

Analysis

- **Overview:**
 - This project tasked us with reviewing data for a fictional nonprofit foundation Alphabet Soup. This company wants a tool that can help it select the applicants for funding with the best chance of success in their ventures. With our knowledge of machine learning and neural networks, we used the features in the provided dataset to create a binary classifier that can predict whether applicants will be successful if funded by Alphabet Soup.
- **Results:**
 - **Data Preprocessing:**
 - An “X” and “y” variable were created to identify our features and target arrays. In addition, EIN and Name columns were correctly removed as instructed for this dataset.
 - **Compiling, Training, and Evaluating the Model**
 - The initial attempt for the Neural Network was set to two initial layers. Our optimization attempt included two additional layers; however, the desired accuracy of 75% could not be obtained. The final accuracy obtained was 73.43%.
- **Summary:**
 - The existing layers within the optimization attempt would need additional fine tuning to reach the desired accuracy output of 75%.