

Rebuttal to BAHM's review of Product Opinions report by BAMK

Strong points (at least two)

1. Division of the problem into three smaller tasks and description of multiple solutions for each of the subprojects. The authors propose in total five well-designed and unique solutions.
2. In-depth method analysis. The authors spent a lot of time finding multiple state-of-the-art solutions and ways they can interact with each other.

Weak points (at least two)

1. Lack of clear description of the project's goals. During the presentation, you focused on supplying models that perform sentiment analysis. On the other hand, in the report, during the final phases of your work, you plan to create some datasets.

That is not clear still in fact due to some confusions related with receiving data set from external firm. We plan to follow up about that with the professor and the project's final outcome will depend on that.

2. Although the authors found multiple SOTA solutions, the text lack formal literature review.

This is true and will be added to the final report.

3. The step between using sentiment analysis tools and creating a dataset is not clearly defined. It seems that the authors want to create a dataset in Polish based on the results of the model trained in English. Moreover, they do not mention how they will tackle translation or where the training data for the Polish language will come from.

For now we consider both options – using tools trained to analyze polish as well as using some kind of translators.

Questions:

1. During your research, did you encounter similar works? If so, how will your approach differ?

To some extent yes and an example of that is "Aspect-based sentiment analysis of reviews" by Izabela Telejko where she utilized ChatGPT for aspect-based sentiment analysis. Our approach will be different to hers mostly because we are working on a few flows combining various SOTA solutions that in the final step will be compared with each other while she examined just one approach. Additional difference is also the choice of the datasets.

2. What is the planned data source for the Polish dataset? You mention two datasets, but it is not clearly stated which will be used later.

The Data source for the Polish dataset is going to be a data from external firm, but we haven't gotten the access to it yet.

3. What translation tools/services do you plan to use? You do not mention any, yet such information may be crucial in terms of the quality of translations.

We haven't done much research on this yet and the choice will probably depend on how the form of the external firm dataset.

4. How will the labels look like in the Polish dataset? Where will they come from?

The dataset from the external firm will unfortunately come without any labels – our goal is to create them. Depending on of the approach we'll choose (using tools trained to analyze polish or using translators), they will be created by performing the aspect-based analysis on the dataset. Unfortunately, it means that we won't have a way of quantitatively assess our solution.

5. During the presentation, you mentioned analyzing “sentiment towards different mentioned product attributes”. What does it mean?

We are going to analyze reviews, so the product's attributes will be just aspects mentioned in the text related to the given product.

Suggestions:

You mention that one of the main problems in the project is that there are no end-to-end SOTA solutions, yet you described one approach that uses only one tool - ChatGPT.

In the report we mention that “the state-of-the-art world does not provide us with many high-performance tools that can be easily used in aspect-based sentiment analysis” but it doesn't imply that there are no such solutions. If such a problem was articulated during the presentation it must have been an oversight.

You can compare the final results obtained from different translation tools.

Thanks for the suggestion!