Assignment 1 - CT5120

Instructions:

- Answer all the questions and upload your submission as a PDF file on Blackboard with the filename "StudentID_Lastname.pdf" before 23:59 on October 14, 2022.
- All questions carry equal marks and the assignment is worth 25% of the final grade.
- This is an individual assignment, you must not work with other students to complete this assessment.
- Please limit your answers maximum upto 50 to 60 words.

The goal of this assignment is to gain familiarity with suggestion mining and do a short literature review on this topic. Based on your understanding of the lecture material and your reading of the research papers listed below, answer the following questions:

1. Define suggestion mining in your own words.
2. Explain a use case where suggestion mining could be useful.
3. Give any two challenges involved in the suggestion classification task with short explanation.
4. Explain implicit and explicit suggestions in your own words along with an example for each.
5. Is the following sentence a suggestion: "*I would not travel to the USA during the pandemic?"* Why or why not?
6. Give an example where more context for a sentence could possibly turn a non-suggestion into a suggestion?
7. For one crowdsourcing platform, state the advantages and disadvantages of such a platform.
8. How is inter-annotator agreement used for the suggestion mining task?
9. How will you evaluate a text classification model on a benchmark suggestion classification dataset?
10. Suggest one other text classification task similar to suggestion mining. Does it need an annotated (supervised) dataset?

Key Papers:

1. Negi, S., De Rijke, M. and Buitelaar, P. (2018). Open domain suggestion mining: Problem definition and datasets. arXiv preprint arXiv:1806.02179. Available at: [1806.02179] Open Domain Suggestion Mining: Problem Definition and Datasets.

2. Brun, C. and Hagège, C. (2013). Suggestion Mining: Detecting Suggestions for Improvement in Users' Comments. Research in Computing Science, 70(1), pp.199–209. Available at: https://doi.org/10.13053/rcs-70-1-15

Supplementary Reading:

1. Keshav, S., (2007). How to read a paper. ACM SIGCOMM Computer Communication Review, 37(3), pp.83-84. Available at: http://ccr.sigcomm.org/online/files/p83-keshavA.pdf

2. Negi, S. and Buitelaar, P. (2015). Towards the extraction of customer-to-customer suggestions from reviews. Proceedings of the 2015 Conference on Empirical

Methods in Natural Language Processing, Association for Computational Linguistics, Lisbon, Portugal, pp.2159–2167. Available at: https://aclanthology.org/D15-1258.