

# A Novel Method for Handwritten Digit Recognition System

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## **Project Flow:**

- The user interacts with the UI (User Interface) to upload the image as input
- The uploaded image is analysed by the model which is integrated
- Once the model analyses the uploaded image, the prediction is showcased on the UI

**To accomplish this, we have to complete all the activities and tasks listed below**

- Understanding the data.
  - Importing the required libraries
  - Loading the data
  - Analysing the data
  - Reshaping the data.
  - Applying One Hot Encoding
- Model Building
  - Creating the model and adding the input, hidden and output layers to it
  - Compiling the model
  - Training the model
  - Predicting the result
  - Testing the model by taking image inputs
  - Saving the model
- Application Building
  - Create an HTML file
  - Build Python Code