**Overview:**

The purpose of this analysis was to create a model for the nonprofit foundation Alphabet Soup that would assist in selecting ventures for funding that had the best chance of success.

**Results:**

* **Data Preprocessing:**
  + The target variable for this model was the “IS\_SUCCESSFUL” variable
  + The feature variables for this model were the “INCOME\_AMT” and the “ASK\_AMT” variables as well as the classification and application type
  + The only two variables that were removed were the EIN and Name variables as they were only non-beneficial ID variables
* **Compiling, Training, and Evaluating the Model:**
  + For my neural network model, I used an extra hidden layer aside from the first one and the output layer. For the first two layers, I used the ReLU activation function with 8 and 6 neurons respectively. The output layer used the sigmoid activation function with only 1 neuron.
  + I was not able to achieve the target model performance
  + My attempts to increase the model’s performance included adding an extra neuron to the first two layers as my first attempt and then my second attempt involved increasing the neuron count for the first two layers up to 10.

**Summary:**

The model was around 72% accurate overall in predicting successful ventures. I think using a model with less input and outputs might help in terms of improving the accuracy.