Project Design Phase II
Technology Stack (Architecture & Stack)

Date	18 October 2022
Team ID	PNT2022TMID32593
Project Name	Detecting Parkinson's Disease using Machine Learning
Maximum Marks	4 Marks

Technical Architecture:
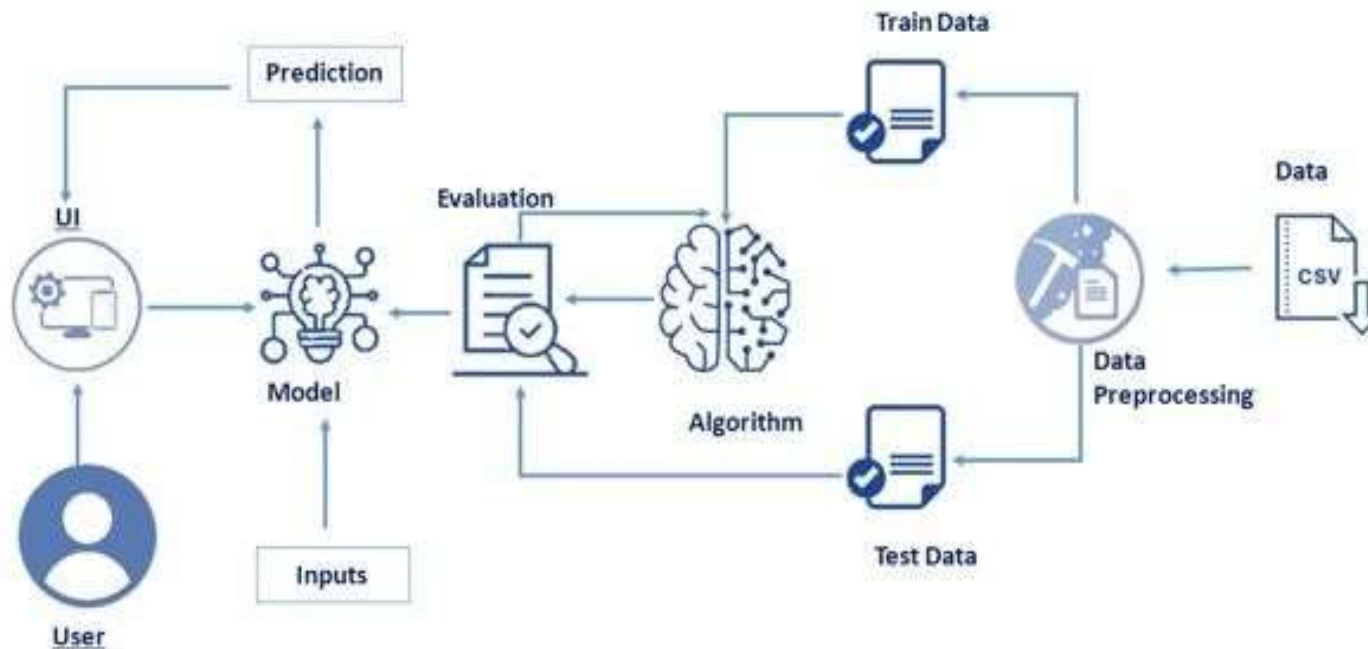
Components & Technologies:

S.No	Component	Description	Technology
1	User Interface	The Front-end part of the application where user interacts	HTML,CSS, JavaScript
2	Application Logic-1	Logic for a process in the application	Python
3	Application Logic-2	Logic for a process in the application	IBM Watson Studio
4	Application Logic-3	Logic for a process in the application	IBM Watson Studio
5	Database	Data type ,Configurations etc	MySQL
6	Cloud Database	Database services on cloud	IBM DB2,IBM Cloudant etc.
7	Libraries	Import Libraries into data	OpenCV, Imutils, Sklearn, Pickle, Scikit
8	File Storage	File storage requirements	Local File System
9	Machine Learning Model	Purpose of Machine Learning Model	Random Forest Classifier
10	Training and testing data	Purpose of training and testing data	IBM WATSON, Random Forest Classifiers
11	Infrastructure	Application Deployment on Local System/Cloud	Local Server Configuration: Local System. Cloud Server Configuration: IBM Watson

Application Characteristics:

S.No	Characteristics	Description	Technologies Used
1	Open-Source Frameworks	List the open-source frameworksused	Flask, Scikit-learn
2	Security	Authentication of user credentials	Checking user login details
3	Scalable Architecture	Justify the Scalability of architecture	Apache
4	Performance	Design consideration for the performance of the application (number of request per second ,use of cache) etc.	Flask