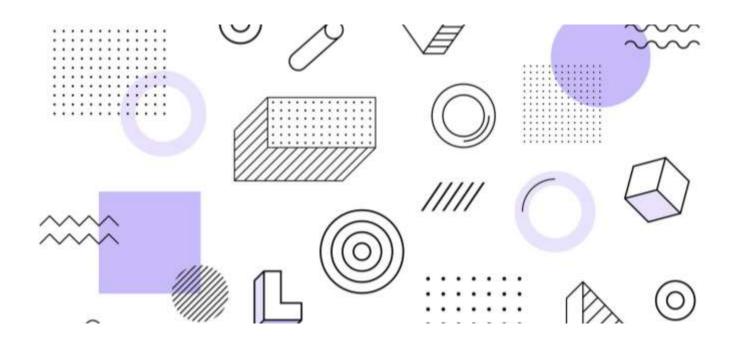
# Hand drawn Multi Digits Recognition



Prepared by **Mohamed Suhaib** 

#### **Problem Statement**

The goal of this hackathon is to use neural networks and computer vision to predict hand drawn digits. This means you have to create a drawing canvas to draw digits and identify/predict what are the digits drawn.



## Scope of this project

- You'll be using the MNIST digits Dataset from keras library. The dataset contains hand written digits images:
- ☐ MNIST is a collection of handwritten digits ranging from the number 0 to 9.
- 🛘 It has a training set of 60,000 images, and 10,000 test images that are classified into corresponding categories or labels.
- To use the MNIST dataset in Keras, an API is provided to download and extract images and labels automatically (refer below statements).
- from keras.datasets import mnist
- mnist.load\_data()

#### Data set provided

- Training set 60000
- Test dataset 10000

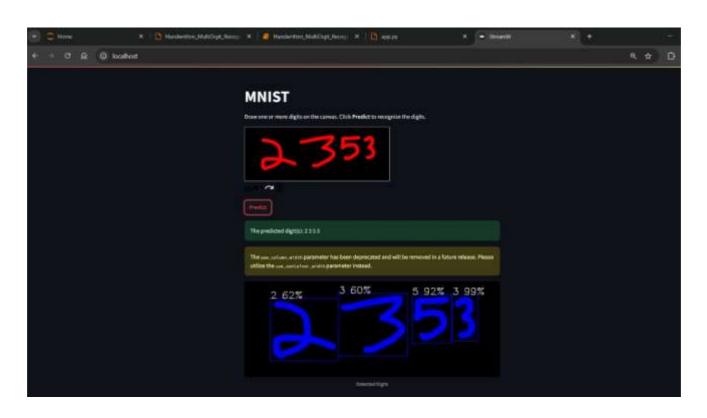
### **Prediction1:**



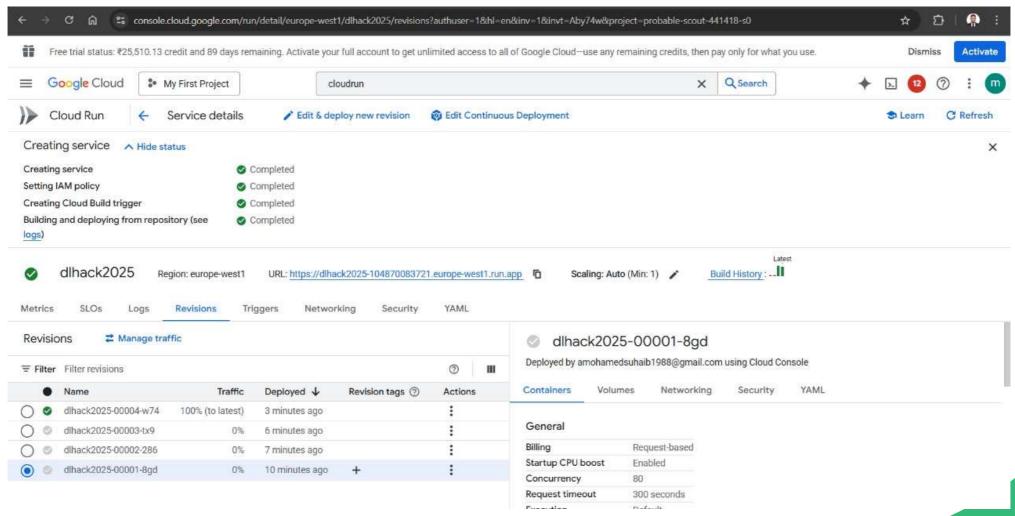
#### **Prediction2:**



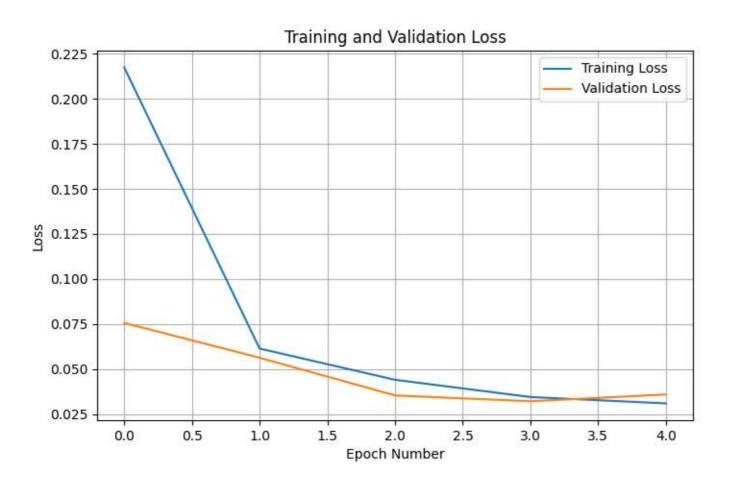
# **Prediction Using Docker Build:**



# Cloudrun Deployment: URL: https://dhack2025-104870083721.Europe-west1.run.app



# **Training and Validation Loss:**



# **Training and Validation Accuracy**

