What's there to a review?

Iris Borkovsky

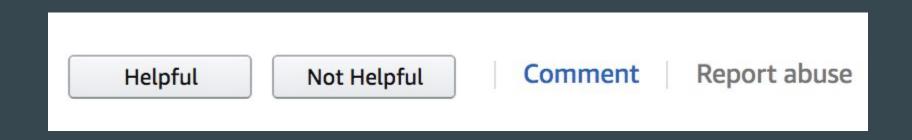
Action Plan

- Project scope
- Data summary
- Models
- Findings
- Appendix



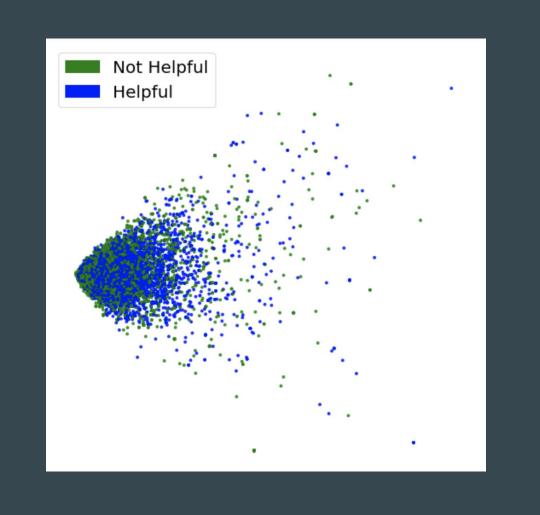
Project scope

- Can we predict if other users will find a particular review helpful?
- Topic modeling from reviews



Data

- Working data set of ~20k, from ~500k Amazon food reviews
- Focus on helpfulness numerator and denominator to craft a classifier

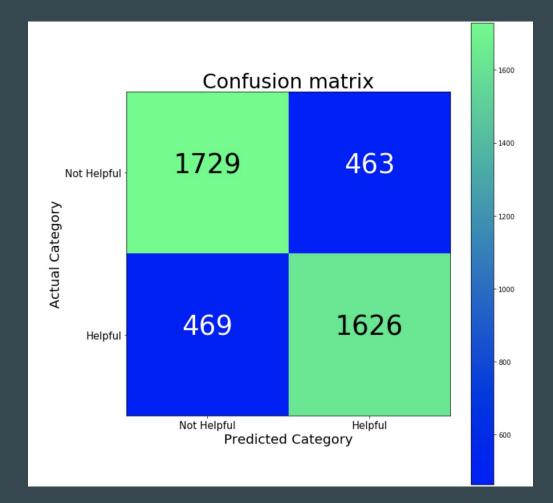


Models

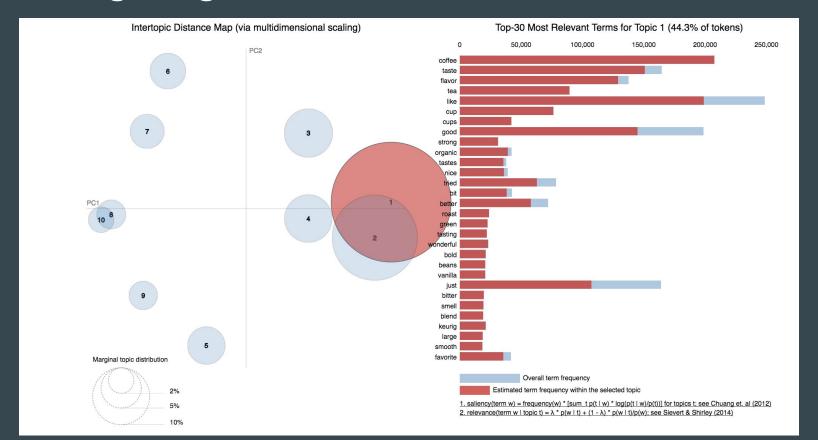
- Logistic Regression
- Latent Dirichlet Allocation
- K-means Clustering

Findings

RegressionAccuracy score: ~.78



Underlying categories in the data



Next steps

Semantic meaning of words (Word2Vec)

 Additional approaches to creating the original classifier (Helpful/ Not Helpful)

How intent relates to helpfulness

Thank you!

