Peer Review 2
Comparison of Sentiment Analysis Approaches for Analyzing Short Texts

The purpose of this review is to highlight how well the author of "Comparison of Sentiment Analysis Approaches for Analyzing Short Texts" met each requirement within the IT489 syllabus in writing the project draft. Positive aspects of the paper will be mentioned as well as suggestions for improvement where applicable. This review will be broken down into the sections explained in the "guidelines for Peer review", which was made available on blackboard by Dr. Narock.

Writing

The overall project draft is well written and has a logical flow. In the sections pertaining to methodology (i.e. project plan and project details) details are well written and explained. However, there is room for improvement in the objective and client section of the draft. Specifically, in the objective section the second paragraph is a little awkward because of sentence structure. Below are some examples of what I am referring to.

Example 1 - "These data will then go through sentiment analysis and we can discover what kind of opinions, positive or negative, people have regarding each candidate."

Alternate version – This data set will go through sentiment analysis so we can discover what opinions (i.e. positive, negative, or neutral) people have regarding each candidate.

Example 2 - "The results and the accuracy of the sentiment analysis tools and methods is not expected to be as accurate as approval ratings from election polls, however, the main goal is to discover a correlation between the results of the analysis and results of elections polls."

Alternate version – The results and the accuracy of the sentiment analysis tools and methods is not expected to be as accurate as approval ratings from election polls. However, the main goal is to discover a correlation between the results of the analysis and results of election polls.

In reference to the Client section, the issue is that it describes what you are doing rather than what point of view you are trying to support or your thesis. The syllabus asks that if there is no external client for your project then "use this section to discuss what point of view, argument, or thesis you plan to convey to the reader." Although, you may not have an external client, as a reader it appears that the candidates themselves would be interested in the results of your work. Describing how candidates could benefit from using the data sets you collect based on their needs to be elected could strengthen your project idea.

References

Ten references are listed, which meets the requirement for number of sources in the project draft. Five out of the ten sources appear to be peer reviewed scholarly works. The majority of the sources referenced at the end of the draft are not cited in traditional in-text citations anywhere in the report. From a reader's perspective, it is difficult to correlate sources with content. There are two sources

with in-text citation in the Objective section (i.e. (ITU, 2015) and (Onfro, 2015)), which makes it inconsistent not to see the rest of the sources cited in the same way.

Tables and figures

The table listed in the Project Plan section is helpful in understanding the timeline for your project. Since the data is still being collected it is understandable that there are no line charts. You may already be planning on including line charts to show trends and general illustrations to represent the data you are collecting as you stated in the table "organize and Visualize Results." When you do begin working on the charts it would be beneficial to include a timeline on the X-axis and number of times an associated sentiment was recorded on the Y-axis along with overlays of other relevant details as you see fit (ex. approval ratings). Again, you may already be planning on doing these illustrations, but just in case I thought I would mention it.

Format

The format of the project draft is well executed and the title of each section matches those that were outlined in the syllabus. Aside from the comments made earlier in this review the content of each section is appropriate to its description. When writing the final version of your project draft you may want to include another section for your research results and title it something like "Research results & conclusions" mainly because it seems as through there will be a lot of information to present in this area.

Topic

The topic of the paper is well thought out and presented in an easy to understand format. Judging by the timeline table included within the project details section much of the work has been completed so it makes me as the reader confident you can complete the project within the given semester. One thing that could benefit your project is expanding upon how you will normalize the data set to ensure the most reasonable amount of accuracy possible in your results. With large data sets as you know the potential for a small error or inaccuracy to dramatically alter the results is multiplied. Overall, this is a strong topic for a Capstone project and its applications are readily apparent.

Length

The project draft meets the requirements of eight pages plus the cover and reference page. There are sections you should definitely add when you write your final version as mentioned in the format section of this review. The risk factors section should also be expanded to include the normalization of data or any other steps you plan to take to improve the accuracy of the information (please note that these sections are <u>not</u> missing from your draft they are just suggestions for adding to your final paper). In summation, the draft has covered each section and is a good length.

Intellectual Content

The paper shows a good understanding of the topic for the Capstone project. It is apparent that you have both taken classes and have experience with Databases and big data collection and analysis. It clearly states within the paper what pieces of information you are collecting for your project. To target a wider audience with less technical backgrounds you could include an explanation of the metadata that you are collecting and definitions for certain acronyms or terms (i.e. JSON – JavaScript Object notation or Metadata).

Conclusion

In closing this peer review, I would like to say that this project shows promising applications and shows effort on the author's part. The comments made within this review are meant to highlight areas that can expanded upon as well give the author ideas to further his or her project goals. I wish you the best of luck with your project.