

FASHION STYLE



Predicting Comment Sentiment

For Women's Fashion Brands

Jillian Clark

Agenda













Understanding the Problem





Triage Comments to Appropriate Response Team



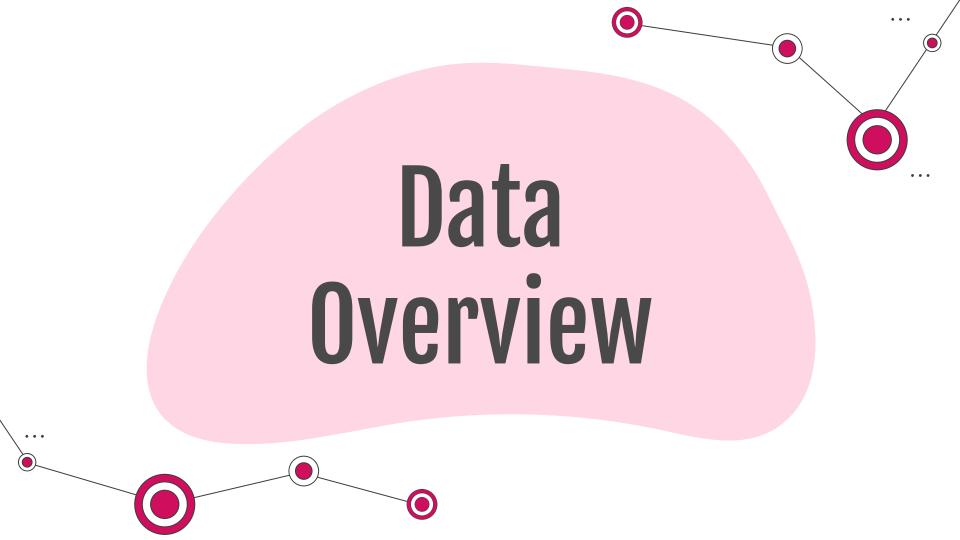
Protect Brand's Reputation



Improve Customer Loyalty



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Common Words in Reviews



23,486 Reviews

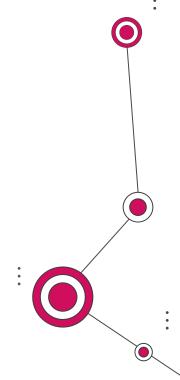
from a Women's E-Commerce Clothing brand