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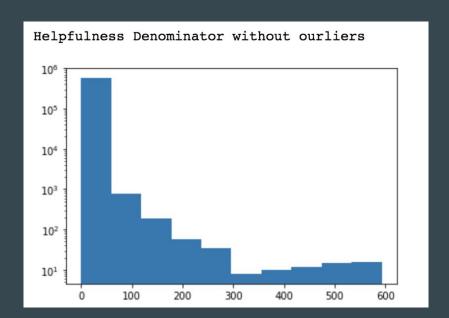
Iris Borkovsky

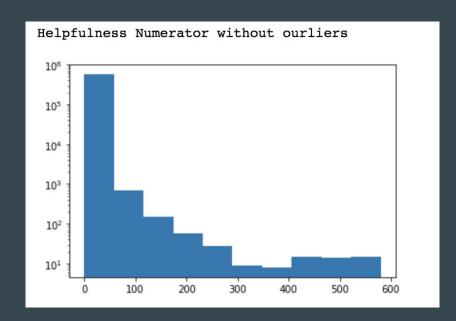
LinkedIn: https://www.linkedin.com/in/iris-borkovsky

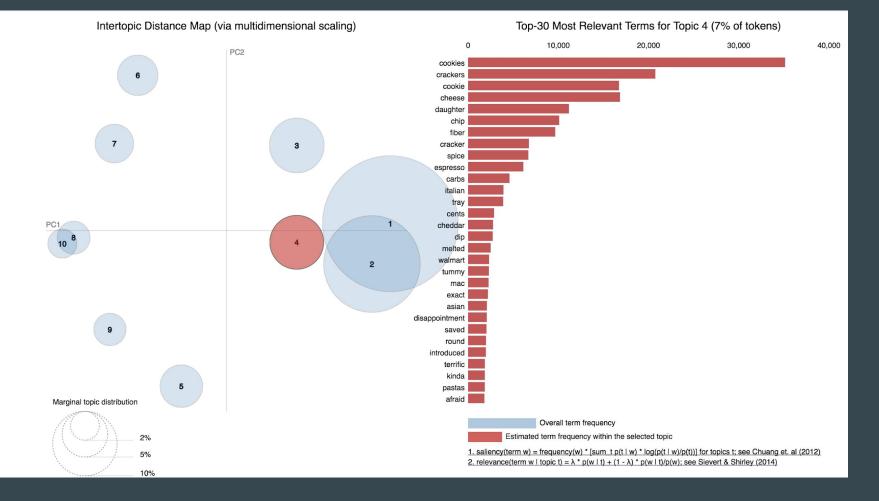
GitHub: https://github.com/borkovsky

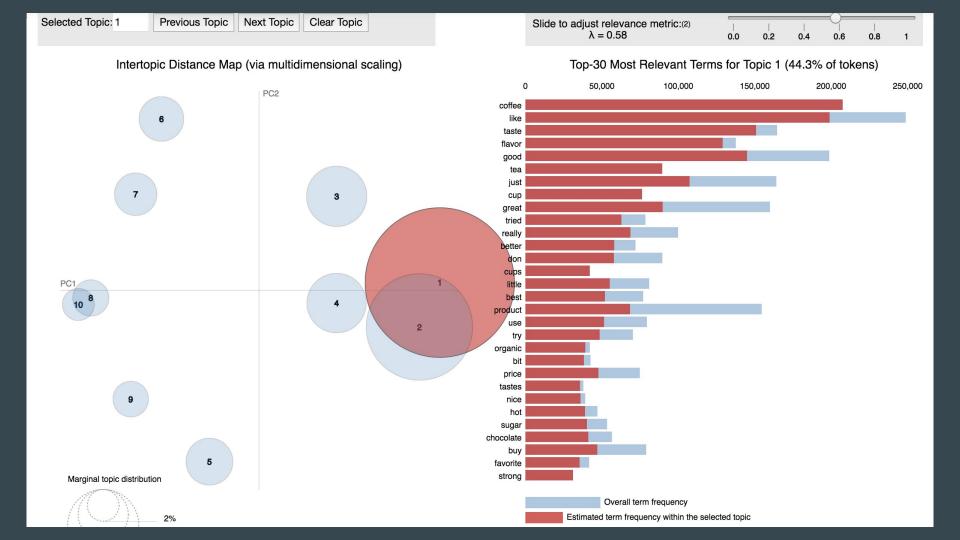
Blog: https://medium.com/@borkovsky

Appendix









- There are 3,175,298 words total
- Vocabulary: 49,311