

Daily Log

Monday, November 18

Continued testing of Keras Sequential model, compared to vanilla tensorflow model, experimented with different ways of setting up the network, either adding layers to the model one by one or initializing the full network at once.

Tuesday November 19

Ran tests on each model, Sequential model seems to be working the best in terms of ease of setup and efficiency. Results print pretty clearly from the keras/tensorflow API.

Thursday October 21

Finished up testing, determined that the Sequential model will work best for my project. Started research on specific numbers of nodes for each hidden layer, as well as number of layers.

Timeline

Date	Goal	Met
November 3-9	Determine based on previous results if NN needs to be restructured. If so, do it, if not, start to build accuracy of NN.	Yes, partially, don't know if NN needs to be restructured for certain, but based on current results everything looks fine.
November 10-16	Continue training NN on laptop, verify that NN is working properly	Yes, playing around with different models now to see which works best for my project
November 17-23	After experimenting with different models, decide which one is best for project	Yes, decided on sequential model
November 24-30	Polish up network, begin training over the entire data set to get preliminary results.	
December 1-7	Continue training of network for preliminary results.	
Winter Goal	Application takes geographical area and type of disaster as inputs and is able to predict with 70-75 percent accuracy (based on Neural Network) the magnitude of people displaced.	

Reflection

This week I was able to successfully complete testing in order to determine which model would fit best for my project. I ended up going with the Keras.Sequential model due to ease of setup and efficiency as well as clearness of results on the front end. In the following weeks I will be able to begin testing with the Sequential model over the entire data set to get preliminary results and work from there.