Title CS224u final paper

Lara Thompson

Principle Data Scientist @ Salesforce lara.thompson@salesforce.com

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Abstract

Brief statement

1 Introduction

The consensus is that collaborative filtering will generally outperform content-based recommendation [1]. However, it is only applicable when usage data is available. Collaborative filtering suffers from the cold start problem: new items that have not been consumed before cannot be recommended. Additionally, items that are only of interest to a niche audience are more difficult to recommend because usage data is scarce

2 Prior Literature

This section can make extensive use of your lit review prose. (Arora et al., 2017)

3 Data

Likely to be very detailed if the datasets are new or unfamiliar to the community, or if familiar datasets are being used in new ways. Includes prior work on them, statistics, and a collection protocol.

4 Model

Flesh out your own approach, perhaps amplifying themes from the 'Prior lit' section.

5 Methods

The experimental approach, including descriptions of metrics, baseline models, etc. Details about hyperparameters, optimization choices, etc., are probably best given in appendices, unless they are central to the arguments.

Explicitly define the metrics, even the common ones (or at least reference them). Be clear about how the data is split for assessment.

6 Results

A no-nonsense report of what happened.

7 Analysis

Discussion of what the results mean, what they don't mean, where they can be improved, etc. These sections vary a lot depending on the nature of the paper. (For papers reporting on experiments with multiple datasets, it can be good to repeats Methods/Results/Analysis in separate (sub)sections for each dataset.)

8 Conclusion

Quickly summarize what the paper did, and then chart out possible future directions that anyone might pursue.

Known Project Limitations

For this section, imagine that your reader is a well-intentioned NLP practitioner who is seeking to make use of your data, models, or findings as part of a separate scholarly project, deployed system, or some other kind of real-world intervention. What should such a person know about your work? Especially important here are limitations and biases that might affect this person, their findings, their experiment participants, or the users of their product or service. The idea is that what you say here will be taken into consideration but this well-intentioned user, leading to better outcomes for everyone.

Authorship Statement

Explain how the individual authors contributed to the project. You are free to include whatever information you deem important to convey. For ideas and a model see http://blog.pnas.org/iforc.pdf (p. 12). This statement is required even for singly-authored papers, because we want to know whether your project is a collaboration with people outside of the class. Our rationale for this section is that we think this is an important aspect of scholarship in general. Only in extreme cases, and after discussion with the team, would we consider giving separate grades to team members based on this statement.

References

Sanjeev Arora, Yingyu Liang, and Tengyu Ma. 2017. A simple but tough-to-beat baseline for sentence embeddings. 5th International Conference on Learning Representations, ICLR 2017.

A Example Appendix

This is an appendix.