Nueral Network Model Report

Overview

This analysis is meant to assist the nonprofit foundation Alphabet Soup in identifying the applicants for funding, with the highest chance of success in their projects.

Data Preprocessing
I read the csv provided in pandas

Target:
I identified **IS_SUCCESSFUL as the target.**

Features:
The following listed below were the features.
- **APPLICATION_TYPE**
- **AFFILIATION**
- **CLASSIFICATION**
- **USE_CASE**
- **ORGANIZATION**
- **STATUS**—
- **INCOME_AMT**
- **SPECIAL_CONSIDERATIONS**—
- **ASK_AMT**—

Removed the following variables from the input data
- **EIN** and **NAME**

Compiling,Training and Evaluating the Model.
 I was supposed to achieve a target predictive accuracy higher than 75%. I used 3 layers and was not able to achieve the target
Activation functions used were relu and sigmoid. The steps I took were changing the number of nuerons in multiples of 9 and 8, creating more bins for rare occurrences in columns.

Summary
I made three attempts which failed to achieve the required target. The results where only 72.7% so I recommend using a different model to achieve the desired result of 75%.