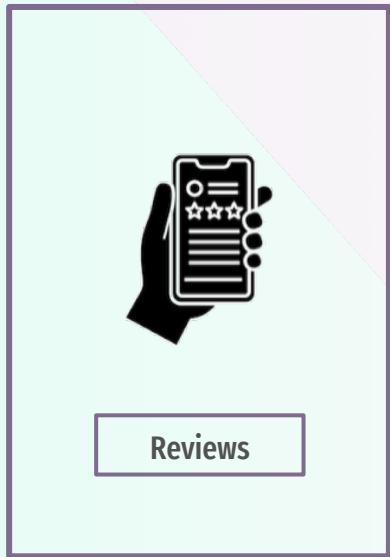


# CLOTHING REVIEW ANALYSIS

Breonna Moore



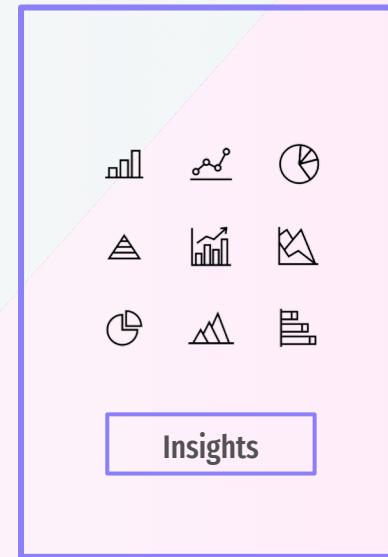
# OBJECTIVE



+

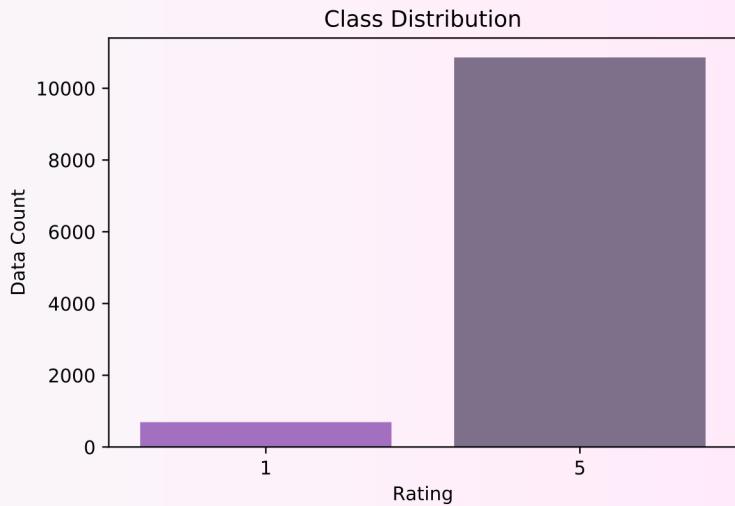


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# DATA

- Women's Clothing Data
- 23,549 Datapoints
- Imbalanced Classes



# MODELING RESULTS

- Logistic Regression,  
Multinomial Bayes
- SMOTE,  
Random  
Oversampling
- TF-IDF,  
Count Vectorization

Ranking	Validation Set Recall
1	0.95
5	0.95

# TOPIC MODELING RESULTS

- NMF,  
LSA
  - Count Vectorization,  
TF-IDF
  - Quality, Fit, Design,  
Flaws, Price



# CONCLUSION

Ranking	Test Set Recall
1	0.93
5	0.95

# FUTURE WORK

- Stop Words
- Web Application
- Clustering

# THANK YOU!

## Q & A



# APPENDIX : 40 TOPICS

```
nmf_cv:  
  
Topic 0  
poor quality, poor quality material, big disappointment, fabric poor quality, fabric poor  
  
Topic 1  
size small, big size, big size small, small petite, fit great  
  
Topic 2  
cold water, flat dry, wore washed, delicate cold, delicate cold water  
  
Topic 3  
bought pair, came light spots, light spots, came light, spots leg  
  
Topic 4  
usually wear, wear size, usually wear size, xs tops, size xs  
  
Topic 5  
wanted love, cut wide, odd fit, better hanger, love saw  
  
Topic 6  
looks cute, cute model, looks cute model, feet inches tall, feet inches  
  
Topic 7  
steel blue, shrinks shrinks, local store, dry clean, wash instructions  
  
Topic 8  
inner lining, read reviews, wish read, wish read reviews, lay flat  
  
Topic 9  
coat lambswool, lambswool acrylic, original version, coat lambswool acrylic, high price  
  
Topic 10  
looks old, looks great, great pictures, looks great pictures, reviewer said  
  
Topic 11  
washing cold water, washing cold, cold water, hand washing, hand washing cold  
  
Topic 12  
sale price, extra sale, extra sale price, worth extra, worth extra sale  
  
Topic 13  
high hopes, dry cleaned, looks better, fabric terrible, opened bag  
  
Topic 14  
way big, way big loved, big loved, great model, felt cheap  
  
Topic 15  
runs large, misses mark, floreat misses, floreat misses mark, try size  
  
Topic 16  
quality material, size maeve, poor fit, material extremely, wear tank
```

# APPENDIX: 40 TOPICS

Topic 17  
extra small, true size, small extra small, small extra, wear small

Topic 18  
washed cold, washed cold water, cold water, dry shrunk, hand washed

Topic 19  
beautiful way, fit looked, way large, beautiful way large, miss sized

Topic 20  
run small, runs small, read reviews, previous reviewers, reveal item defective

Topic 21  
size large, tight sleeves, large size, sleeves way, way tight

Topic 22  
usual size, small fit, disappointed loved, extra fabric, size small

Topic 23  
potato sack, bought sale, reviews thought, thought sure, reviews thought sure

Topic 24  
feels cheap, looks feels, looks feels cheap, opened package, package fabric

Topic 25  
xxs petite, look bad, way size, petite looked, saw hanging store

Topic 26  
fabric stiff, puffy paint, cute fabric, fabric special, rose gold glitter

Topic 27  
old sweatshirts, fit perfectly, leggings great, looks worn, great reviews

Topic 28  
fit perfectly, tried fit, high low, huge hung, waist huge

Topic 29  
fit right, right away, size fit, went sale, long time

Topic 30  
looks cheap, high rise, looked beautiful, fabric different, definite return

Topic 31  
look good, strawberry shortcake, makes look, quality price, save money

Topic 32  
bad quality, laundry yesterday, laundry yesterday came, fyi use, yesterday came

Topic 33  
fell love, disappointed initially, sadly disappointed, overall quality, good sure

Topic 34  
hd paris, arm holes, quality fabric, large arm, large arm holes

# APPENDIX: 40 TOPICS

Topic 35  
make work, sizes small, sizes small compared, small compared, blue color

Topic 36  
worth money, cheap looking, quality fabric, quality sale, design adorable

Topic 37  
great fabric, wear small, fabric bad, bad shape, size order

Topic 38  
high quality, shoulders looked, shoulders fit, wrong size, fit perfectly

Topic 39  
frayed apart, literally frayed apart, literally frayed, apart loved, wore times