Neural Network Analysis

The purpose was to create a neural network that could predict if a venture would be successful and use the money provided effectively based on some various datapoints provided in the dataset.

- Variable target was IS_SUCCESSFUL
- Variable features were that were used were
    - APPLICATION_TYPE
    - AFFILIATION
    - CLASSIFICATION
    - USE_CASE
    - ORGANIZATION
    - STATUS
    - INCOME_AMT
    - SPECIAL_CONSIDERATIONS
    - ASK_AMT
- Removed features
    - EIN
    - NAME

Model

- There were 1 layer with 9 neurons using relu
- I was just under the target performance by only a couple percentage points despite trying multiple methods
    - The one method that was really beneficial was to only scale the ASK_AMT column
    - I also tried all the different activations and several different layer numbers and neurons both lower and higher that did not have much effect