Project Initialization and Planning Phase

Date	03-10-2024
Team ID	LTVIP2024TMID24892
Project Title	Liver Patient Identification – prediction of liver disease
Maximum Marks	3 Marks

Project Proposal (Proposed Solution):

The system we are proposing utilize various machine learning algorithms and techniques to identify liver patients. This system includes a machine learning-based approach for liver disease diagnosis using clinical and laboratory feature. A machine learning-based approach for liver disease diagnosis using clinical and laboratory features involves training machine learning algorithms on large datasets of clinical and laboratory features to identify patterns and relationships that can predict liver. By using this model we can predict which patient has liver disease accurately.

Project Overview	
Objective	Identifying wheather a person has a liver disease or not.
Scope	This project can identify the liver patient based on the clinical reports.
Problem Statement	
Description	Many patients with liver disease are not diagnosed until they exhibit symptoms of end-stage de compensation, which can be fatal. The current system relies heavily on manual data collection and analysis, which can be time-consuming and prone to errors.
Impact	It can be time-consuming and prone to errors. Many patients with liver disease do not have access to healthcare services, making it difficult for them to receive timely diagnosis and treatment.

Proposed Solution	
Approach	The system we are proposing utilize various machine learning algorithms and techniques to identify liver patients. This system includes a machine learning-based approach for liver disease diagnosis using clinical and laboratory feature.
Key Features	By using this model we can predict which patient has liver disease accurately. • Low cost • Less time consuming • Timely diagnosis

Resource Requirements

Resource Type	**Description**	**Specification/Allocation**
Hardware		
Computing Resources	CPU/GPU specifications, number of cores	e.g., 2 x NVIDIA V100 GPUs
Memory	RAM specifications	e.g., 8 GB
Storage	Disk space for data, models, and logs	e.g., 1 TB SSD
Software		
Frameworks	Python frameworks	e.g., Flask
Libraries	Additional libraries	e.g., scikit-learn, pandas, numpy
Development Environment	IDE, version control	e.g., Jupyter Notebook, Git
Data		
Data	Source, size, format	e.g., Kaggle dataset , 584 reports, CSV