



## **Data Collection and Preprocessing Phase**

Date	20 June 2025	
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Project Title	Restaurant Recommendation System	
Maximum Marks	2 Marks	

## **Data Quality Report Template**

Data Quality Issue	Severity	Resolution Plan
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.
Duplicate user review entries  Inconsistent or incorrect timestamp format	Low Moderate	Remove duplicate records using drop_duplicates() in pandas or SQL DISTINCT queries. Use datetime parsing libraries (e.g., pandas.to_datet ime) to standardize all
	Missing values in fields like restaurant name, location, or ratings  Duplicate user review entries  Inconsistent or incorrect	Missing values in fields like restaurant name, location, or ratings  Duplicate user review entries  Low  Inconsistent or incorrect  Moderate





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.