Big Data Laboratory - Assignment 6

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Task1:

A FastAPI is set up for digit recognition.

- parse_command() function reads terminal command to obtain model file path
- load_model() loads the model from the file.
- predict_digit() makes a prediction of an image input using the loaded model.
- /predict endpoint of the API asynchronously calls the previous functions to make a prediction of the API call.

Task2:

- format_image() has been introduced to task1 to fix the image size to 28x28. This allows the script to predict digits from images of any size. The files have been tested on manually curated digit images on paint.

Assignment files can be found on https://github.com/PrahalaadV/CS5830 A6

Sample Input and Output:



