**LOG FILE**

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| **Experiment Number** | **Parameters Chosen** | **Results** |
| 1 | input neurons = 10  output neurons = 1  num neurons = 15  num epochs = 10  learning rate = 0.05 | Train/Test Split = 80:20  Size of dataset = 4536  Training RMSE = 0.0388  Test RMSE = 0.0287  Train R2 = 0.9984  Test R2 = 0.9991 |
| 2 | input neurons = 10  output neurons = 1  num neurons = 15  num epochs = 15  learning rate = 0.1 | Train/Test Split = 70:30  Size of dataset = 4536  Training RMSE = 0.0549  Test RMSE = 0.0484  Train R2 = 0.9969  Test R2 = 0.9976 |
| 3 | input neurons = 10  output neurons = 1  num neurons = 15  num epochs = 5  learning rate = 0.9 | Train/Test Split = 70:30  Size of dataset = 4536  Training RMSE = 0.096  Test RMSE = 0.095  Train R2 = 0.9905  Test R2 = 0.9907 |
| 4 | input neurons = 5  output neurons = 1  num neurons = 15  num epochs = 10  learning rate = 0.5 | Train/Test Split = 60:40  Size of dataset = 4536  Training RMSE = 0.0386  Test RMSE = 0.0487  Train R2 = 0.9985  Test R2 = 0.9976 |
| 5 | input neurons = 5  output neurons = 1  num neurons = 8  num epochs = 10  learning rate = 0.01 | Train/Test Split = 90:10  Size of dataset = 4536  Training RMSE = 0.034  Test RMSE = 0.027  Train R2 = 0.9987  Test R2 = 0.9992 |