

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

Date	15 October 2022
Team ID	PNT2022TMID10802
Project Name	A Novel Method for Handwritten Digit Recognition System
Maximum Marks	4 Marks

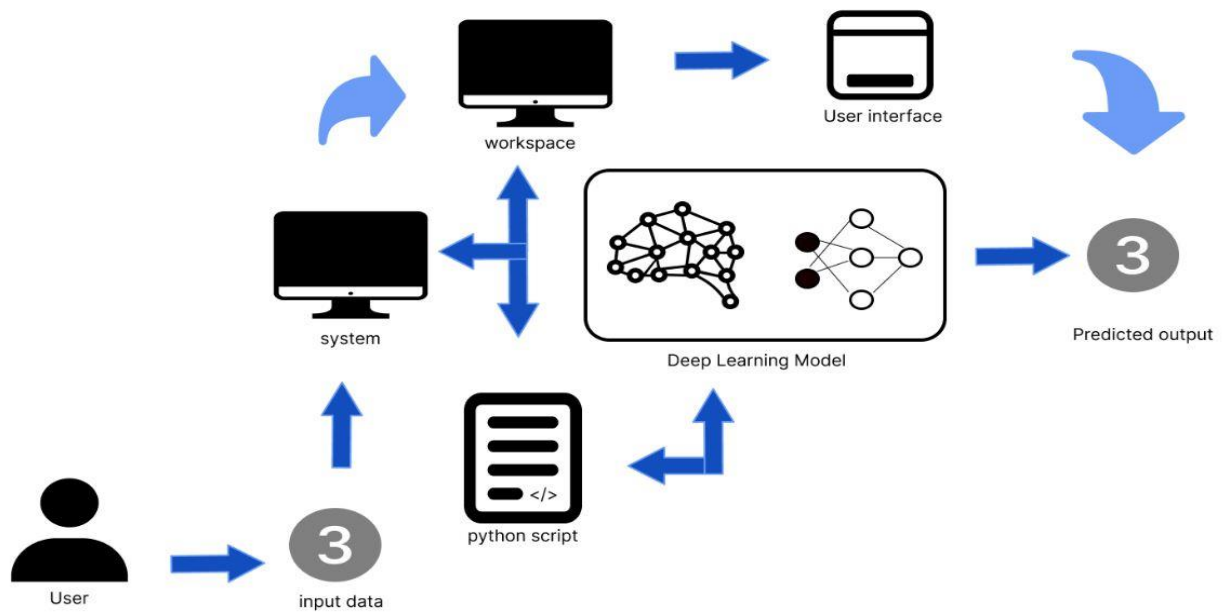
Technology Stack & Architecture:

A complicated process with numerous sub-processes, solution architecture connects business issues with technological solutions.

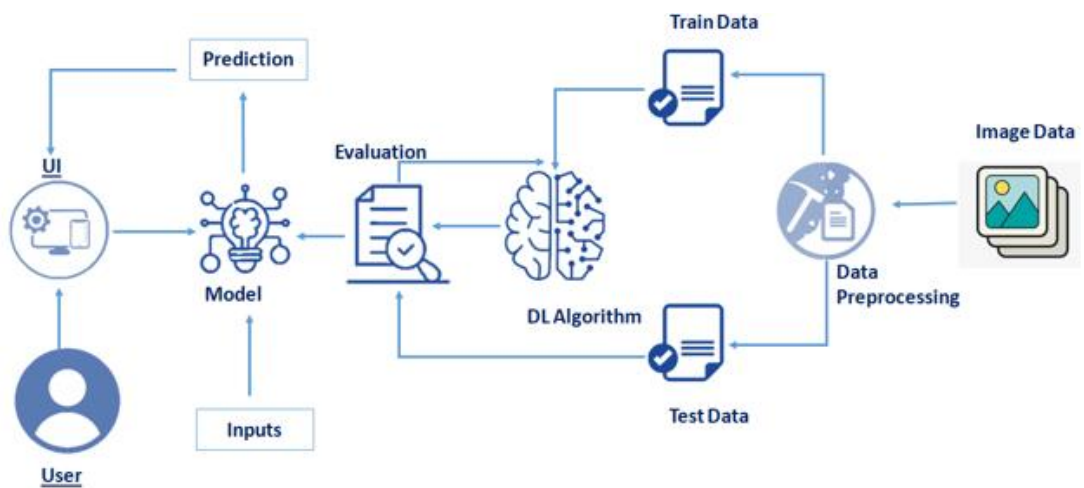
Because everyone in the world has a unique writing style, handwriting identification is one of the fascinating research projects now being conducted. It is the ability of a computer to automatically recognize and comprehend handwritten numbers or letters. Every aspect of life is being digitalized to lessen the need for human labor as a result of advancements in science and technology.

Hence, there comes a need for handwritten digit recognition in many real-time applications. Its goals are to:

- The MNIST data collection, which contains 70000 handwritten digits, is frequently utilized for this recognition method.
- We train these photos using artificial neural networks and create a deep learning model.
- A web application is developed that allows users to upload pictures of handwritten numbers.
- The model analyses this image, and the discovered outcome is sent back to the user interface.



Process Flow Diagram



Technology Architecture