Scope:

The nonprofit foundation Alphabet Soup wants a tool that can help it select the applicants for funding with the best chance of success in their ventures. With your knowledge of machine learning and neural networks, you’ll use the features in the provided dataset to create a binary classifier that can predict whether applicants will be successful if funded by Alphabet Soup.

Summary:

After reading in the data provided by Alphabet Soup, I removed the unnecessary metrics of EIN and Name.

I used machine learning techniques to prepare and scale the data so a neural network could be built and used to determine the probability of success for future applicants.

My goal was to obtain 75% accuracy with the model. Unfortunately I was not able to obtain that through 5 iterations. I originally used 2 hidden layers and added a third with no improvement. The highest accuracy I was able to obtain with my model was 66.5%.

In order to further improve accuracy perhaps several layers should be considered or a change in the variables used.