Summary Report for Neural Network Deep Learning

**Overview**

The purpose of this analysis is to utilize neural network deep learning to help Alphabet Soup’s business team to predict which applicants will be successful if funds are granted.

**Results**

Data processing includes data cleaning by dropping two undesired columns, EIN and NAME since both are not crucial in deep learning as both columns are just names and IDs. IS\_SUCCESSFUL is identified as target since this is the indicator of whether the applicants will be using fund effectively. After excluding EIN, NAME and IS\_SUCCESSFUL, the rest of the columns become features. Each layer is comprised of 16 neurons to provide the optimal simulation. It looks like an optimized model performance was achieved.

**Summary**

With Loss of 0.5578 and Accuracy of 0.73, it seems to be reasonable.