres with a

very low subscription

Spotify

music

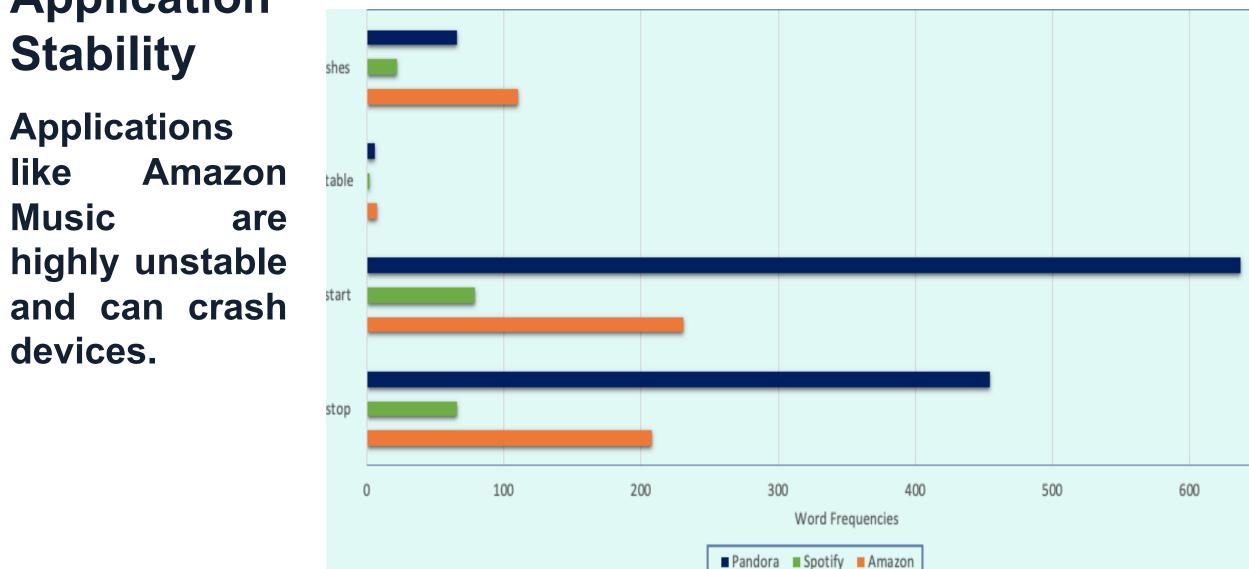
Spotify's

gained

Pandora's free version gains more attention in the market within a age although advertisements can act as interruptions which proves hypothesis true.

■ Pandora ■ Spotify ■ Amazon

Application



CONCLUSION

Our analysis on the scrapped data sets shows that amazon music is the most preferred app due to its higher positive sentiment score and the. Factos that play a role in getting these positive reviews are lack of advertisements, free usage for prime Both subscribers. cost and advertisements play a major role in amazon music being the dominant music app.

FUTURE WORK

Our future work would include creating an interface to take in user input in the form of reviews after which we would give them a feedback with the sentiment score of their input as negative, positive or neutral to tell them the effect of their review on a particular application.

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