

## Data Collection and Preprocessing Phase

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|---------------|--|
| Date          | 24 June 2025   |
| Team ID       | LTVIP2025TMID33348   |
| Project Title | Revolutionizing Liver Care: Predicting Liver Cirrhosis Using Advanced Machine Learning Techniques. |
| Maximum Marks | 2 Marks  |

### Data Collection Plan & Raw Data Sources Identification Template

Elevate your data strategy with the Data Collection plan and the Raw Data Sources report, ensuring meticulous data curation and integrity for informed decision-making in every analysis and decision-making endeavor.

### Data Collection Plan Template

| Section                     | Description   |
|-----------------------------|---|
| Project Overview            | The machine learning project aims to predict liver cirrhosis based on patient information. Using a dataset with features such as age, gender, medical history, lab results, and lifestyle factors, the objective is to build a model that accurately predicts the likelihood of liver cirrhosis, facilitating early detection and informed decision-making in healthcare. |
| Data Collection Plan        | <ul style="list-style-type: none"> <li>Search for datasets related to liver cirrhosis, patient health records, and medical history.</li> <li>Prioritize datasets with diverse demographic and medical information.</li> </ul>   |
| Raw Data Sources Identified | The raw data sources for this project include datasets obtained from Kaggle, the popular platforms for data science competitions and repositories. The provided sample data represents a subset of the collected information, encompassing variables such as age, gender, medical history, lab results, and lifestyle factors for machine learning analysis.              |

### Raw Data Sources Template

| Source Name    | Description   | Location/URL  | Format | Size  | Access Permissions |
|----------------|---|---|--------|-------|--------------------|
| Kaggle Dataset | The dataset comprises patient details (age, gender, etc.), medical metrics, and liver cirrhosis outcomes. | <a href="https://www.kaggle.com/datasets/bhavani priya222/liver-cirrhosis-prediction">https://www.kaggle.com/datasets/bhavani priya222/liver-cirrhosis-prediction</a> | XLSX   | 47 kB | Public             |