1. **Overview** of the analysis:
   * Alphabet Soup wants a tool that can help it select the applicants for funding with the best chance of success in their ventures.
2. **Results**:

* Data Preprocessing
  + What variable(s) are the target(s) for your model?
    - In this case we will use “IS\_SUCCESSFUL” variable as our target it is the main indicator to see if the money will be use effectively after applying our model
  + These variables will be used:
    - **APPLICATION\_TYPE**
    - **AFFILIATION**
    - **CLASSIFICATION**
    - **USE\_CASE**
    - **ORGANIZATION**
    - **STATUS**
    - **INCOME\_AMT**
    - **SPECIAL\_CONSIDERATIONS**
    - **ASK\_AMT**
  + What variable(s) should be removed from the input data because they are neither targets nor features?
    - I will remove “EIN” and “NAME”
  + Were you able to achieve the target model performance?
    - No, I have 72% accuracy which is close to the target result 75%
  + What steps did you take in your attempts to increase model performance?
    - I will attempt to:
    - Adjust the input data to ensure that no variables or outliers are causing confusion in the model, such as:
    - Dropping more or fewer columns.
    - Creating more bins for rare occurrences in columns.
    - Increasing or decreasing the number of values for each bin.
    - Add more neurons to a hidden layer.
    - Add more hidden layers.
    - Use different activation functions for the hidden layers.
    - Add or reduce the number of epochs to the training regimen.

1. **Summary**:
   1. After various attempt, I still could not get/achieved the targeted results (75%). The only steps that I can do is “dropping more or fewer columns” as the model keep crashing on me when I compile the result. I reckon if we bring back column “NAME” into the model, it can classify information and give out better accuracy.
   2. I would recommend to using Keras Tuner library to try to further optimize your model and get better accuracy score.