

PROJECT DESIGN PHASE - II

Date	09 November 2022
Team ID	PNT2022TMID22106
Project Title	A Novel Method for Handwritten Digit Recognition System

DATA FLOW DIAGRAM

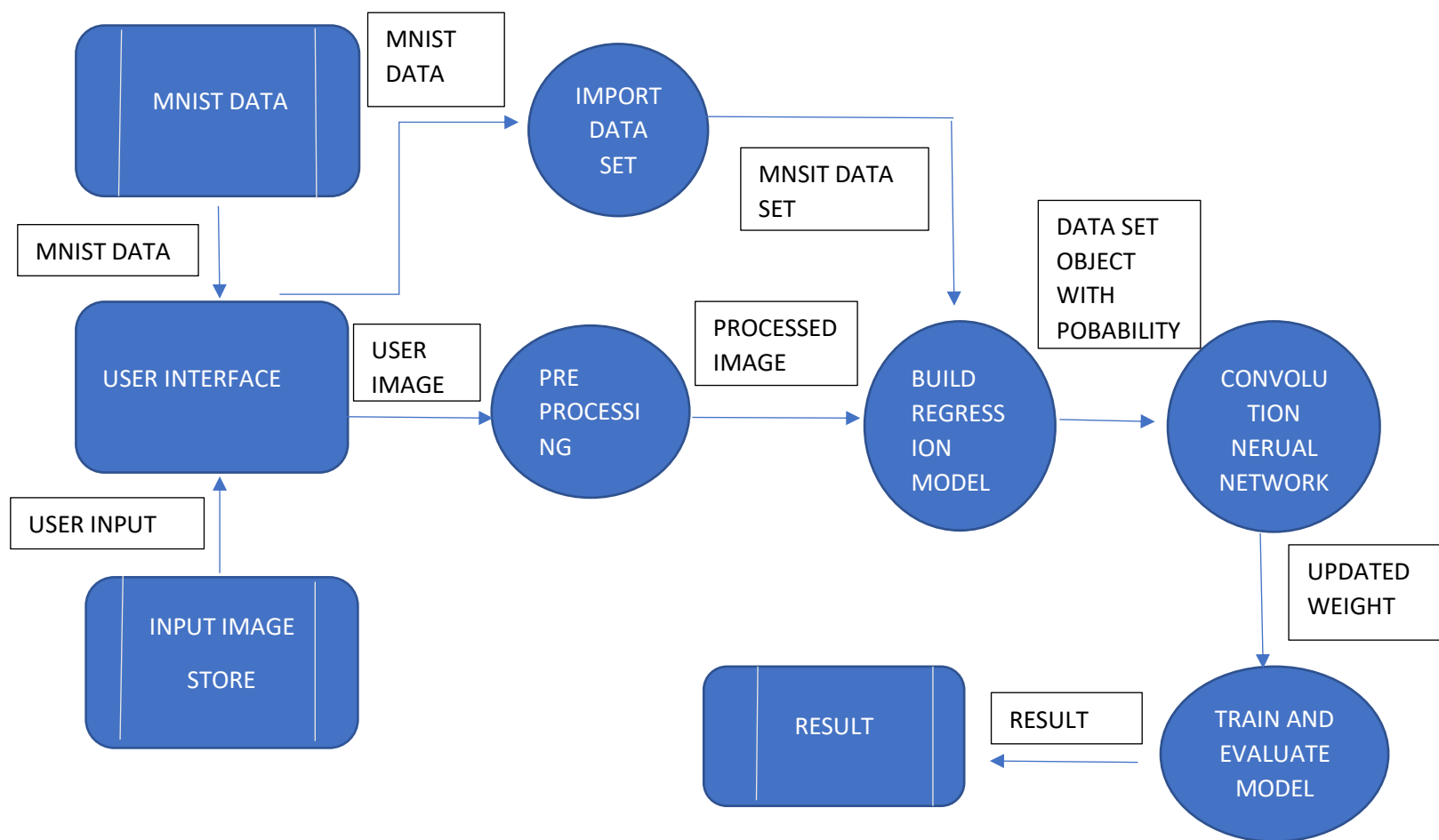
A Data Flow Diagram (DFD) is a conventional visible illustration of the records flows within a machine. A neat and clean DFD can depict the proper quantity of the machine requirement graphically. It suggests how statistics enters and leaves the machine, what modifications the records, and wherein statistics is stored.

DFD Level-0

Level DFD-0 includes two external entities, the user interface and output, as well as a process that represents the CNN for digit recognition. The output is obtained after processing.

DFD Level-1

Level DFD-1 consists of 2 external entities, a GUI and an output, along with five process blocks and 2 MNIST datastores and input image stores, representing CNN's internal workings for the System. number identification. Block the process of importing MNIST data from the library. The processing block imports the image, processes it, and sends it to the block where the regression model is built. It sends probabilistic objects to the CNN where the weights are updated and some classes are constructed. Block training and model evaluation to produce outputs.



DFD Level-2

The DFD Level-2 for import data (figure 4) consists of two external data and one entity UI along with three process blocks, representing the three functionalities of the CNN for Digit Recognition System. It imports data from MNIST data store and stores on the system.

