

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

Date	14 October 2022
Team ID	PNT2022TMID32283
Project Name	Exploratory Analysis of Rainfall in India for Agriculture
Maximum Marks	4 Marks

Technical Architecture:

The Deliverable shall include the architectural diagram as below and the information as per the table1 & table 2

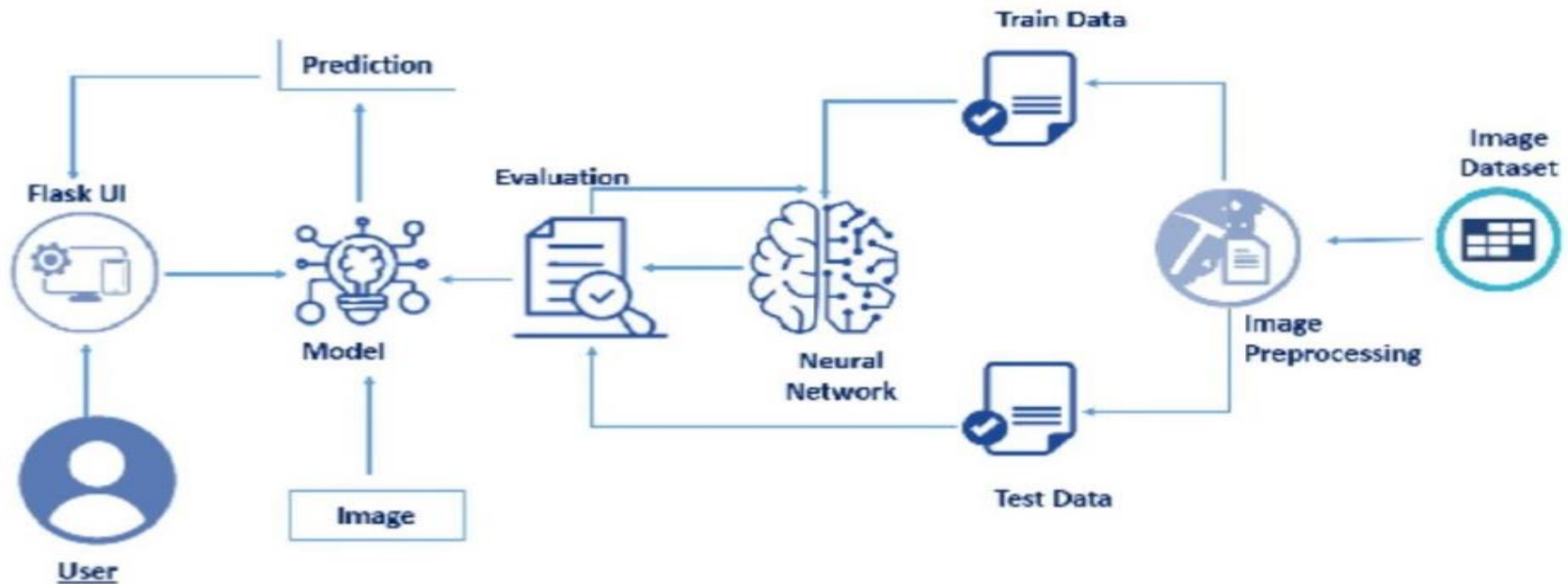


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	How user interacts with application	HTML, CSS, JavaScript
2.	Database	Data type, Configurations	MySQL
3.	Cloud Database	Database Service on Cloud	IBM Cloud
4.	File Storage	File storage requirements	Local File system or other Storage Service
5.	Machine Learning Model	Purpose of Machine Learning model	Supervised learning
6.	Infrastructure	Application Deployment on Local System on Cloud	Local System

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	List the open-source frameworks used	Flask
2.	Security Implementations	List all the security / access controls implemented, use of firewalls etc.	Encryptions
3.	Scalable Architecture	Justify the scalability of architecture (3 – tier,	User-Interface, Machine Learning

S.No	Characteristics	Description	Technology
		Micro-services)	model, Data pre-processing
4.	Performance	Design consideration for the performance of the application	Technology used

References:

<https://www.ibm.com/cloud/architecture>

<https://aws.amazon.com/architecture>