

Title of the project:

Multi-Label Object Recognition in Images

Problem definition:

Given an image containing several handwritten digits, correctly identify the digits present within the image.

What dataset will be used:

Multidigit MNIST (M2NIST)

How will you solve this problem:

I will solve this problem by implementing AlexNet, ResNet and a custom convolutional neural network architecture to solve the problem.

What will be your contribution:

My contribution will be the custom convolutional neural network architecture and a discussion and analysis of the performance results between the observed architectures. My stretch goal will be to implement and train the AlexNet and ResNet architectures from scratch.