

The purpose of the analysis is to predict the rate of success of applicants who are funded by Alphabet Soup.

Target: is_successful

Features: application_type, affiliation, classification, use_case, organization, status, income_amt, special_considerations, ask_amt

Variables removed: ein, name

Hidden layers: 2

Neurons: 8, relu

Neurons: 5, relu

The accuracy could only reach about 72%. Even without optimizers, this is the best result I've got.

I tried to increase the model by deleting some columns. At least I know I cannot delete name column because by doing so lessens the accuracy. I also increased more bins.

It's still achievable because name can also be counted as a column of feature values. By binning the name's minimum value, we're able to achieve 80% of accuracy.

Maybe logistic regression and random forest classifier would be better suited to optimize results and achieve more accuracy since it requires less parameters to operate.