

## Data Collection and Preprocessing Phase

Date	28th June 2025
Team ID	LTVIP2025TMID41511
Project Title	Revolutionizing Liver Care: Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques.
Maximum Marks	2 Marks

### Data Quality Report Template

This report summarizes the data quality issues identified in the liver cirrhosis dataset, along with their severity levels and proposed resolution plans. The goal is to systematically identify and rectify discrepancies to ensure high-quality data for accurate predictions.

Data Source	Data Quality Issue	Severity	Resolution Plan
Kaggle Dataset	<div>Missing values in all the columns of the dataset. (42 columns)</div> <div><pre>df.isnull().sum() ✓ 0.0s S.NO      0 Age        0 Gender     0 Place(location where the patient lives)  134 Duration of alcohol consumption(years)    0 Quantity of alcohol consumption (quarters/day)  0 Type of alcohol consumed                  0 Hepatitis B infection                     0 Hepatitis C infection                     0 Diabetes Result                           0 Blood pressure (mmhg)                     0 Obesity                                    0 Family history of cirrhosis/ hereditary   0 TCH   359 TG   359 LDL  359 HDL  368 Hemoglobin (g/dl)                           0 PCV (%)                                    30 RBC (million cells/microliter)              552 MCV (femtoliters/cell)                      9 MCH (picograms/cell)                        658 MCHC (grams/deciliter)                     672 Total count                                 10 Polymorphs (%)                             0 ... SGOT/AST (u/L)                             0 SGPT/ALT (u/L)                             0 USS Abdomen (diffuse liver or not)          0 Outcome                                     54 dtype: int64</pre></div>	High	Use mean/median imputation.

Kaggle Dataset	Categorical data in the dataset	Moderate	Perform encoding (e.g., Label Encoding or One-Hot Encoding).
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