

Project Design Phase-I Solution Architecture

Date	19 September 2022
Team ID	PNT2022TMID46690
Project Name	Project - A Novel Method For Handwritten Digit Recognition System
Maximum Marks	4 Marks

Solution Architecture:

Handwriting recognition is one of the compelling research works going on because every individual in this world has their own style of writing.

- It is the capability of the computer to identify and understand handwritten digits or characters automatically.
- Because of the progress in the field of science and technology, everything is being digitalized to reduce human effort.
- Hence, there comes a need for handwritten digit recognition in many real-time applications.
- MNIST data set is widely used for this recognition process and it has 70000 handwritten digits.
- We use Artificial neural networks to train these images and build a deep-learning model.
- Web application is created where the user can upload an image of a handwritten digit, this image is analyzed by the model and the detected result is returned to UI

Example - Solution Architecture Diagram:

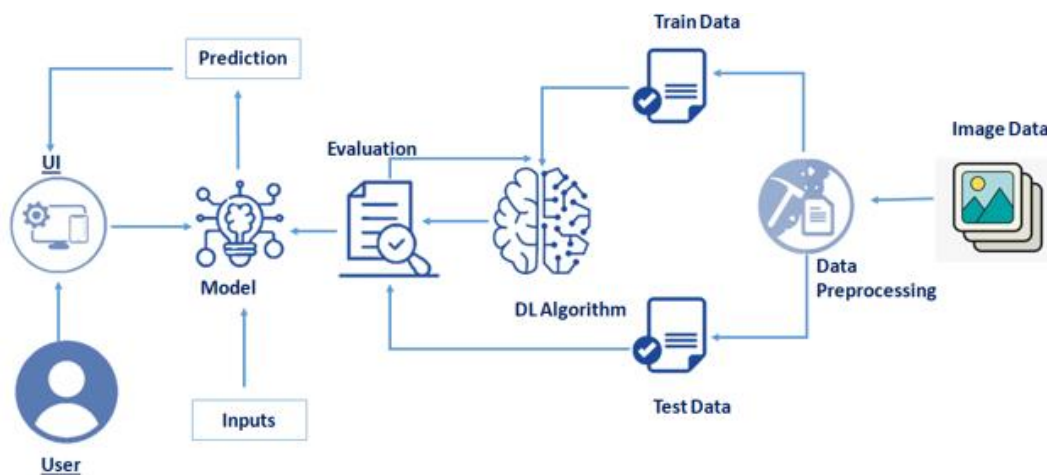


Figure 1: Architecture diagram