



## ${\bf Data Collection and Preprocessing Phase}$

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Name	Pooja Rajendra Chougule
ProjectTitle	Restaurant Recommendation System
MaximumMarks	2 Marks

## DataQualityReport Template

Data Source	DataQualityIssue	Severity	ResolutionPlan
Dataset (Restaurant reviewsand metadata)	Missing values in fields like restaurantname,location,or ratings	Moderate	Perform data imputation using techniques like mean/mode for numeric values and most frequentvaluefor categorical data. Alternatively, removerowswith critical missing fields.
Dataset (User reviews)	Duplicateuserreviewentries	Low	Removeduplicate records using drop_duplicates() in pandas or SQL DISTINCTqueries. Use datetime parsing libraries
Dataset (Timesta mpfield)	Inconsistentorincorrect timestamp format	Moderate	(e.g., pandas.to_datet ime) to standardize all date/time fields.





Dataset (Restaura nt metadata )	Inconsistent formats (e.g., locationwrittenindifferentways like "NY", "New York")	Moderate	Apply data standardization techniques, using stringfunctionsor regex patterns to unify the format.
Dataset (User preferenc es)	Sparsedataorinsufficientuser history	High	Implementfallback strategies such as popularity-basedor content-based recommendations when user data is lacking.