Deep learning Analysis

This assignment had for purpose to The nonprofit foundation Alphabet Soup with a tool that can facilitate the process of selecting the applicants for funding with the best chance of success in their ventures

Using the knowledge of machine learning and neural networks that we acquired in class, we had to 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.

In the first model we preprocessed the data and dropping the NAME and EIN columns, Determine the number of unique values for each column. I split, tested, and trained the datasets by setting the epochs to 100 and then evaluated the model to determine its accuracy which was at 0.7269970774650574

We wanted to to achieve a target predictive accuracy higher than 75%. We split, tested, and trained the dataset and added an additional hidden layer to gain more accuracy with this model. We trained the model with 30 epochs and when we evaluated the accuracy the. Data set seems to show a higher accuracy than 75% but the summary does not show the same results