Data Collection and Preprocessing Phase

Date	1 December 2024
Team ID	739673
Project Title	Garbage Classification Using Deep Learning
Maximum Marks	2 Marks

Data Quality Report Template

The Data Quality Report Template will summarize data quality issues from the selected source, including severity levels and resolution plans. It will aid in systematically identifying and rectifying data discrepancies.

Data Source	Data Quality Issue	Severity	Resolution Plan
Dataset	Resizing	High	Use the target_size parameter in the flow_from_directory method to resize all images to a consistent size (e.g., (128, 128)).
Dataset	Training the dataset	Moderate	Use techniques like flipping, rotation, scaling, and cropping to artificially expand the dataset and address class imbalance.
Dataset	Data augmentation overfitting	Low	Dropout, Early Stopping

Dataset	Inadequate Preprocessing	Low	This is handled with the rescale=1./255 parameter in the ImageDataGenerator.