

## CMP3751M Machine Learning A02 2023-2024

Learning Outcome	Criterion	Pass	2:2	2:1	1
[LO2] Using a non-trivial dataset, plan, execute and evaluate significant experimental investigations using multiple machine learning strategies.	Implementation (55%)	<p>The dataset has been successfully loaded, and a basic classification model trained and evaluated using the data.</p> <p>Coding style is readable. All external sources are appropriately referenced.</p>	<p>The dataset has been loaded and a basic classification model successfully trained using the data. Some model selection has been performed (choosing between different models, selecting model parameters).</p> <p>Clear coding style with comments. All external sources are clearly documented and appropriately referenced.</p>	<p>After loading the dataset, a good model has been fit to the data, choosing between different models, and correctly selecting model parameters by relying on appropriate metrics.</p> <p>Clear and well-documented code. All external sources are clearly documented and appropriately referenced, with differences clearly marked.</p>	<p>The dataset has been fully analysed according to the instructions in the notebook, successfully completing all parts of the assessment with minor or no problems. The best parameters have been selected for multiple models, and different ensemble combinations of the models were correctly evaluated. The best model was chosen and discussed.</p> <p>The code is efficient, well-structured and well-commented. All external sources are clearly documented and appropriately referenced, with differences clearly marked and briefly explained.</p>
	Discussion (45%)	<p>The discussion is fully evidenced by the provided implementation.</p> <p>Some discussion is provided, but it is incomplete or only partially addresses all the required aspects. External sources supporting the discussion are appropriately referenced.</p>	<p>The discussion is fully evidenced by the provided implementation.</p> <p>A justification of choices and a discussion of the model results is provided, and is at least partially correct and supported by appropriately referenced external sources.</p>	<p>The discussion is fully evidenced by the provided implementation.</p> <p>Choices made regarding the evaluation strategy, and selected models, are well justified and supported by evidence provided through the implementation, and supported by good external sources which are appropriately referenced.</p>	<p>The discussion is fully evidenced by the provided implementation.</p> <p>All the choices made in evaluation and model selection are well justified, and supported by evidence provided through implementation; all explanations are supported by well-fitting sources from the literature.</p>
Weighting is 60% of the module					