CSCI323: Group Project

School of Computing and Information Technology
University of Wollongong

Session 4 2025

1. Introduction

The goal of this assignment is to help students deepen understanding on key artificial intelligence concepts and techniques taught in this subject and get familiar with their latest development. Several topics are provided in another document for selection. **A topic can only be selected by no more than three groups.**

The following points give you an idea of what is expected.

- Form a group of 4-6 students (grouping can be done on Moodle).
- Search for resources from UOW library and the Internet on the topic your group has chosen.
- Quickly read about the topic to give you an idea of what it is about.
- Work together to make a project plan and have regular meetings to monitor the progress.

2. Structure of the report (60 marks in total)

The report your group will submit shall not be more than **8 pages** in length (excluding references and appendix). It must be properly referenced (i.e. appropriate in-text referencing/citation). All the resources you have used must be acknowledged and referenced in your report.

Use the following headings in your report.

1. Title - 5 marks

   Choose an appropriate and informative title for your report. This is important.

2. Introduction - 10 marks

   You should describe the topic and the kind of problem being addressed. You should also write about the possible application areas.

3. Background theory - 10 marks

You are expected to write about the theoretical foundation of the topic. Investigate some theoretical development and explain how this fits the designs and solutions taken by your group.

4. Solutions, evaluation, and discussions - 25 marks

   In this section you will describe the designs and solutions of your project; how you evaluate them via theoretical and/or experimental study; and the evaluation result analysis.

5. Conclusion - 5 marks

   You must write a conclusion based on what your group has studied, observed, encountered, and gained. This shall not merely repeat what has already been stated in previous sections. Conduct the reflection exercise as a group.

6. Acknowledge - You must clearly present what each of you in the group has done and your contribution in percentage for the whole assignment. This will be used as a reference for the marking.

7. References - 5 marks

   Use proper formats for references and provide appropriate in-text referencing/citation.

Note: Your report should demonstrate the mathematical reasoning behind why the model performs well under certain circumstances and clearly define what marginal cases mean for the selected model. You also need to connect your discussion to the concepts covered in the lecture. Otherwise, your report may be subject to mark deductions.

3 What needs to be submitted?

Please follow the guidance in the Moodle site. Only one member (say, the group leader) of a group needs to submit the report.Upload the report via Moodle before the indicated deadline.

4 Group presentation (40 marks in total)

Prepare a 15-minute (12 minutes + 3 minutes for Q&A) presentation based on your report. The presentation time will be announced on Moodle. The mark distribution is

1. Presentation quality - 20 marks

   Factors to be considered include clarity, fluency, logic, time control, etc.

2. Q&A - 20 marks

Note: The tutor may ask you questions about the algorithm's details to assess your understanding. Marks may be deducted if you are unable to answer.

5 Plagiarism & Note on GenAI use

A plagiarized assignment will receive a zero mark and be penalized according to the university rules. Plagiarism detection software might be used for this assignment.

Any use of generative AI tools must be clearly stated in the report. Failure to do so may result in penalties for misuse. For example, directly copying and pasting AI-generated content is not permitted.

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