Data Collection and Preprocessing Phase

Date	20 October 2024
Team ID	739734
Project Title	Ai-powered vehicle damage assessment and cost estimation for insurance claims
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
Comments Dataset	Imbalanced classes (toxic vs. non-toxic)	high	Use techniques like SMOTE (Synthetic Minority Over-sampling Technique) or re-sampling to balance classes.
Comments Dataset	Presence of null or missing comments	moderate	Remove rows with null entries or replace them using context-based data imputation.
Comments Dataset	Presence of offensive keywords in non-toxic class	high	Manual relabeling or use a semi-supervised learning approach to refine the labels.

Comments Dataset	High variance in comment length	low	Normalize lengths by truncating excessively long comments and padding short ones.
Comments Dataset	Mismatch in encoding or format	low	Convert all text data into UTF-8 encoding and standardize format during preprocessing.