

Project Design Phase-II
Technology Stack (Architecture & Stack)

Date	22nd October 2022
Team ID	PNT2022TMID53422
Project Name	Project Design phase-II
Maximum Marks	4 Marks

Technical Architecture:

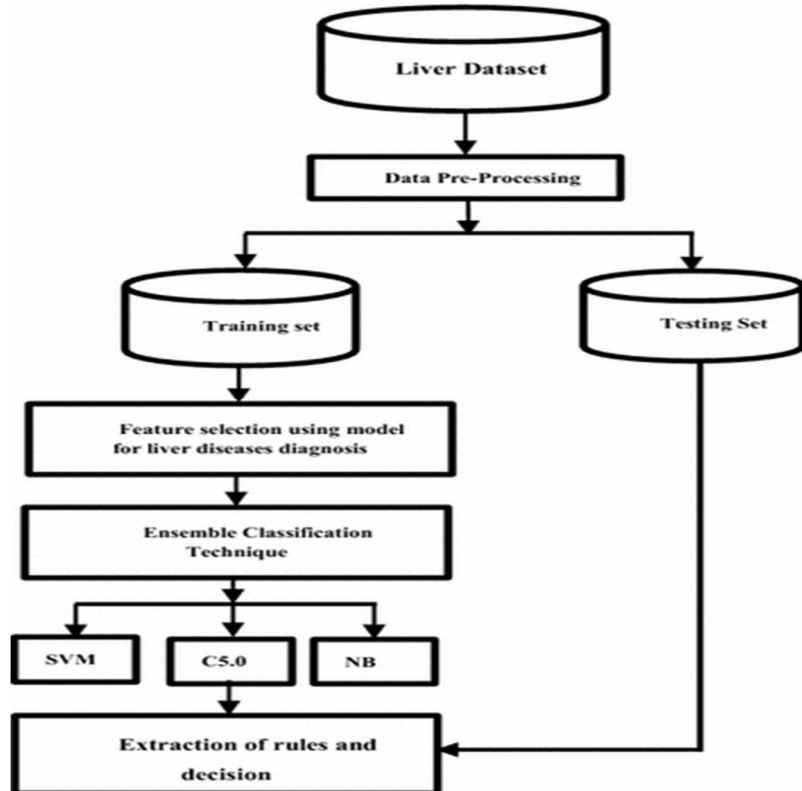


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	The user interacts with the application	HTML
2.	Application Logic-1	The user interacts with the UI to upload the input features	HTML, Python-Flask
3.	Application Logic-2	The model analyses the uploaded features.	Python
4.	Application Logic-3	Once the analysis is done, the prediction is shown on the UI.	Python
5.	Database	Patient records collected from North East of Andhra Pradesh, India.	Python
6.	Cloud Database	Database that runs on a cloud computing platform.	IBM cloud databases
7.	File Storage	Storing data in a hierarchical structure	Local File system
8.	Machine Learning Model	Applying classification algorithms on our dataset	Support vector Machine, Random Forest regression, K-nearest Neighbours algorithm

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Flask micro web framework	Python
2.	Security Implementations	The aspects of the job including detecting malicious attacks , analysing the network endpoint protection and vulnerability assessment, sign in encryption	IBM cloud ,IBM Watson studio
3.	Availability	Available for all data size.	
4.	Performance	Can extend the storage according to our needs.	Python