Overview:

The purpose of this analysis was to determine which funding would be successful using a ML algorithm.

Results:

- The target for the model was whether the funding IS_SUCCESFUL
- The variables that are considered to be the features are APPLICATION_TYPE, AFFILIATION, CLASSIFICATION, ORGANIZATION, USE_CASE, STATUS, INCOME_AMT, ASK_AMT.
- The variables that are neither targets nor features and should be removed is APPLICATION_TYPE AND CLASSIFICATION.
- I did 30 neurons for the first 4 layers and 50 neurons for the last 2 layers and I chose relu and sigmoid for my models networks.
- I was unfortunately not able to hit the target model but I did come closer.
- I tried increasing the amount of neurons, increasing the amount of layers, and increasing the epochs which overall did help the accuracy.

Summary:

Overall its ive learned that the more neurons and the more layers you have the better the accuracy of your model.