

PROJECT DESIGN PHASE – II
TECHNOLOGY STACK (architecture and stack)

Date	17/10/2022
Team ID	PNT2022TMIDO6357
Project name	Detecting Parkinson's disease using Machine Learning
Maximum marks	4 marks

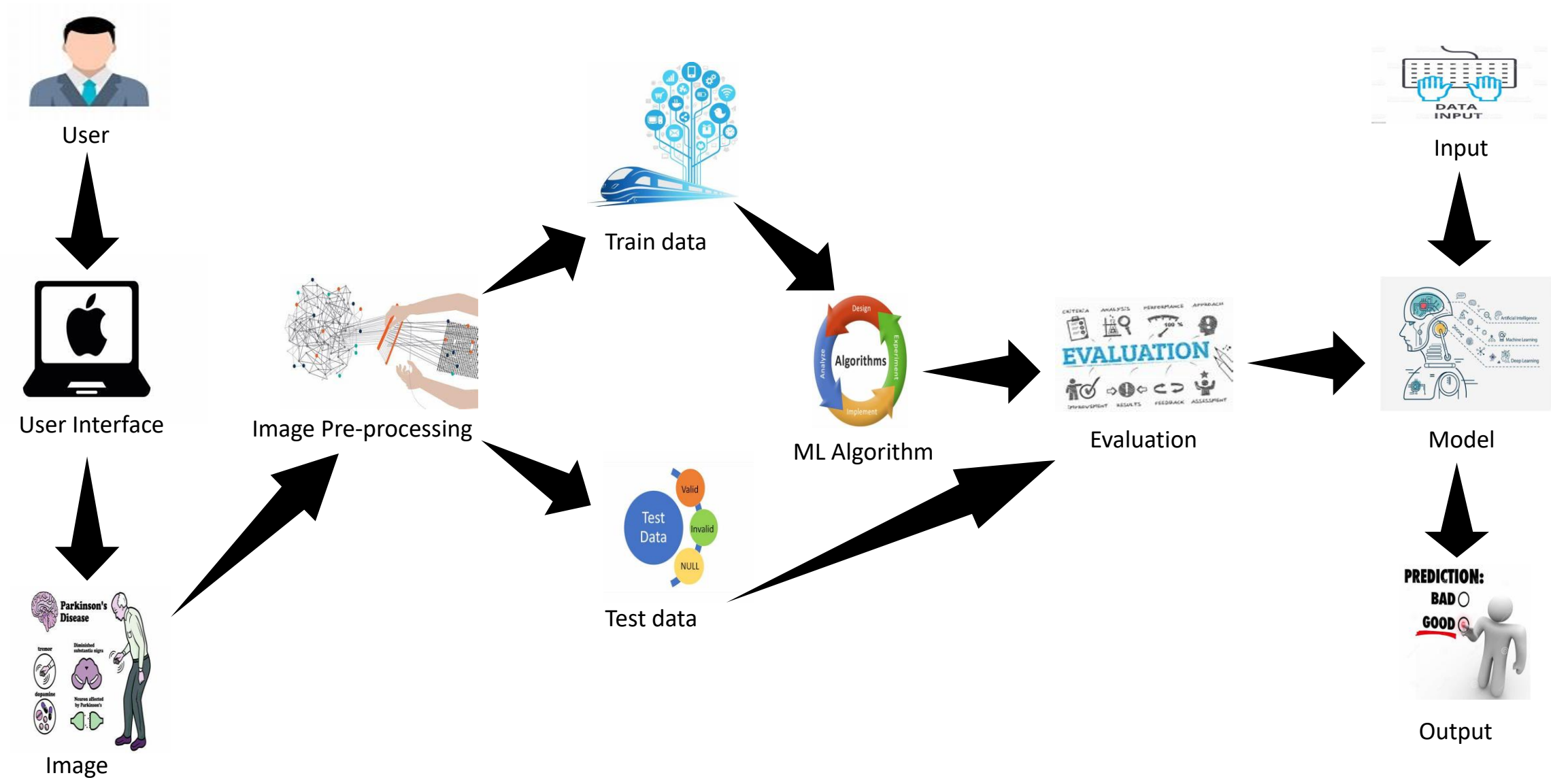


TABLE -1 :

COMPONENTS AND TECHNOLOGIES :

S.NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1	User interface feature	Interaction of user with the application	HTML , CSS , Javascript
2	Application logic-1	Logic for a process in the application	Java/Python
3	Application logic-2	Logic for a process in the application	IBM Watson STT service
4	Application logic-3	Logic for a process in the application	IBM Watson service

5	Database	Type of data , configurations	MySQL , NoSQL,...
6	Cloud database	Database Service on cloud	IBM DB2
7	File storage	File storage requirements	Local file system or IBM block storage
8	External API-1	Purpose of external API used in the application	Authentication API,...
9	External API-2	Purpose of external API used in the application	Disease detection API
10	Machine learning model	The purpose of machine learning model	Random forest Algorithm
11	Infrastructure(Server/cloud)	Application deployment on local cloud/system	Local server configuration : local system Cloud server configuration : IBM Watson

TABLE 2 :
Application characteristics :

S.NO.	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1	Open source frameworks	List the open source frameworks used	Java , Github , Numpy , Pandas , Scikit Learn
2	Scalable Architecture	Justify the scalability of architecture	MySQL-It stores huge amount of data
3	Availability	Justify the availability of application	IBM Watson-It could be easily accessed
4	Performance	Design consideration for the performance of the application	Flask-It handles multiple requests