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

Date	15 October 2022
Team ID	PNT2022TMID49570
Project Name	Project - A Novel Method for Handwritten Digit Recognition System
Maximum Marks	4 Marks

Technical Architecture:
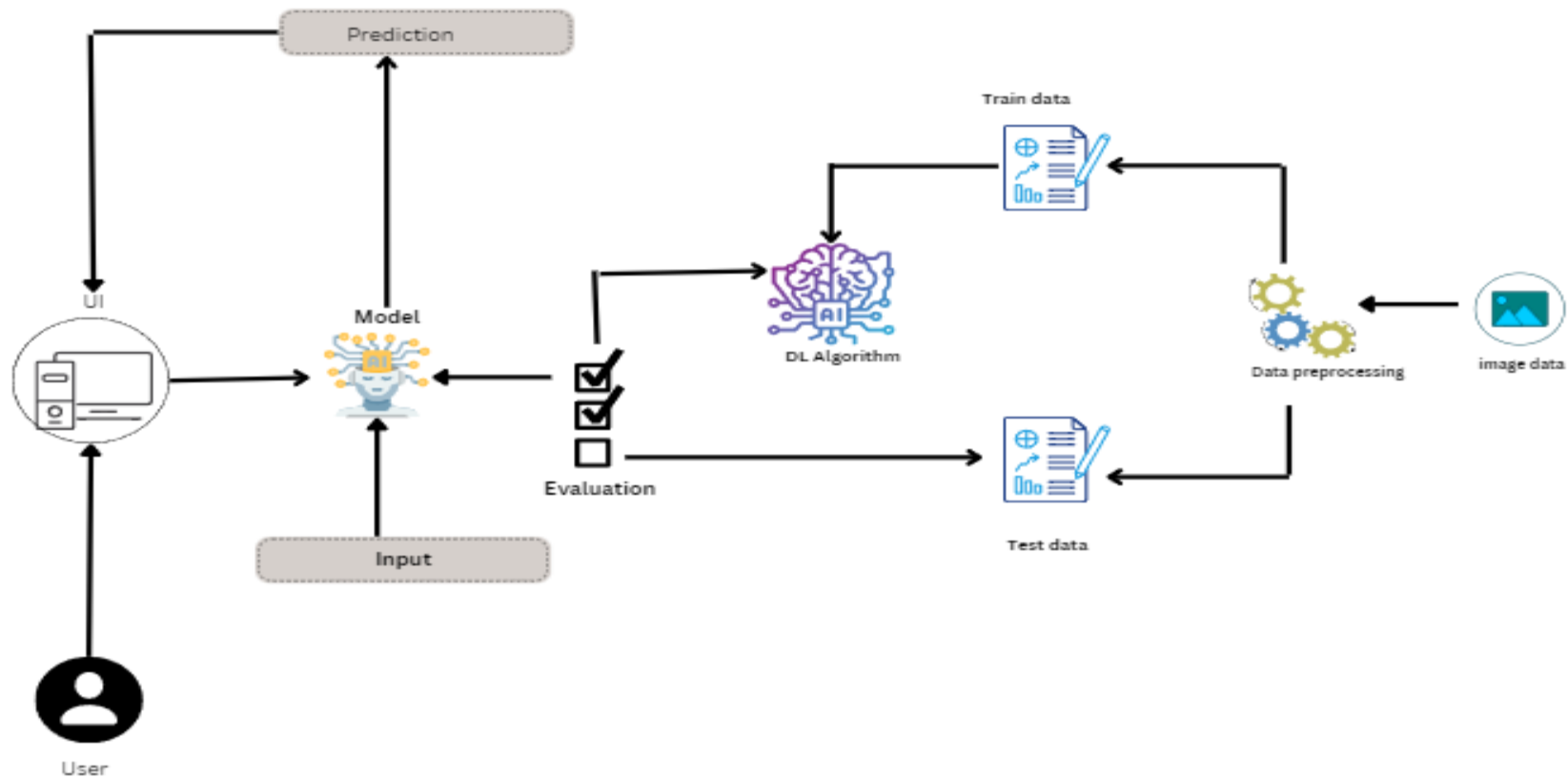
Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1.	User Interface	User interacts with Web UI	HTML, CSS, JavaScript / Python
2.	Application Logic-1	Import dataset	Python
3.	Application Logic-2	Data Pre-processing	Python
4.	Application Logic-3	Building regression model	Python
5.	Deep Learning Model	Convolution Neural Network Model	Image Recognition Model
6.	Infrastructure (Server / Cloud)	Application Deployment on Local System / Cloud Local Server Configuration: Apache Cloud Server Configuration: IBM Cloud	Apache, IBM cloud

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1.	Open-Source Frameworks	Deep learning Frameworks are- Tensor flow, keras, pytorch and caffe	Python for AI
2.	Availability	Distributed Server	Apache
3.	Performance	It recognises the digit within seconds	Python