Alphabet Soup Challenge

# **Overview**

The goal of the project is to develop a model that can predict the successful use of funds provided by Alphabet Soup.

# **Results**

* Target: IS\_SUCCESSFUL
* Features: APPLICATION\_TYPE, AFFILIATION, CLASSIFICATION, USE\_CASE, ORGANIZATION STATUS, INCOME\_AMT, SPECIAL\_CONSIDERATIONS, ASK\_AMT
* I removed EIN, NAME because they are not categorical or number data that adds to the function.
* I used 25 neurons and 2 layers. I added neurons incrementally to try and increase accuracy.
* I was not able to hit the target performances I had dimensioning returns adding neurons maybe with more epochs it could improve but it came short of the 75% threshold.
* I would try more epochs and maybe try to clean the data better to improve accuracy.

# **Summary**

In summary the model fell short of successful. I would reevaluate the data and how it was cleaned. I would also like to talk to experts to get their insights on what features are less and more important to reduce noise in the model. I know from experience not all information is weighted differently when determining success.