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

Date	22 October 2022
Team ID	PNT2022TMID36381
Project Name	Fertilizers Recommendation System for Disease Prediction.
Maximum Marks	4 Marks

Technology Architecture:

A technology stack is a set of technologies that are stacked together to build any application. Popularly known as a technology infrastructure or solutions stack, technology stack has become essential for building easy-to-maintain, scalable web applications.
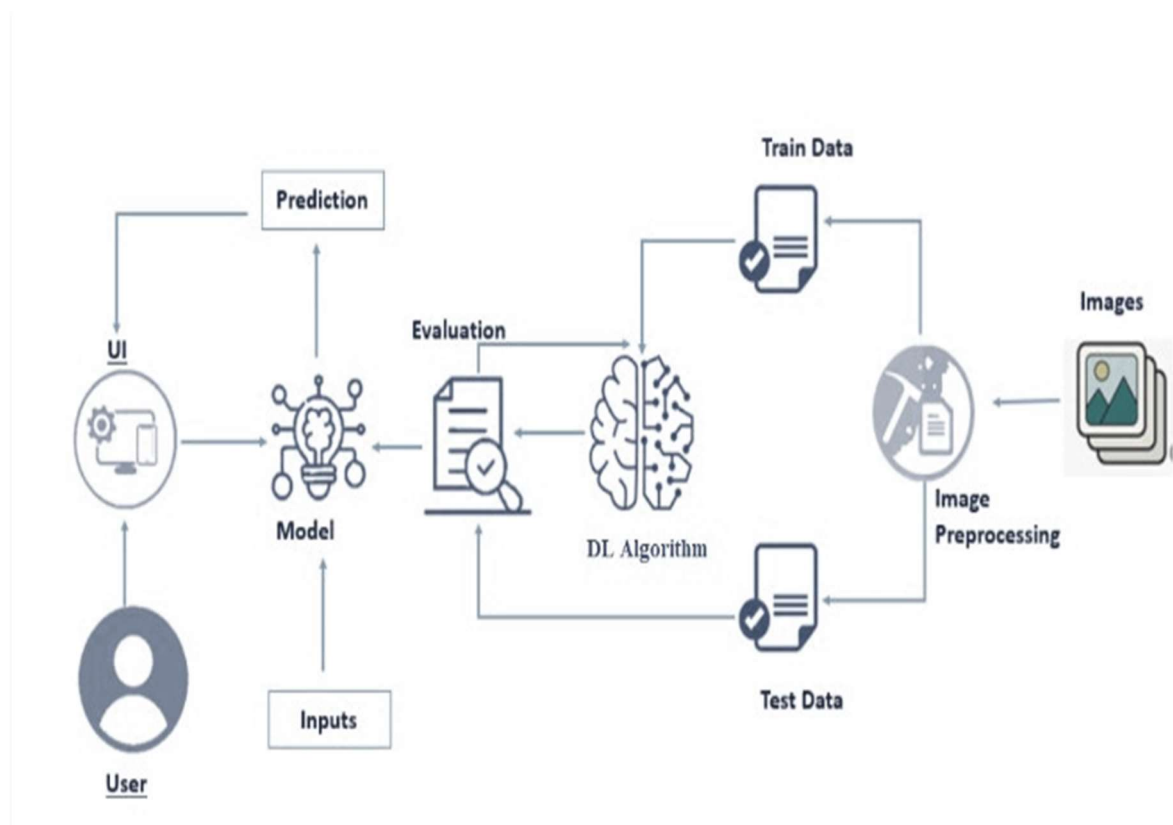
S.NO	COMPONENT	DESCRIPTION	TECHNOLOGY
1.	User interface	How user interacts with application e.g. Web UI, Mobile App, Chatbot etc	HTML, CSS, JavaScript , React Js etc.
2.	Prediction	Prediction of process in the Application	collaborativebased filtering technique, content-based technique, and hybrid algorithm.
3.	Evaluation	Logic of process in the Application	Java/Python
4.	Database	Data Type, Configurations etc.	MySQL, NoSQL, etc
5.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
6.	Image Preprocessing	the steps taken to format images before they are used by model training and inference	Python, Pytorch, OpenCV, Keras, Tensorflow, and Pillow.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	Train Data	To train an algorithm or machine learning model to predict the outcome of design	Machine learning algorithms

9.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.