UNIVERSITY OF CALGARY

Assignment 02: Garbage Classification Model - Programming Assignment

The goal of this assignment is for you/your team to develop a classification model **that uses PyTorch** to solve the problem from assignment 01 (i.e., garbage classification) using both the image and textual information. The data will be shared with you and will already be split into train, validation and test sets.

The deliverable for this assignment is a GitHub repository created by the team with all the code to solve the problem (training, pre-processing, etc.). The repository should have a **jupyter-notebook** file with the predictions of the model (metrics, figures of the incorrect classifications, etc.).

The assignment should be delivered at the deadline established in class using the appropriate D2L dropbox folder. The tutorial will be given a score between 0 and 100 and weighted accordingly to obtain the final grade.

Rubric

Category	Exceeds Expectations (85-100)	Meets Expectations (75-84)	Needs Improvement (65-74)	Below Expectations (0-64)
Code Execution (25%)	The program works as expected with no error messages and no warnings. The processing time is appropriate for the problem complexity.	The program works as expected with no error messages, but a few warnings. The processing times is a little high for the problem complexity;	The program has a few errors and maybe a few warnings, but the errors are easy to fix. The processing times are very high for the problem complexity.	The program has multiple error messages, which are not easy to fix. The processing times are extremely high for the problem complexity.
Clarity of the code (25%)	The code is clear and has pertinent comments	The code is somewhat clear and has some comments	Most of the code is not clear and has very few comments	The code is unclear and has no comments.

Proper usage of the techniques seen in class (50%)	- Uses appropriate methods for the problem at hand - Uses a sound experimental setup - The results are appropriate for the difficulty pf the problem	- Uses methods that could be appropriate for the problem at hand -Uses an experimental setup that seems correct - The results are slightly below what is expected for this problem	Uses methods that do not seem to be appropriate for the problem at hand -Uses an experimental setup that is not the most appropriate to assess the methods - The results are significantly below what is expected for this problem	- Uses methods that are not appropriate for the problem at hand -Uses an experimental setup that is inconsistent - The results are worse than chance