Deep Learning Challenge Analysis

Overview:

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. Using our knowledge of machine learning and neural networks, we'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.

Results/Summary:

After dropping the identification columns, the rest were considered the feature variables. The training and testing datasets were created, with IS_SUCCESSFUL as the target variable. The model was defined with two hidden layers with hidden nodes of 7, 14, 21. Activation functions 'relu' and 'sigmoid' was used. My original model gave me an accuracy of 0.729. To improve this accuracy, I included the 'NAME' column which increased to 0.788.