

Project Design Phase-I Solution Architecture

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| Date | 30 October 2022 |
| Team ID | PNT2022TMID37246 |
| Project Name | Project - A Novel Method for Handwritten Digit Recognition System |
| Maximum Marks | 4 Marks |

Solution Architecture:

- 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 digitized to lessen the need for human labor as a result of advancements in science and technology.
- Thus handwritten digit recognition is required in many real-time applications. The MNIST data collection, which contains 70000 handwritten digits, is frequently utilized for this recognition method.
- In order to train these photos and create a deep learning model, we use artificial neural networks.
- A web application is developed that allows users to upload pictures of handwritten numbers. The model examines this image and the detected result is returned to the UI.

