**Marvina’s Neural Network Model Report – Charity Model**

1. The purpose of this charity analysis is to predict which companies will use the AlphabetSoup funding the best. And what is the likelihood funding will make the business successful.

* Data Preprocessing
  + The target variable for my model was the column “IS\_SUCCESSFUL”
  + The feature variables for my model were all the columns except the “IS\_SUCCESSFUL” one?
  + If I were to re-preprocess my data and re-train and re-test my data, I would remove the AFFILIATION, USE-CASE, ORGANIZATION columns from the input data because they weren’t targets and as features, I don’t believe they added any value to my overall analysis.
* Compiling, Training, and Evaluating the Model
  + I used 80 neurons for the first layer, 30 neurons for the second layer and only 1 neuron for the outer layer. For the first and second layers, I used the rectified linear RELU activation function because the data was positive.
  + I was not able to optimize my model to achieve a target predictive accuracy higher than 75% on my first attempt.
  + For my second attempt, I removed additional columns from my dataset, since I had already determined they didn’t add any value.