

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	03 October 2022
Team ID	PNT2022TMID13092
Project Name	Project - A Novel Method for handwritten recognition
Maximum Marks	4 Marks

Technical Architecture:

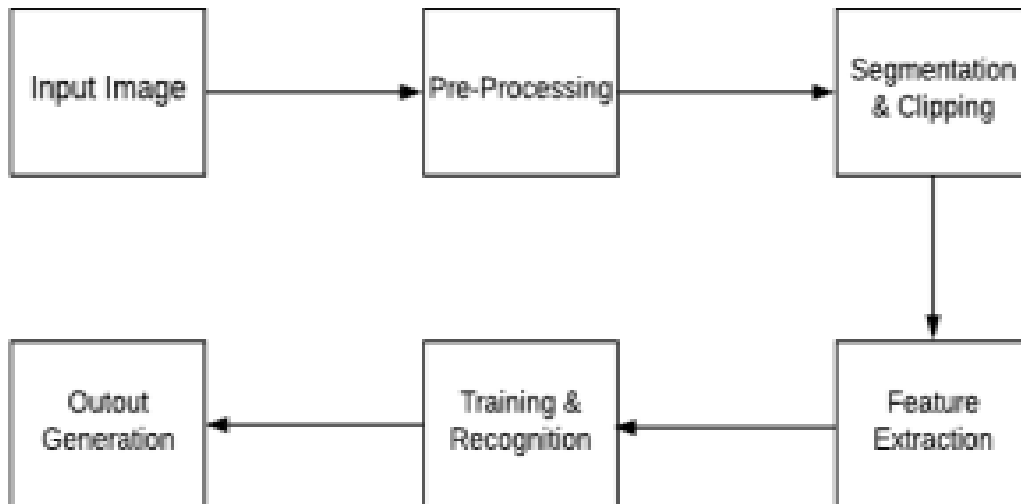


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1	User Interface	User interacts with application through Web UI	HTML, CSS, JavaScript
2	Application Logic-1	Forward propagation: Input data is fed in the forward direction through the network. Each hidden layer accepts the input data, processes it as per the activation function and passes it to the Successive layer. We will use the sigmoid function as our 'activation function'.	Python
3	Application Logic-2	Backward propagation: It is the practice of fine- tuning the weights of a neural network based on the error rate obtained in the previous iteration.	Python
4	Database	MNIST Database	Dataset

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1	AI model for digit recognition	The system not only produces a classification of the digit but also a rich description	AI model
2	Identification	Easily identify trends and patterns	CNN model
3	Handling of data	Handling multidimensional and multi variety data	MNIST Dataset and AI model
4	Capability	No human intervention needed	AI Model