Analysis

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Results:

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Model Performance:

After training the model for 100 epochs, it achieved the following performance on the test data:

* Loss: 0.565
* Accuracy: 0.729

Optimization Attempts:

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The efforts at optimization were quite unsuccessful, I tried experimenting with several strategies, including:

\* Removing and adding columns from the dataset, which only showed improvement when the "EIN" column was included which didn't make sense.

Adjusting how we group infrequent data occurrences in columns.

\* Changing the number of groups created for rare events in the data.

\* Adding more processing.

\* Increasing or decreasing the number of layers in the model.

\* Trying out different ways to make parts of the model "activate" or respond during learning.

Summary

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In summary, the deep learning model showed moderate accuracy in predicting the success of charitable donation applications, however there's still a sizable chance for error.

Optimization Photos

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A screen shot of a computer code

Description automatically generated

A screen shot of a computer code

Description automatically generated