

Assessment of the project report

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We have assessed your report for three aspects: problem, method, and conclusions. For each aspect, we have assigned a component grade from the scale A, C, E (all passing grades) and F (fail). To pass, you must have a passing grade on each of the aspects. For component grade E, your report must meet all criteria in the descriptor for E; for A, it must also meet at least two criteria in the descriptor for A. If your report meets all criteria in the descriptor for E but only one of the criteria in the descriptor for A, the corresponding component grade is C. Criteria met by your report are **highlighted**. Your final grade is computed as follows:

732A92 Your final grade is your lowest component grade, or the next highest ECTS grade in case two of your component grades are higher than the lowest component grade. (Example: If your component grades are E, C, E, your final grade is E; if they are C, E, C, your final grade is D.)

TDDE16 As for 732A92, but the final ECTS grade is converted into a numerical grade on the scale 3, 4, 5. In this context, A–B correspond to 5; C corresponds to 4, and D–E correspond to 3. (Example: If your component grades are C, E, C, your final grade is 3; if they are A, C, A, your final grade is 5.)

Aspect 1: Problem

Is it clear what was done in this project, why it was done, and how it was done? Does the project go beyond what has been covered in the course? Does the project have enough substance, or would there have been room for more experiments or analysis?

- F The report does not contain a clear problem statement. The project is essentially a repetition of one of the lab assignments. For a project with this timeframe, I (the Assessor) would have expected significantly more experiments or analysis.
- E The problem is clearly stated. The project goes significantly beyond the lab assignments, e.g. by using a method not covered there (and explaining it in the report). The project represents an appropriate amount of work.
- A The problem is well-motivated and placed in a broader scientific or societal context (including references). There are several creative elements. The project contains significantly more experiments and analysis than expected.

Specific comments by the Assessor: *The project, in theory, has enough substance to get a pass grade, however, there are some flaws in practice which make it difficult. I will elaborate on them in the next sections.*

Aspect 2: Method

Are the methods applied in the project suitable to solve the stated problem? Are the experimental results analysed with appropriate evaluation methods? Are the findings from these analyses correctly interpreted?

- F The methods applied in the project are insufficient to solve the stated problem. The work should have been evaluated differently. The findings from the analyses of the experimental results are misinterpreted or overinterpreted.
- E The methods applied in the project are sufficient to solve the stated problem. The experimental results are analysed with appropriate evaluation methods. The findings from the analyses are interpreted correctly.
- A The technical approach is well-suited for the stated problem. The experimental results are analysed in detail (e.g., ablation studies) or from different perspectives. The findings from the analyses are compared with related work.

Specific comments by the Assessor: 1. Some of the stuff done here are not supported by any reason as to why they have done so. E.g., removing emojis for a sentiment analysis task is neither common-sense, nor supported by a comparison in the results, or a reference where someone else has done so. While it might be the case that such preprocessing would help with the overall performance, it is not obvious, hence requires justification. 2. While there are all sorts of nice and informative plots and statistics on the original dataset, the information is not presented on the balanced dataset, which is the data they work with in this project. Moreover, the word clouds are not readable. Some information and plots are also repeated with small changes, and therefore are superfluous. 3. The results from different methods are presented in different ways using different, and not directly comparable, metrics. 4. The project definition states that the purpose is to classify Twitter and Reddit comments, but the models are apparently only trained and tested on Google Play Store's data. 5. The analysis of the results is limited to repeating the numbers and information from the tables and plots in text. There is no reflection on the results, error analysis, or ablation studies.

Aspect 3: Conclusions

Are the conclusions of the work clearly presented and discussed? Does the report show awareness of the limitations of the work? Does it show awareness and understanding of related work documented in external sources (e.g., research articles)?

- F It is not clear what conclusions the author draws from this work. There is no discussion of the limitations of the work. There is no account of how the work done in the project compares to related work.
- E The conclusions are clearly presented and convincingly supported. The report shows awareness of the limitations of the work. The relation between the project and the work documented in the external sources is clear.
- A The report contains a detailed discussion of the limitations of the project. The report features a precise and enlightening comparison with related work. The majority of the external sources are peer-reviewed research articles.

Specific comments by the Assessor: No further comments

Component grades: 1 2 3 Grade:

Linköping, 2022-04-08

Marco Kuhlmann, Examiner

Assessor: Ehsan Doostmohammadi