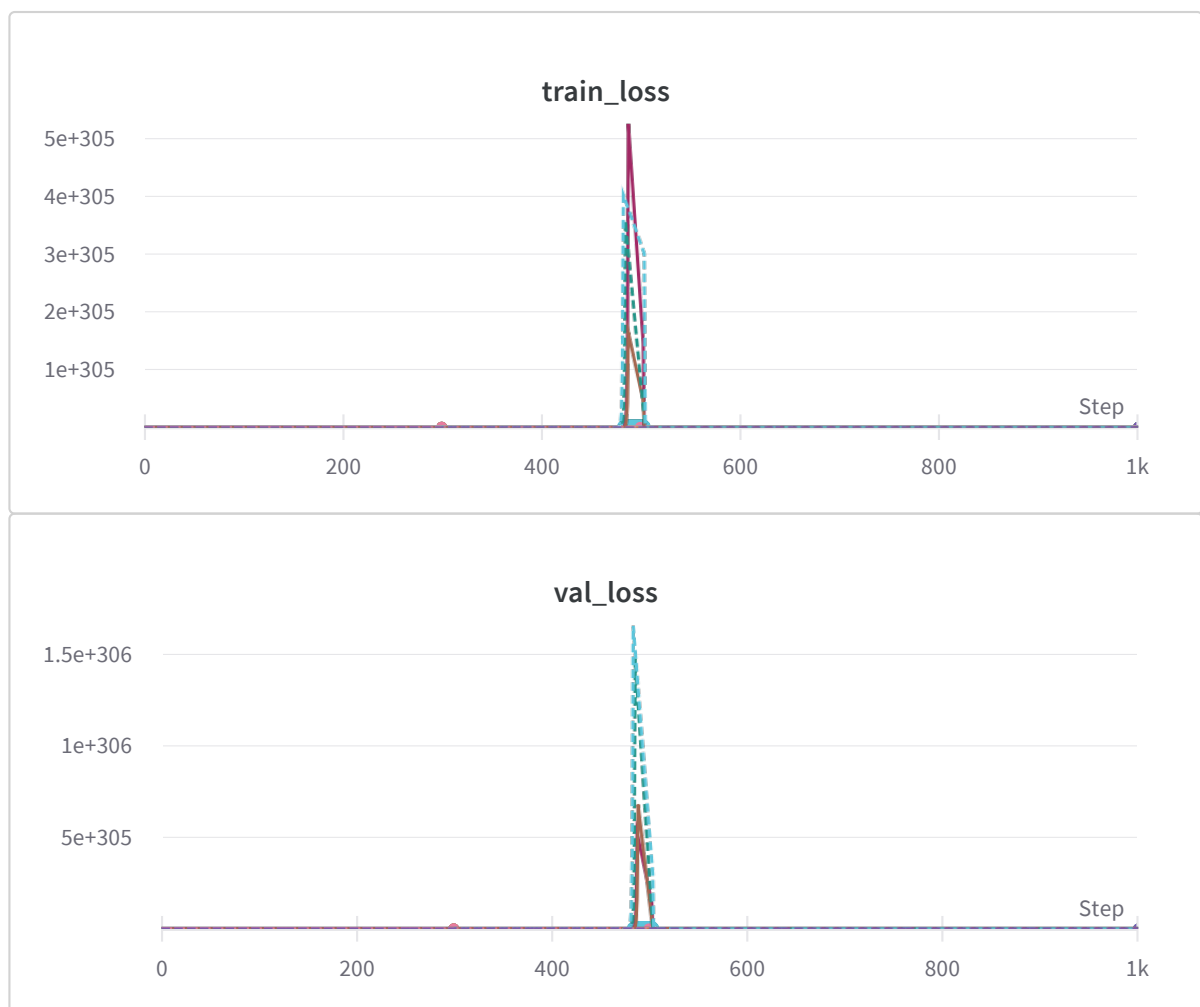Share   💬 **Comment**   ☆ **Star**   ∘∘∘

Multilayer Perceptron Regression

SMAI - Assignment 3

Ashna Dua

Plots

The lowest validation loss achieved is 12.49, and it stabilitizes around the same value. Even if starting from a very high value of loss, it

eventually stabilizes.

The hyper-parameters are:

- Optimizer: Mini Batch
- Activation: Relu
- Epochs: 500
- Learning Rate: 0.001

Metrics Achieved for these hyper parameters are:

- Training loss: 8.525
- Validation loss: 12.49

Validation Scores are as follows:

Mean Absolute Error (MAE): 2.98752522687801

Mean Squared Error (MSE): 19.525374199151482

R-squared (R^2 score): 0.7031082192731379

Train Scores are as follows:

Mean Absolute Error (MAE): 3.0407715700152225

Mean Squared Error (MSE): 19.263904161139454

R-squared (R^2 score): 0.7756611977838943

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https://wandb.ai/ashna-dua/Multilayer%20Perceptron%20Regression/reports/Multilayer-Perceptron-Regression--Vmlldzo1NzU2NTI2