Module 21 HW

Overview

The assignment wants us to create an algorithm that will predict if funded applicants would turn out successful.

Results

We started by removing any irrelevant information from the datasets. We started by dropping EIN and NAME (I did add NAME back because we needed it for binning). I then split the data into training and testing formats. The model had a column named “IS\_SUCCESSFUL” that had values correcating to it (1 Succeful and 0 Unsccesful). I used some data points as a cutoff to bin “rare” variables together with the new value of “Other” for each unique value.

I used three layers for this model. Their were 3354 params that were generated for this medel and ended up giving us a 78% accuracy.

A screenshot of a computer

Description automatically generated

A screenshot of a computer code

Description automatically generated

Summary

The best method I used for optimizing the model is using multiple layers since it learns how to predict and classify information based on computer filtering inputs through the layers.