



Data Collection and Preprocessing Phase

Date	30 July 2025	
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Project Title	Restaurant Recommendation System	
Maximum Marks	2 Marks	

Data Quality Report Template

Data Source	Data Quality Issue	Severity	Resolution Plan
Dataset (Restaurant reviews and metadata)	Missing values in fields like restaurant name, location, or ratings	Moderate	Perform data imputation using techniques like mean/mode for numeric values and most frequent value for categorical data. Alternatively, remove rows with critical missing fields.

Dataset (User reviews)	Duplicate user review entries	Low	Remove duplicate recording using drop_duplicates() in pandas or SQL DISTINCT
Dataset (Timesta mp field)	Inconsistent or incorrect timestamp format	Moderate	queries. Use datetime parsing libraries (e.g., pandas.to_datet ime) to standardize all date/time fields.



Dataset (Restaura nt metadata)	Inconsistent formats (e.g., location written in different ways like "NY", "New York")	Moderate	Apply data standardization techniques, using string functions or regex patterns to unify the format.
Dataset (User preferenc es)	Sparse data or insufficient user history	High	Implement fallback strategies such as popularity-based or content-based recommendations when user data is lacking.