

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

Date	22 October 2022
Team ID	PNT2022TMID34835
Project Name	Detecting Parkinsons Disease using Machine Learning
Maximum Marks	4 Marks

Technical Architecture:

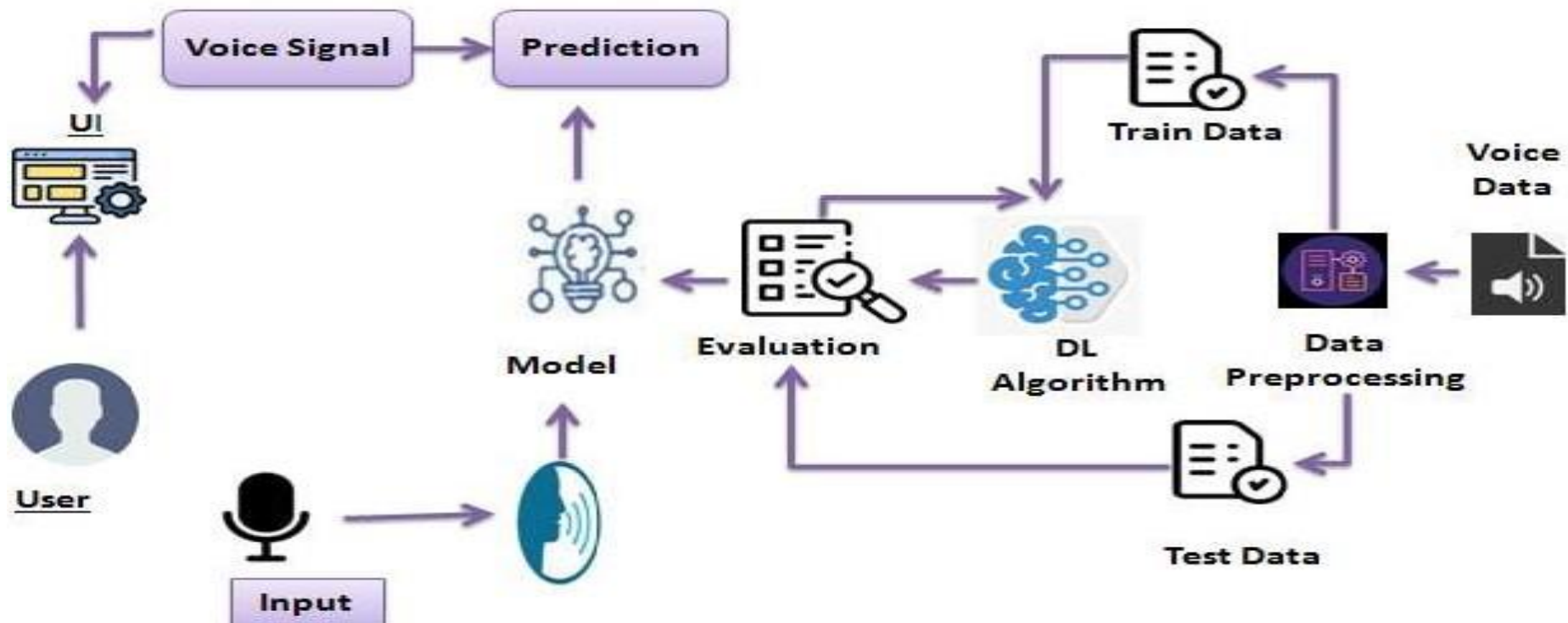


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	UI (Web)	HTML, CSS, JavaScript.
2.	Application Logic-1 voicesignal Data Pre-processing	Voice signal is pre-processed with the help of library files.	Python, TensorFlow
3.	Application Logic-2Building Model	Building VAD model to recognize the voice.	Python
4.	Application Logic-3Creation of app	App is built to obtain voice as input and 0's and 1's as output.	HTML, CSS, JavaScript
5.	Dataset	Voice signal data set.	From IBM
6.	Cloud Database	User input voice is stored in cloud.	IBM Cloud
7.	File Storage	File storage contains dataset and source code.	Device or Drive
8.	Machine Learning Model	VAD model was used to recognize the pre processed voice signal by predicting	VAD Model by Python

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Application development, data pre-processing.	Visual studio code, Anaconda navigator, TensorFlow
2.	Security Implementations	It identifies the parkinsons disease using voice signal	OpenCV
3.	Scalable Architecture	It can be used in any environment and user friendly	OpenCV
4.	Availability	It helps the people to detect the parkinsons disease in early stage so that loss of life is prevented	ML
5.	Performance	Rapid response to the voice	VAD