## Real time Digit Recognition using Web Camera CMPE – 258 Deep Learning Swayam Swaroop Mishra ID - 013725595

## Read Me -

- 1. Files
  - a. web cam roi.py
  - b. model under test.h5
- 2. Requirements
  - a. Web Camera
  - b. Python Version 3.7.6
  - c. Numpy
  - d. OpenCv
  - e. Keras
  - f. Tesnsorflow
- 3. Steps to run digit recognition
  - a. Download both the files into the same directory.
  - b. In the terminal type:
    - i. If having more than two python version installed in your system (Mac Users) python3 web\_cam\_roi.py
    - ii. If having only python 3 installed python web\_cam\_roi.py
  - c. Show any handwritten digits of any length for in the ROI (Green Colored region) for digit recognition.

## References -

- 1. Loading trained model Harry Li OpenCv.
- 2. Creating Region of Interest on web camera display <u>Creating a simple Region of Interest</u> (ROI) inside a video streaming using OpenCV in Python.
- 3. Bounding Rectangle for Image Localization <u>Digit Recognition using OpenCV, sklearn</u> and <u>Python.</u>