

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

Date	29 October 2022
Team ID	PNT2022TMID52927
Project Name	Project - Detecting Parkinson's disease using Machine Learning
Maximum Marks	4 Marks

Technical Architecture:

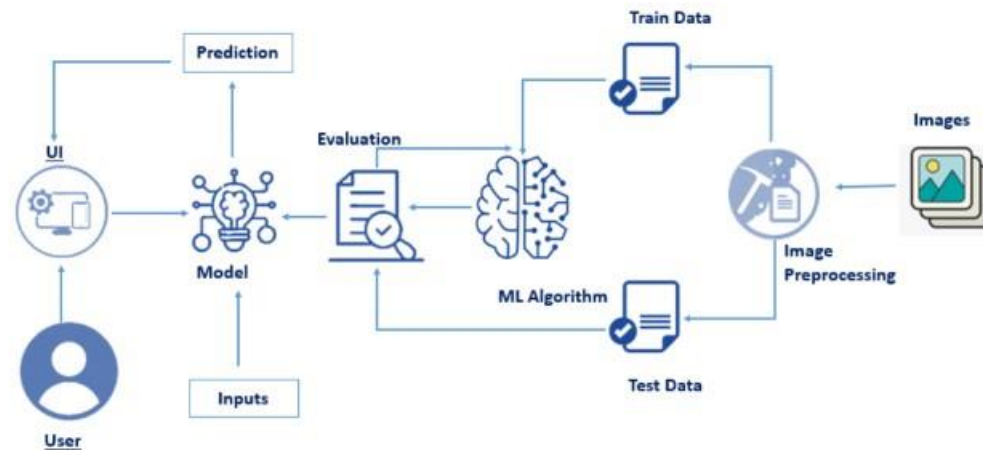


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	Web UI, Mobile App	HTML, CSS, JavaScript, Flask Framework
2.	Application Logic-1	Handwritten Drawing Images are uploaded.	Python And 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.	File Storage	10-1000 Mb	IBM Block Storage
7.	External API-1	Spiral And Wavy Images For Disease Prediction	Google Colab/Python
8.	External API-2	Data Analysis For Knowledge Base	Image Processing
9.	Machine Learning Model	Prediction Using Various Model Giving Higher Accuracy	HOG, Random Forest Classification
10.	Infrastructure (Server / Cloud)	Cloud Server	IBM Cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Frontiers, GitHub	Python
2.	Security Implementations	Encryption	Built-In Encryptions, BYOK
3.	Scalable Architecture	3-tier architecture	Python, CSS, JS

