

**Project (Code and Final Report) Rubric**

CP322-Machine Learning

Department of Physics and Computer Science, Faculty of Science, Waterloo Campus  
Fall-2022

**Project Submission:**

- The due date is project submission is Nov 28, 2022.
- Submit the project on the project drop box section of MyLearning Space.
- One group member is required to submit the project.

For project submission, each group are required to submit two files

- ✓ A notebook file containing the code of the project (100 points-10% of Final Grade)
- ✓ A formal report (.pdf ) file (100 Points-10% of Final Grade)

**Project Code:**

Students should provide the end-to-end implementation of their ML project by using Google Colab notebook. Each code cell result should be shown in the notebook, and it is required to add appropriate details and annotations about the code and the techniques before each cell code as the markdown cell. The notebook must contain the following sections:

Data preprocessing, Visualization of preprocessing, Data Quality Report	30
Model selection	20
Model evaluation	30
Model performance and results	20
Total (points)	100

**Project Report:**

Format: pdf with no more than 5 pages including figures and appendix,

Font: Times New Roman and font size: 12

The final report should have the following requirements:

Abstract: Summary of the problem statement, solutions and the result	15
Description of Applied Problem	20
Description of Available Data	20
Analysis techniques: Model selection and the evaluation technique for testing the model and discussion of the results	30
Visualization Techniques: Visualization of result such as confusion matrix, Plotting of the loss function, accuracy score etc.	10
References including papers and books	5
Total (points)	100