After reprocessing, compiling, Training, and evaluating the model, I began optimizing the optimization. The first run had no changes to the numbers provided in the code:

Run 1 (Initial Run)

Layer (type) Output Shape Param # Accuracy Loss

dense (None, 80) 3520

dense\_1 (None, 30) 2430

dense\_2 (None, 1) 31

Run 2 (Change in Shape)

Layer (type) Output Shape Param # Accuracy Loss

dense (None, 55) 3520

dense\_1 (None, 55) 2430

dense\_2 (None, 1) 31

Run 3 (Accuracy Achievement)

Layer (type) Output Shape Param # Accuracy Loss

dense (None, 55) 3520

dense\_1 (None, 55) 2430

dense\_2 (None, 1) 31