



Problem Statement

Objective

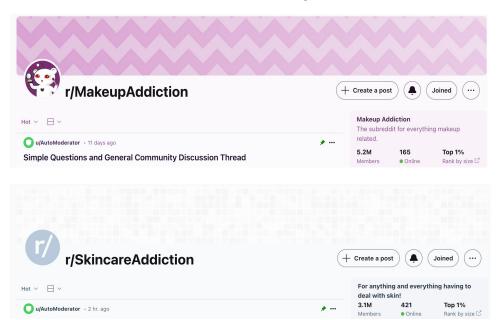
- Classify reddit posts based on titles
- /r/SkincareAddiction
- /r/MakeupAddiction

Goal

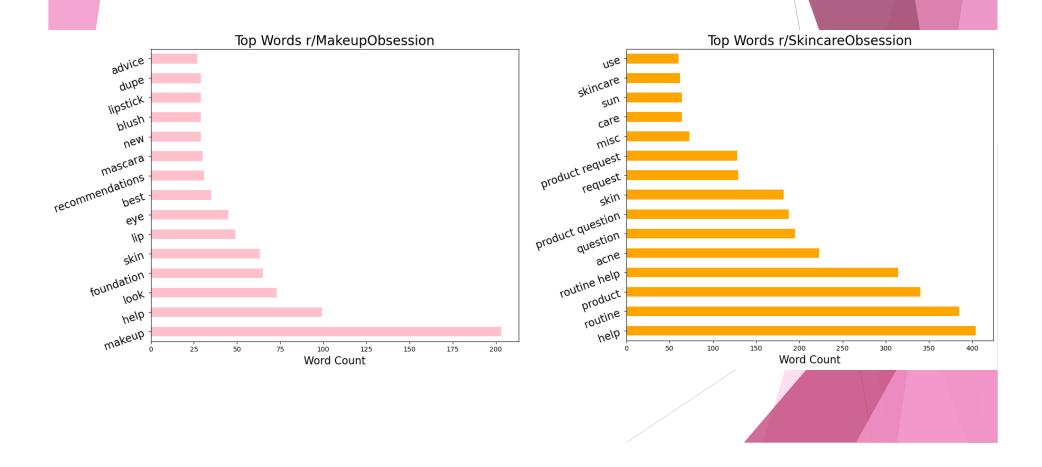
- Optimize SkinBeauty's marketing efforts
- Gain insight into the distinct interests of those seeking skincare vs makeup advice.
- Tailor product offerings to better serve these two distinct customer segments.

Data Collection

☐Utilized PRAW☐Total:1,912 posts



15 Most Common Words



Model 1: Logistic Regression + Count Vectorizer

Best Parameters

cvec__max_df: 0.9

• cvec__max_features: None

• cvec__min_df: 2

• cvec__ngram_range: (1, 2)

• cvec__stop_words: english

Accuracy	97.39%
Recall	97.41%
Precision	97.35%
F1 Score	0.97

Model 2: Random Forest

Best Parameters

• classifier__max_depth: None

• classifier__min_samples_split: 10

• classifier__n_estimators: 300

• vectorizer__ngram_range: (1, 2)

Accuracy	97.1%
Recall	97.73%
Precision	97.64%
F1 Score	0.97

Recommendations

- ☐ Logistic Regression Model
- Performed the best on the test data, had the highest accuracy and is easily interpretable
- Less computationally intensive

