

## Daily Log

### Monday, November 11

Started playing around with other neural network configurations in tensorflow to see if anything works better than my current model. Came across keras sequential model which seems a bit simpler (in terms of setting up and modifying than my current, more explicitly coded model).

### Tuesday October 12

Researched and played around with Keras.Sequential() model, took a bit to understand even after completing their tutorial using an example dataset from MNIST, but I eventually understood it. Began modifying tutorial code to work with my dataset/model.

### Thursday October 14

Continued implementing Keras.Sequential() model in separate script from previous model. Finished everything except importing data for use within model, will need to complete this next week.

## Timeline

Date	Goal	Met
October 27- November 2	Begin training of Neural Network, just make sure it is starting to train correctly	Yes, neural network working as expected for limited epochs
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	
November 24-30	Polish up network, begin training over the entire dataset to get 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 start looking into some other ways to model Neural Networks using tensorflow. Specifically Keras' sequential model looked like it might work for my project, so I am currently working on modeling my network using this and seeing if it might be a better alternative to the more explicitly coded model I have currently. After testing multiple models using a limited amount of data (for efficiency purposes) I will be able to make a determination which works best for my project, and which I should use moving forward for the remainder of the year.