

Project Design Phase-II

Technology Stack (Architecture & Stack)

Date	11 November 2023
Team ID	592141
Project Name	ASL -Alphabet Image Recognition
Maximum Marks	4 marks

Technical Architecture:

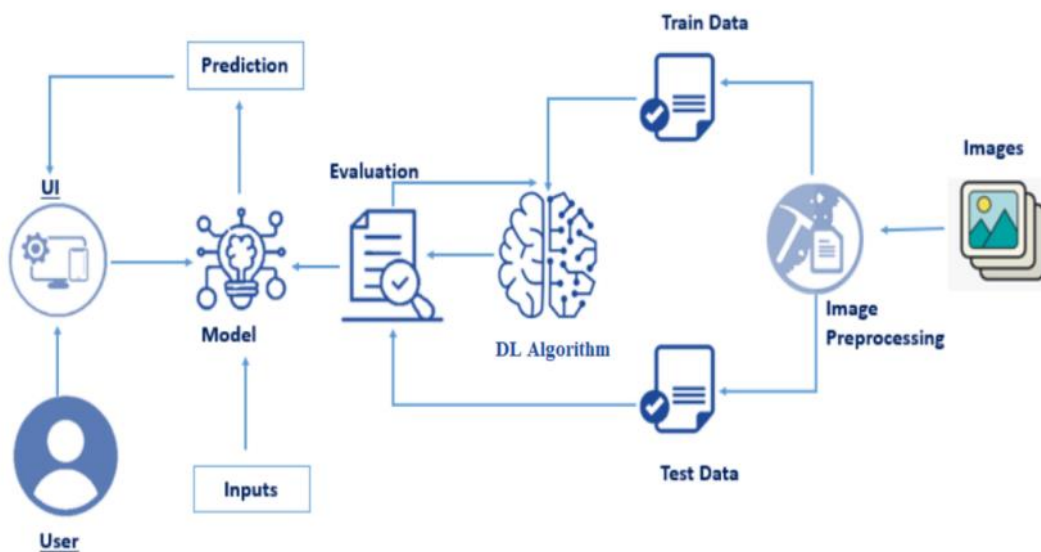


Table-1 : Components & Technologies:

S.No	Component	Description	Technology
1	Web Application UI	User interface for interacting with the application	HTML, CSS, JavaScript
2	Flask Application	Backend logic for processing images	Python(flask)
3	CNN model	Analyse the image , then prediction is shown on the flask application	Tensor flow, keras
4	User Interface	Uploading the image ,and submit	Flask
5	File upload handling	After upload the image ,use trained model predicts the sign	Flask(file handling)

Table-2: Application Characteristics:

S.No	Characteristics	Description	Technology
1	Performance	Manages file uploads and image processing efficiently to optimize application performance	Flask, TensorFlow, Keras
2	Availability	Ensure the availability through the flask	Flask, HTTP protocol
3	External libraries	Tensor flow, keras and flask foe web application development	Tensor flow, keras, Flask
4	Scalable Architecture	Utilizes flask	Flask