

## Data Collection and Preprocessing Phase

Date	19 July 2024
Team ID	SWTID1720110092
Project Title	Beneath the Waves: Unraveling Coral Mysteries Through 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	Image Quality Variation	Moderate	Implement data augmentation techniques (e.g., rotation, shifting, zooming) to increase dataset diversity and model robustness.
Dataset	Class Imbalance	Moderate	Utilize techniques such as oversampling minority classes or adjusting class weights during model training to address imbalance issues.
Dataset	Inconsistent Metadata	Low	Develop scripts to standardize and validate metadata fields across the dataset to ensure consistency in data representation.
Dataset	Labeling Errors	High	Conduct thorough manual review and correction of labels, and

			implement automated validation checks to minimize future errors.
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