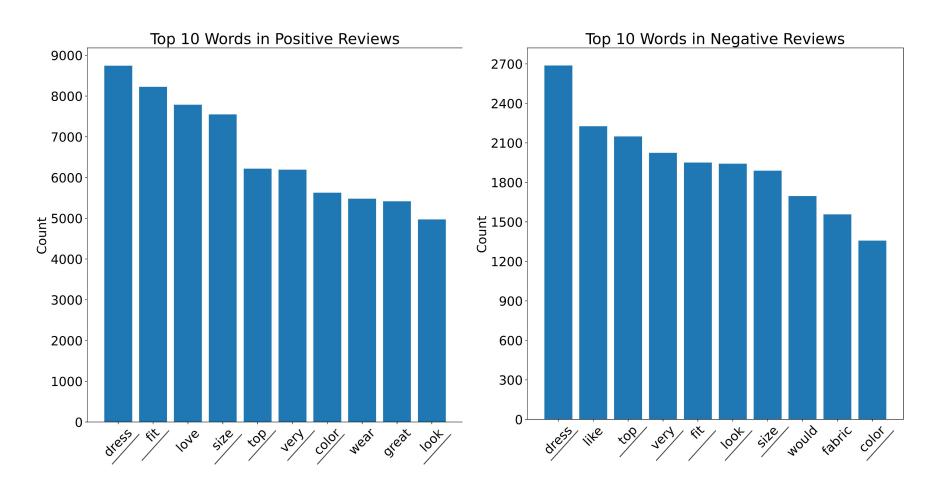
1,205 Clothing IDs

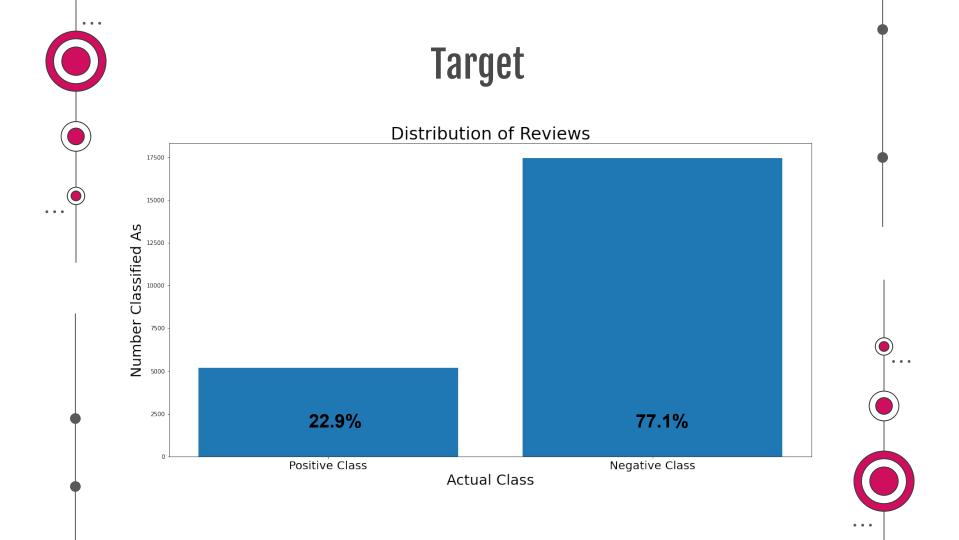
of unique products that were reviewed

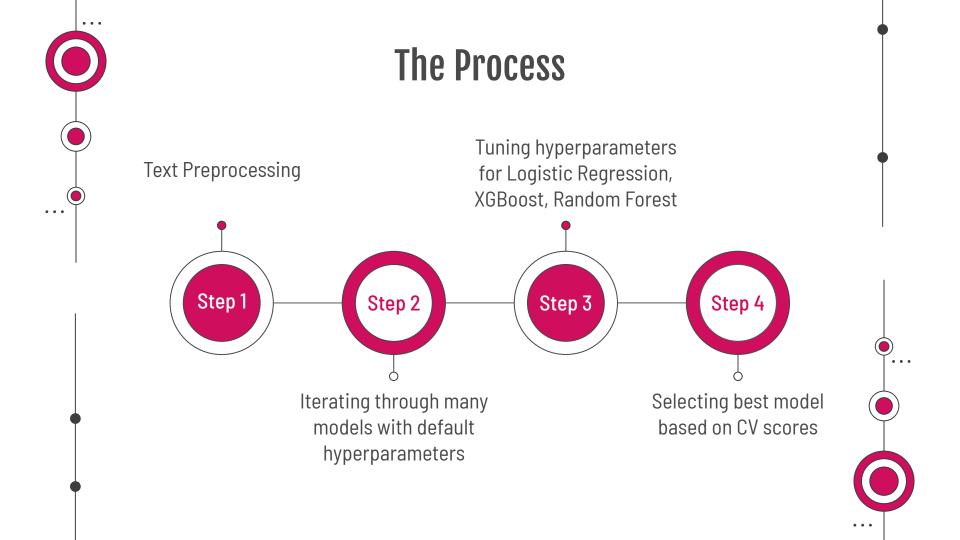
Rating Scale 1-5

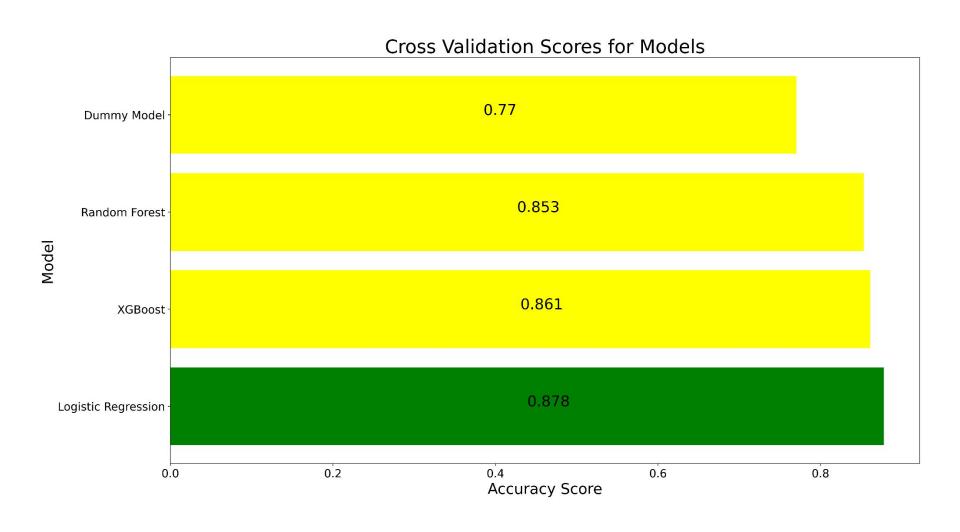


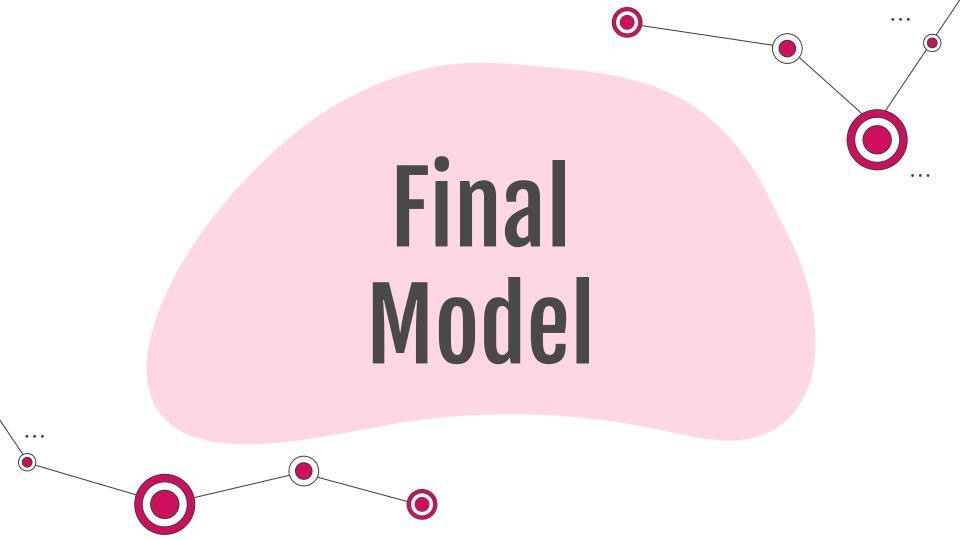




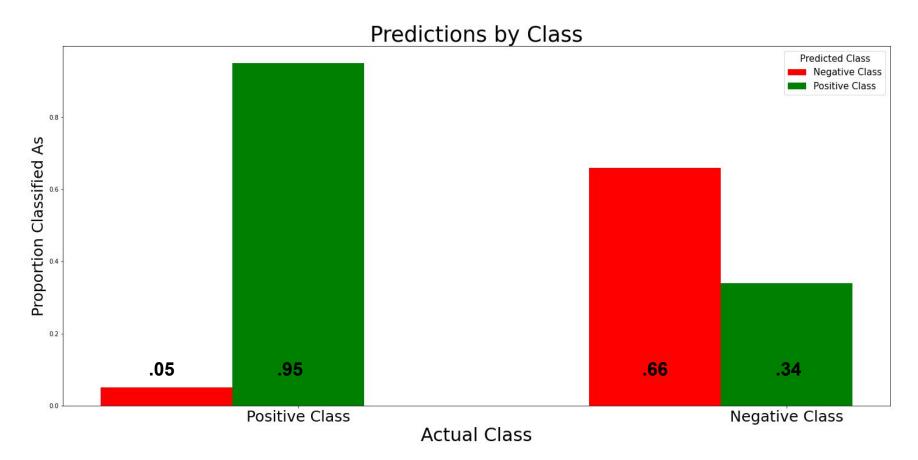






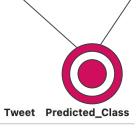


Final Logistic Regression Model



Classifying New Comments

Positive Tweet

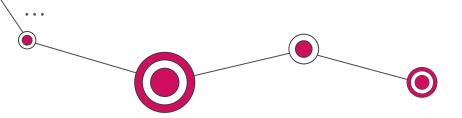


Queen B said it best with Dress is from @zara Heels @express Watch is @mvmtforher #grwmreel #fashionstyle #zaradress #pinkoutfit #goingoutoutfit #datenightoutfit https://t.co/t0klk50fyi

Negative Tweet

Disappointing service from @ZARA. \nOrdered a pair of trousers online and a pair of cargo pants showed up at my door ... Same barcode, so clearly issues at warehousing process. \nPlease sort ASAP. https://t.co/vMe4JIT5Hf

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Limitations and Next Steps

- Class imbalance
- User error with initial ratings
- Create dual classification system-filter out spam first
- Add in "Neutral" classification
- Create custom stopwords list
- Test with more platforms (TikTok comments, blogs, etc.)
- Upgrade and deploy app to perform Twitter API calls based on user inputted query terms







Conclusion

- Model is generalizable to any platform
- Triage comments quickly
- Capitalize on "free" marketing
- Protect brand reputation with responses
- Improve customer loyalty



Thanks!

Do you have any questions?

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