Keeping Netflix on Top:

Analyzing User Reviews to Promote Customer Retention & Acquisition



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Roadmap

1. Business Problem

2. Data Summary and Preparation

3. Modeling and Analysis

4. Summary and Recommendations



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Business Understanding

- Need insight to inform:
 - a. Customer Retention Strategy
 - b. Marketing & Promotion Strategy
- Positive & Negative sentiments matter equally
- Course of Action:
 - a. Binary Classifier
 - b. Analyze Themes

Questions for us:

- a. How successful are we at differentiating between Positive and Negative reviews?
 - What can we learn from these reviews?

Data Understanding

- Dataset (updated as of March, 2025)
 - a. 127,000 reviews total Foreign languages present
 - b. 4 Columns (Content, Score, Thumbs Up, Date)
- TARGET: Positive vs. Negative
 - a. Data Imbalance:
 - Positive 39%, Negative 61%
- False Positives and False Negatives matter equally

Metrics: F1 Score

High F1 Score =

Low False Positive/Negative

Rate

Data Preparation

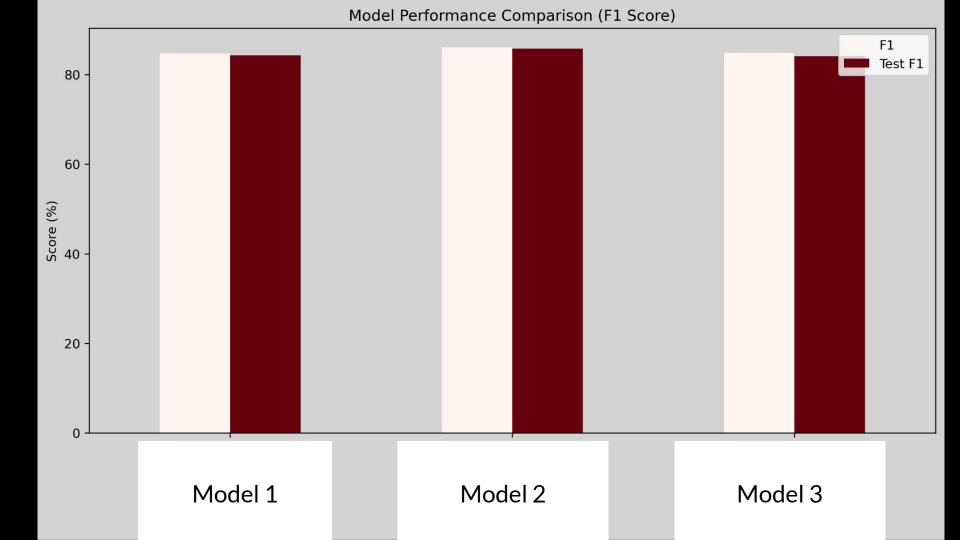
- Consolidated the Data
 - a. Turned target column into binary, disregarding Neutral reviews
 - 0 = Negative, 1 = Positive
- Narrowed dataset to the last two years (2023-2025)
 - a. 47,000 reviews total
- Factoring in Thumbs Up Count
- Model Experimentation
 - Testing different models to see which has the highest F1 score

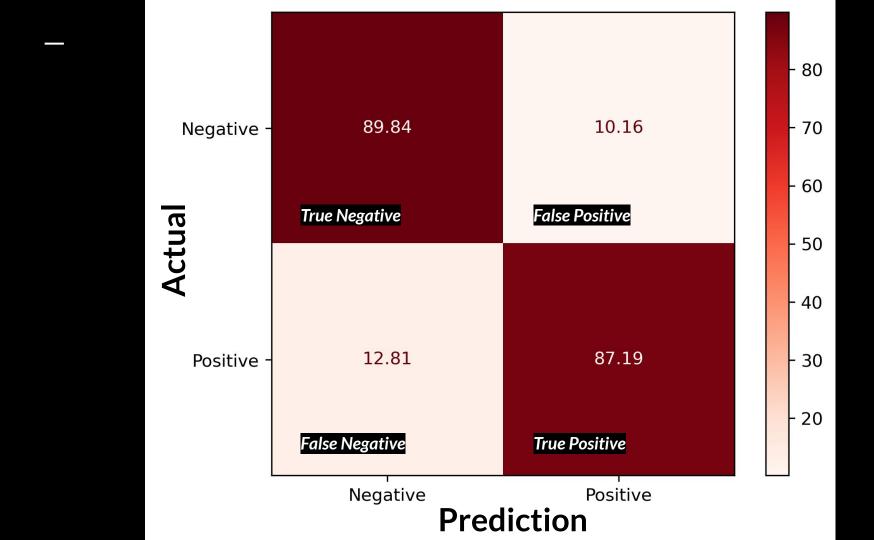
Data Modeling & Analysis

How successful were our models?

F1 Score

How many Positives did we mistakenly identify as Negatives? And vice versa.





What can the classified reviews tell us about maintaining and gaining subscribers?

Positive Themes

- Content Quality & Variety/Diversity
- User Experience
- Favorite Features

Negative Themes

- Pricing & Subscription Complaints
- App Performance Issues
- Regional Content Gaps

Conclusion

Conclusion

 Successfully built a model that can differentiate between Positive and Negative reviews

Surmised themes and trends across both Positive and Negative reviews

Conclusion

Limitations:

Foreign language reviews

Neutral reviews

Recommendations

Customer Retention & Acquisition

Recommendations Customer Retention

Improving
Pricing &
Subscription
Flexibility

Improving Communication

Enhancing
Performance &
Stability of the App

Recommendations Customer Acquisition

Expanding Regional Content

Promotional Campaign

- Variety, quality, and diversity of content
- Usability & technical superiority

Partner with regional and foreign language streaming platforms

Next Steps

Factor in Neutral reviews

Analyze foreign language reviews

Questions?

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Modeling

Sentiment Analysis

- a. Analyzing reviews
- b. Identifying relationship between terms/words and sentiment
- c. Factoring in # of Thumbs Ups