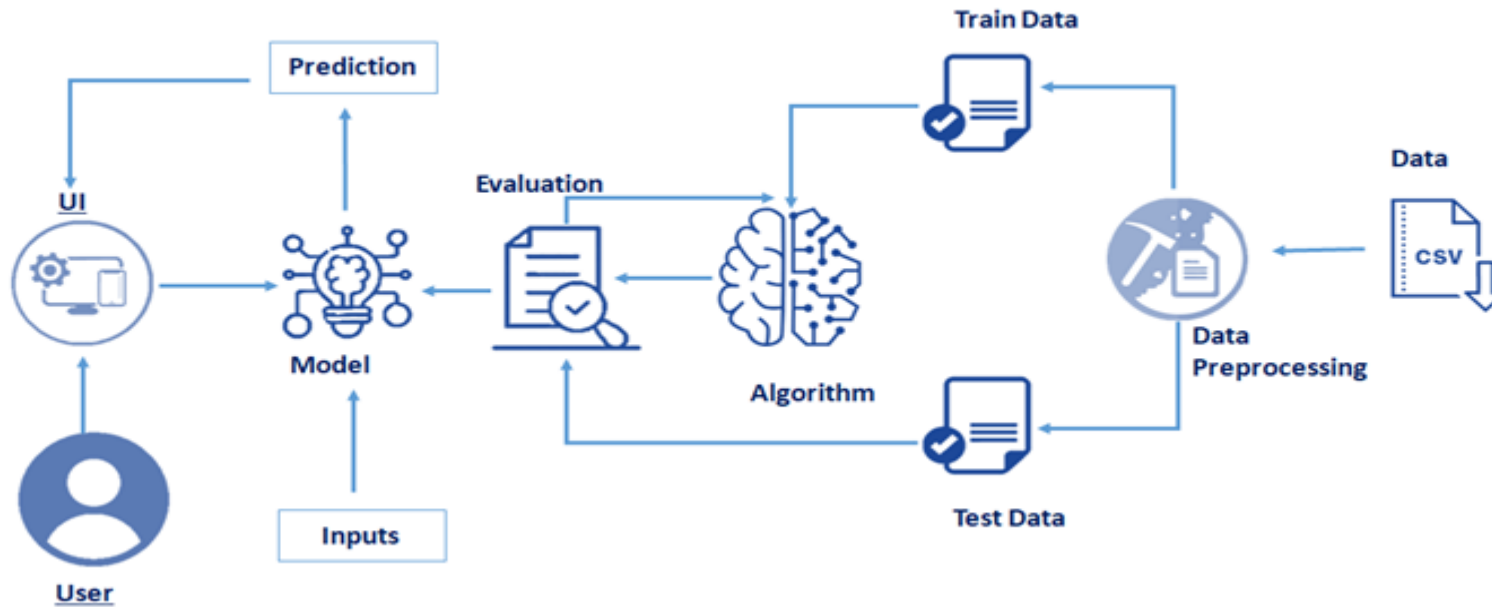


**Project Design Phase-II**  
**Technology Stack (Architecture & Stack)**

Date	14 October 2022
Team ID	PNT2022TMID44190
Project Name	EXPLORATORY ANALYSIS OF RAIN FALL DATA IN INDIA FOR AGRICULTURE
Maximum Marks	4 Marks

**Technical Architecture**



**Table-1 : Components & Technologies:**

S.No	Component	Description	Technology
1.	User Interface	By using mobile app user can communicate with application	HTML, CSS, JavaScript
2.	Application Logic-1	By entering the weather details	Python
3.	Application Logic-2	Upload the dataset then this dataset is processed using ML technique	IBM Watson STT service
4.	Application Logic-3	After the progression of the data set it will show analysis result	IBM Watson Assistant
5.	Database	Integers and strings	MySQL, NoSQL, etc.
6.	Cloud Database	Database Service on Cloud	IBM DB2, IBM Cloudant etc.
7.	File Storage	File storage requirements	IBM Block Storage or Other Storage Service or Local Filesystem
8.	Machine Learning Model	Purpose of Machine Learning Model	Object Recognition Model, etc.
9.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Cloud Server Configuration :	Local, Cloud Foundry, Kubernetes, etc.

**Table-2: Application Characteristics:**

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Conventional neural network	Machine Learning
2.	Security Implementations	The barrier network that sits between a private internal network and the public internet.	e.g. SHA-256, Encryptions, IAM Controls, OWASP, proxy etc.
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier, Micro-services)	CNNS
4.	Availability	It is available for all users at any time	User can give their data for processing
5.	Performance	Checks for speed , stability and reliability of the software ,hardware or even the network of the system under test.	Hardware and support system ,software applications