1. **Overview** of the analysis: Explain the purpose of this analysis.

This analysis was using deep learning to analyze over 34000 organizations that received funding from Alphabet Soup. The aim of the model is to determine which applicants have the highest chances of success, which would help Alphabet Soup determine the best organizations to give funding.

1. **Results**: Using bulleted lists and images to support your answers, address the following questions:

* Data Preprocessing
  + What variable(s) are the target(s) for your model?

The target variable I chose was IS\_SUCCESSFUL.

* + What variable(s) are the features for your model?

I used the rest of the columns in the table as features in the model, except EIN and NAME which were removed as part of the data cleaning process. The remaining feature columns were APPLICATION\_TYPE, AFFILIATION, CLASSIFICATION, USE\_CASE, ORGANIZATION, STATUS, INCOME\_AMT, SPECIAL\_CONSIDERATIONS, and ASK\_AMT.

* + What variable(s) should be removed from the input data because they are neither targets nor features?

EIN and NAME should and were removed from the input data because they only contain identifying information and would not help the model make predictions.

* Compiling, Training, and Evaluating the Model
  + How many neurons, layers, and activation functions did you select for your neural network model, and why?

I had 2 layers, four nodes in the first layer, and eight nodes in the second layer.

* + Were you able to achieve the target model performance?

No, I was not able to get the model to at least 75% accuracy. The closest I got was 74%.

* + What steps did you take in your attempts to increase model performance?

I changed the number of nodes in the layers and changed the number of training epochs. Moving these values around helped but not enough.

1. **Summary**: Summarize the overall results of the deep learning model. Include a recommendation for how a different model could solve this classification problem, and then explain your recommendation.

The deep learning model was ok but it can be better. One way to improve this classification problem might be to use a different number of nodes and/or layers, as well as changing the number of epochs so the data is not overfit.