Overview

Using an AI model made by using Python and Tenser flow we were able to take a provided CSV about different charity classifications and compare them to which ones were successful and which ones were not. Using this new AI we have a high success rate at finding out which ones are a successful investment and which ones we should pass on.

* Data Preprocessing
  + What variable(s) are the target(s) for your model?

We used a cutoff value of 500 to make sure the classification had more than 500 different past ventures.

* + What variable(s) are the features for your model?

The features for the model are mainly Classification and Success.

* + What variable(s) should be removed from the input data because they are neither targets nor features?

EIN and Name are the only two that we removed when training the AI because they have no relevance to training the AI in the way we did it.

* Compiling, Training, and Evaluating the Model
  + How many neurons, layers, and activation functions did you select for your neural network model, and why?

To train the model we use 2 layers, for the activation function it’s we are using relu and we are using a sequential neuron. We are using all of these to hopefully be the most effective training.

* + Were you able to achieve the target model performance?

I was every training had a effectiveness of 91% which surpasses the 75% goal

* + What steps did you take in your attempts to increase model performance?

I tried adding another layer to increase performance but didn’t have any luck with it, after that I tried changing the limit capacity and I had mixed results with that and decided on 5,000 after that I also tried a sequential model which I did have more luck with.

Overall I believe this model was a success from the accuracy of the epoch being over 90% for every one of them Is a huge success. I do believe we will be able to predict possible successful investments in the future.