**Module 21 Write up**

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

The purpose of this analysis was to determine applicants that would have the best chance of success if given 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?
    - Target variable is the IS\_SUCCESSFUL column.
  + What variable(s) are the features for your model?
    - All other columns that are not IS\_SUCCESSFUL.
  + What variable(s) should be removed from the input data because they are neither targets nor features?
    - Both the EIN and the NAME columns were dropped from the data.
* Compiling, Training, and Evaluating the Model
  + How many neurons, layers, and activation functions did you select for your neural network model, and why?
    - The first attempt I used 8 hidden layers in the 1st, and 5 hidden layers in the second. They were just random numbers I chose.
  + Were you able to achieve the target model performance?
    - I was not able to achieve the targeted 75% performance, even after 4 attempts.
  + What steps did you take in your attempts to increase model performance?
    - I added more layers, added and removed hidden nodes, changed the amount of epochs trying to get additional accuracy.

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.

This deep learning model was around 73% accurate in predicting. I would not recommend using any of these models to solve this problem. It could be possible to have a higher accuracy in the model if additional data clean up, activation functions and just taking the time to iterate until higher accuracy was reached.