

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

Date	03 October 2022
Team ID	PNT2022TMID35502
Project Name	Detection of Parkinson's disease using Machine Learning
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

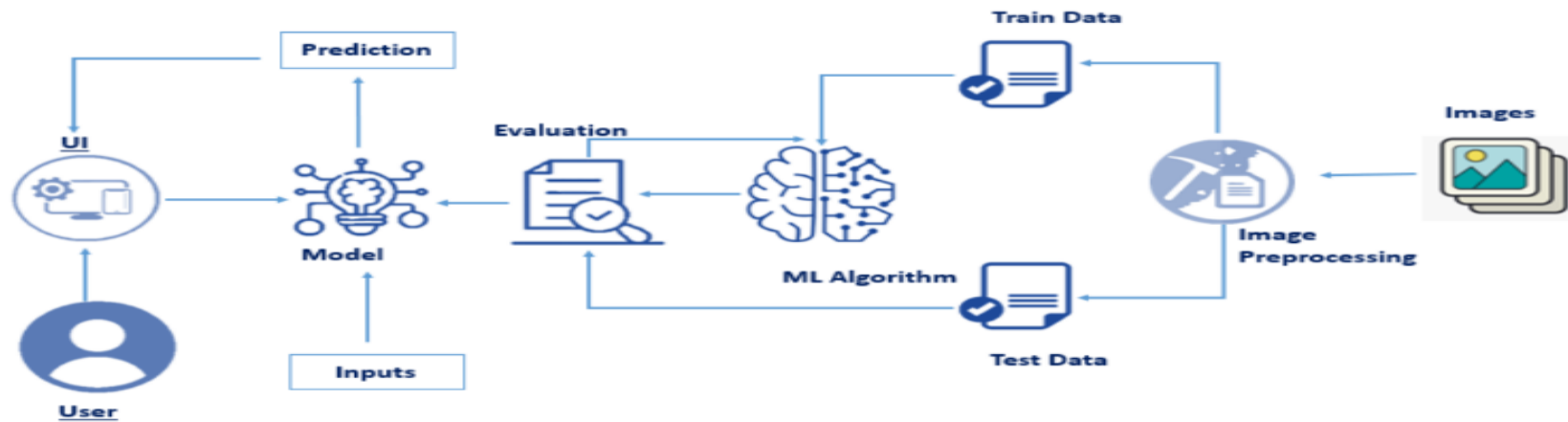


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI, Mobile App.	HTML, CSS, JavaScript, Flask framework
2.	Application Logic-1	Handwritten drawings are uploaded	Python ,Image Processing
3.	Application Logic-2	Prediction Based on Diagram	IBM Watson
4.	DataBase	Handwritten Spiral and Wavy Images	MySQL
5.	Cloud Database	IBM Cloud	IBM DB2
6.	External API 1	Spiral and Wavy Drawings for Prediction of Disease	Image Processing
7.	External API 2	Data analysis for Knowledge Base	Train model in Python
8.	File Storage	10-1000mb	IBM Block Storage
9.	Machine Learning Model	Prediction using various model giving higher accuracy	HOC, Random Forest Classifiers
10.	Infrastructure (Server / Cloud)	Cloud server con	IBM Cloud.

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Frontiers,Guithub	Python
2.	Security Implementations	Encryption	Built-in Encryptions, BYOK
3.	Scalable Architecture	3-tier Architechure -horizontal	Python,CSS,js