

## Data Collection and Preprocessing Phase

Date	17 March 2025
Team ID	LTVIP2025TMID25168
Project Title	Cosmetic Insights
Maximum Marks	3 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
Customer Reviews Dataset	Missing values in product reviews (e.g., incomplete feedback)	Moderate	Use imputation techniques such as mode-based filling or predictive modeling to estimate missing values.
Sales Transactions Dataset	Duplicate records of sales transactions	High	Apply deduplication techniques using unique transaction IDs and timestamps.
Social Media Data	Presence of irrelevant or spam data	Moderate	Implement NLP-based filtering to remove spam and irrelevant content.
Product Attributes Dataset	Inconsistent product category names	High	Standardize category names using a predefined taxonomy and regex matching.

Customer Demographic s Dataset	Outdated or incorrect customer details	Low	Perform data validation checks and use third-party enrichment services to update records.
<b>Data Source</b>	<b>Data Quality Issue</b>	<b>Severity</b>	<b>Resolution Plan</b>