Challenge-21 Report

Overview:

The purpose of this analysis is to talk about the details of the deep learning model to potentially discover ways to optimize it further.

Results:

\*The target for our model was the “IS\_SUCCESSFUL” column.

\*The features for our model was every other column in the df.

\*The variables that should be removed from the input data because they are neither targets or features are the “NAME” column and the “EIN” column.

\*I used 4 total layers with neurons as follows: 128, 64, 32, 1.

\*I was not able to achieve the target model performance.

\* The three methods I tried to increase the accuracy score were to add an extra layer, increase the neurons, and change the epochs to prevent overfitting.

Summary:

To summarize, I had an accuracy score of 72.5%. To further optimize this score, potentially adding another layer and playing around with the number of neurons in each layer could result in a better score.