

PROJECT DESIGN PHASE-II

TECHNOLOGY STACK(Architecture and stack)

Date	17/10/2022
Team ID	
Project name	Exploratory Analysis Of RainFall Data In India For Agriculture
Maximum marks	4 marks

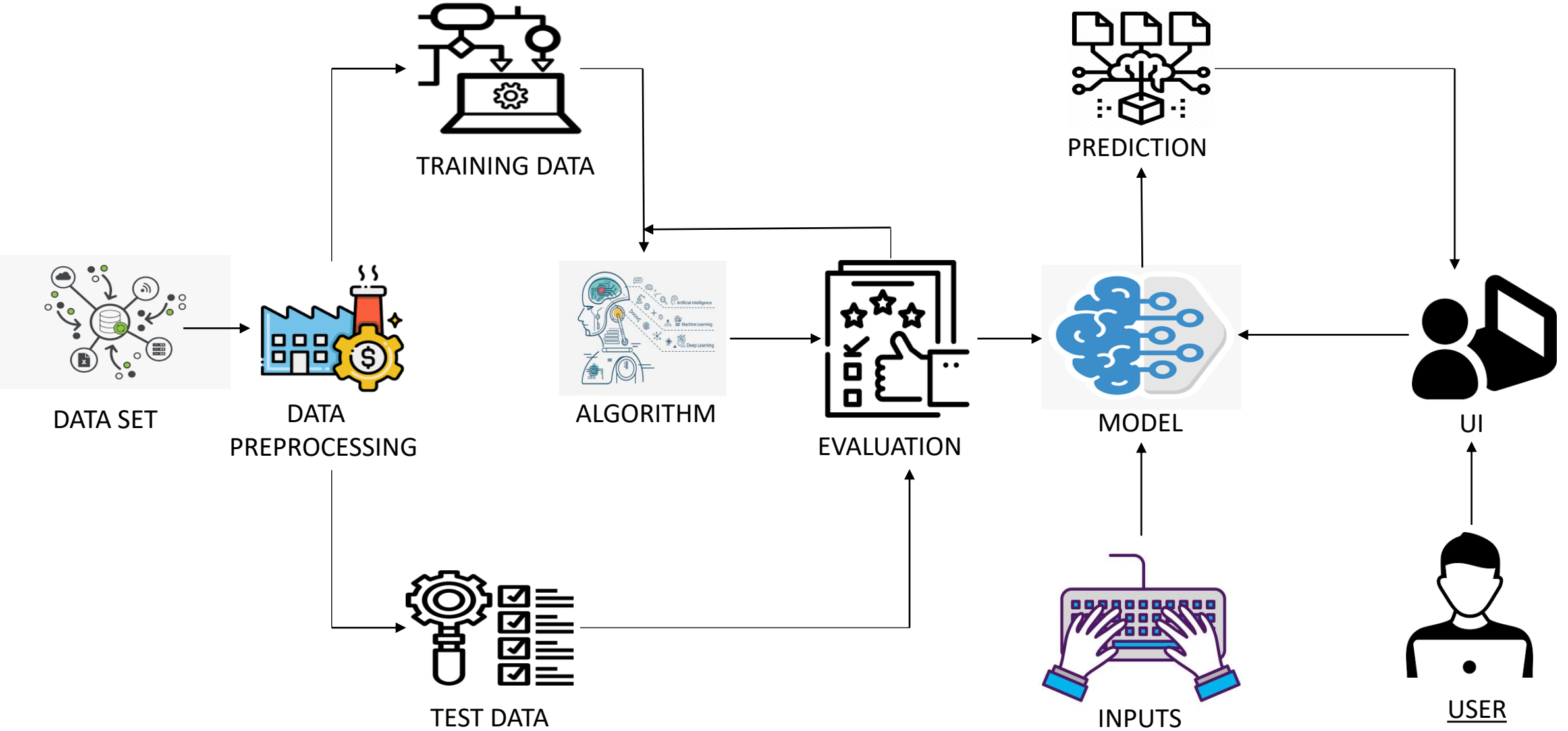


TABLE -1:

COMPONENTS AND TECHNOLOGY:

S.No	COMPONENT	DESCRIPTION	TECHNOLOGY
1	User interface feature	Interaction of user with the application	HTML,CSS,JavaScript
2	Application logic-1	Logic for a process in the application	Java/python
3	Application logic -2	Logic for a process in the application	IBM Watson STT service
4	Application logic -3	Logic for a process in the application	IBM Watson service

5	Database	Type of data, configurations	MySQL,NoSQL,..
6	Cloud database	Database Service on cloud	IBM DB2
7	File storage	File storage requirements	Local file system or IBM block storage
8	External API-1	Purpose of external API used in the application	Authentication API,..
9	External API-2	Purpose of external API used in the application	Rainfall detection API
10	Machine learning model	The purpose of machine learning model	Decision Tree Algorithm
11	Infrastructure(Server/cloud)	Application deployment on local cloud/system	Local server configuration : local System Cloud server configuration:IBM watson

TABLE 2:
Application characteristics :

S.No	CHARACTERISTICS	DESCRIPTION	TECHNOLOGY
1	Open source frameworks	List the open source frameworks used	Java, Github, Numpy, Pandas, Scikit Learn
2	Scalable Architecture	Justify the scalability of architecture	MySQL-it stores huge amount of data
3	Availability	Justify the availability of application	IBM Watson-it could be easily accessed
4	Performance	Design consideration for the performance of the application	Flask-it handles multiple requests