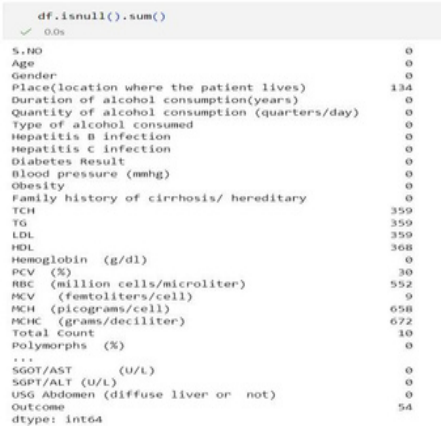
Data Collection and Preprocessing Phase

Date	18th June 2025
Team ID	LTVIP2025TMID41362
Project Title	Revolutionizing Liver Care : Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques .
Maximum 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	Missing values in all the columns of the dataset . (٤٢ columns) 	High	Use mean /median imputation .

```
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
USG Abdomen (diffuse liver or  not)           0
Outcome                                      54
dtype: int64
```

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