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OBJECTIVE

To develop a new product optimally and create some marketing strategies.

To increase market share, brand value and customer satisfaction.

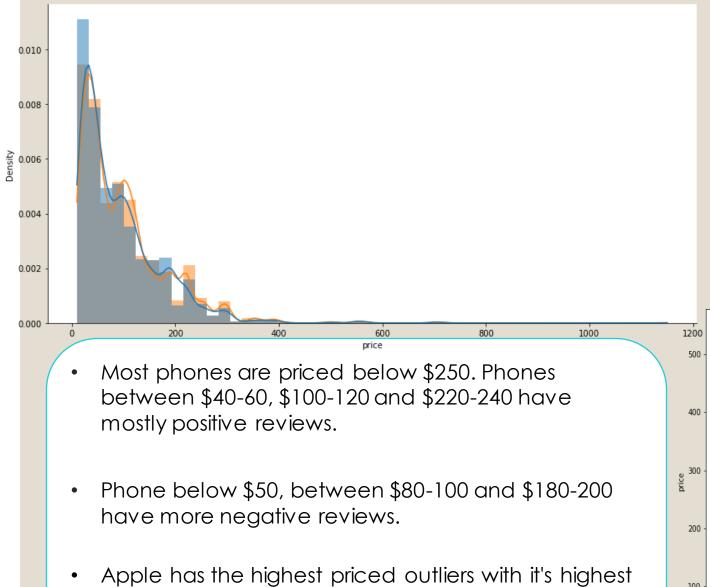
To understand competitors and user preferences for modifying strategies.

BACKGROUND

A Mobile manufacturer based in the US that entered the market three years ago.

As a new entrant to the industry, requiring insight on competitors and customer preferences for marketing strategy optimization.

Price Distribution by Review sentiment



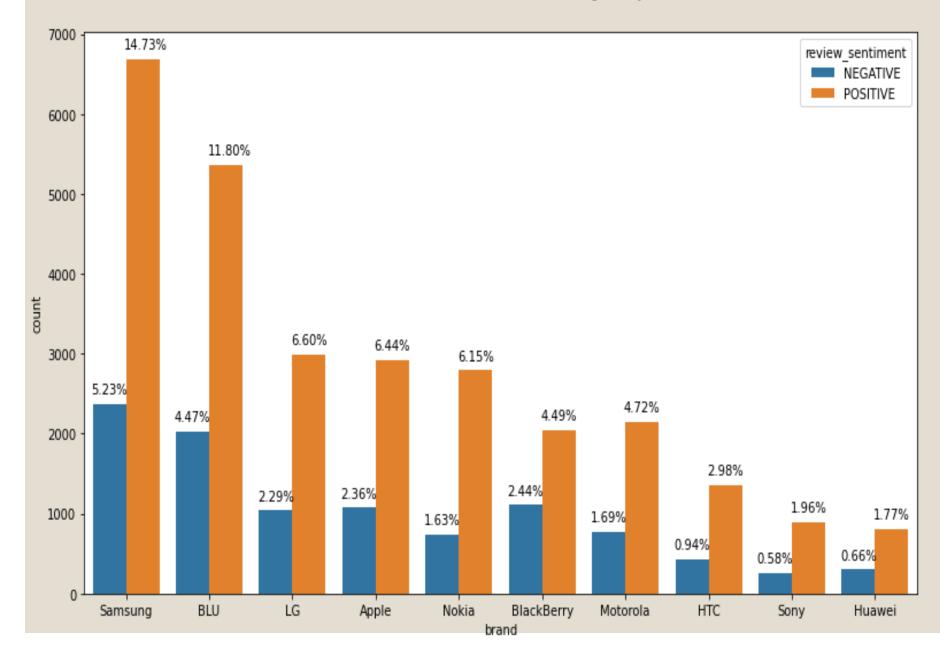
near \$600.Samsung has an evenly distributed price

range with outliers in the \$250-\$400.

500 -400 -200 -

Price Distribution by Top 10 Brands

Review Sentiment Distribution by Top 10 Brands



- Samsung is the Top Brand based on number of reviews.
- BLU, LG, Apple and Nokia make up the Top 5.
- Nokia has the widest Positive: Negative Review ratio out of all brands.



Negative Word Cloud

- Screen
- Battery
- Time / Call

Positive Word Cloud

- Screen
- Battery Life
- Device/Time

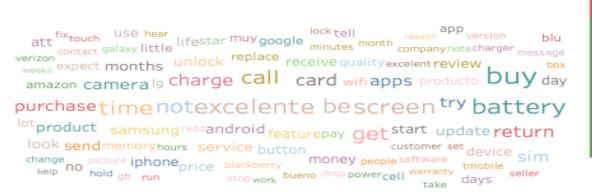


Positive WordCloud

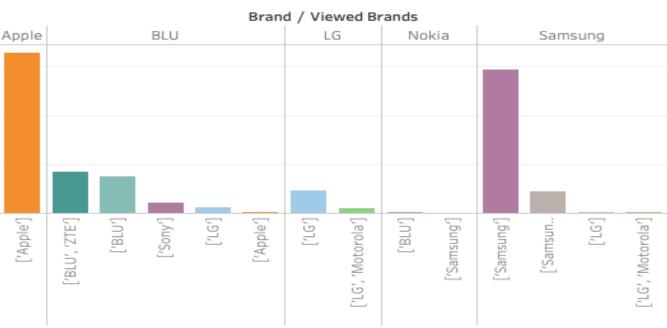




Negative WordCloud

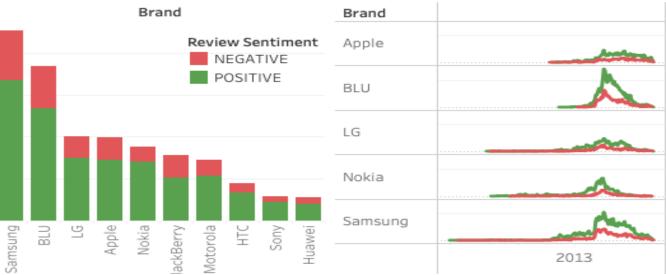


Top Viewed Brands for each Brand



Top 10 Brands by Review Sentiment

Top 5 Brands by Time and Review Sentiment



Recommendations:

- Battery Life and Screen should be the priority features for creating the optimal phone.
- The price should ideally fall within the \$40-60 or \$80-120 range for reasonable to mid-tier pricing as these are more positively received. For high range pricing, \$220-240 range is recommended.
- Marketing strategies should focus on USP of the brand that sets it apart from others. Online marketing and interaction with consumers can improve brand awareness and sentiment.

Additional Key Insights:

- The primary concerns and positively received features of most phones among reviewers are: Battery Life and Screen.
- Most phone fall within the \$50-\$150 range. With the majority products priced below \$200.
- From the also viewed brands we can see that Apple has the highest brand loyalty among consumers.
- Samsung has the highest market share of all brands and has the highest brands loyalty after Apple.

Appendix: Data Methodology:

- Data from Amazon Reviews of cell phone data and metadata was cleaned of duplicates, missing data, unnecessary columns and merged.
- EDA was performed for more insight, then text data was preprocessing through stop word removal, stemming, lemmatizing.
- Positive and Negative features were extracted for Word Clouds and Tableau Dashboarding.
- Model was developed and Evaluated while testing accuracy with different classifiers and vectorizers.

Appendix: Data Assumptions:

- Also viewed brands, are used to indicate brand loyalty. If the also viewed brand is same as the original brand, high brand loyalty and vice versa.
- Number of reviews indicate market share of a particular brand I.e., the popularity of the brand