Gazi University Engineering Faculty Computer Engineering Department

2022—2023 Fall Term

Data Mining Course Term Project

Each student must select a Term Paper Dataset until December 5, 2022 17:00.

- Dataset must be select from UCI Machine Learning Repository and default task of dataset must be classification. (https://archive.ics.uci.edu/ml/datasets.php)

- Another student cannot choose the dataset chosen by a student. Therefore, you should choose four more alternative dataset and send these dataset via email.
- If two students choose the same dataset, the dataset will be assigned to the student who chose first. In such a case, dataset will be assign from alternatively selected datasets.
- If the student will has not chosen a dataset, the dataset will be assigned automatically.

- You should test selected dataset with different classification algorithm. You must select minimum 3 classification algorithm and compare results. You must evaluate the performance of your selected dataset and algorithms via Accuracy, Precision, Recall, and F1 Score metrics.
- The final report will be approximately 10 pages.
- You must use the paper template from the IEEE manuscript template (https://www.ieee.org/conferences/publishing/templates.html).
- Paper will provide a detailed analysis of the topic that will be both academically rigorous and managerially relevant.
- It will be graded on the basis of thoroughness, creativity, and relevance.
- *Plagiarism will result in a grade of zero.*
- The general outline of your paper should be like the descriptions on the next page.

• The deadline for submission of the assignment is December 29, 2022 17:00.

Term Paper General Outline

1. Abstract
   a. Summary of your project
      i. Reasons for undertaking the work
      ii. Methods used
      iii. Findings and conclusion
   b. No longer than one page (250 words)

2. Introduction
   a. Explain the problem
   b. Outline logic of the paper
   c. Provide general conclusions

3. Purpose for paper
   a. Why is this paper important to the discipline

4. Literature Review
   a. What theoretical perceptive and concepts were used in development of paper
   b. Analysis of past work and how they shed light on issue or problem.

5. Research Question(s)
   a. The key question this paper is going to address

6. Methodology
   a. If appropriate, describe the research methods which will be used to complete the paper

7. Findings
   a. Describe the findings
   b. Support them with evidence from literature or research
   c. Compare findings with theories form Literature Review section

8. Conclusions and Recommendations
   a. What conclusions can be drawn
   b. Relate to business, governments and non-governmental organizations as appropriate.