Capstone 2 – Deep Learning

Proposal 1 – Convolutional Neural Network for Crowd Counting

Leveraging an image dataset of a webcam in a mall, create a neural network to count the number of guests in the mall for a given image.

Application:

On a micro level, automating a crowd count could allow a mall to determine the busy periods of the year.

On a macro level, understanding how busy a mall is could be a proxy for the overall health of the retail economy in a given area.

Furthermore, a convolutional network with a well specified architecture could be applied to other crowd counting scenarios (ex. Political rallies, tourist attractions etc.)

Proposal 2 – Image Classification of species of flowers

Proposal 3 – Kaggle Competition (PLACEHOLDER)