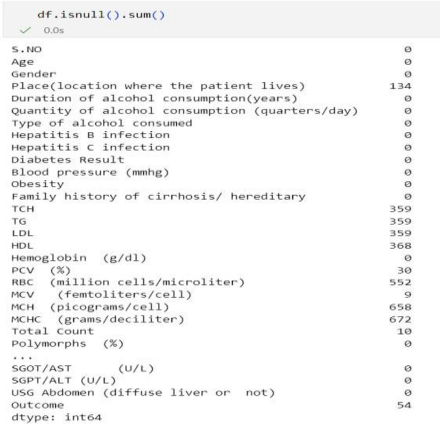
Data Collection and Preprocessing Phase

Date	31st January 2025
Team ID	LTVIP2025TMID43915
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. (42 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).