

# Part 3 - Multi Layer Perceptron Regression

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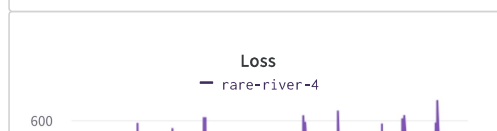
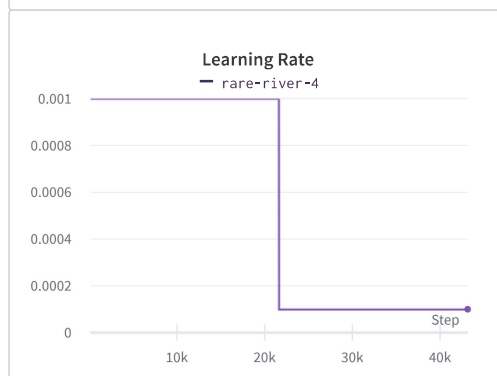
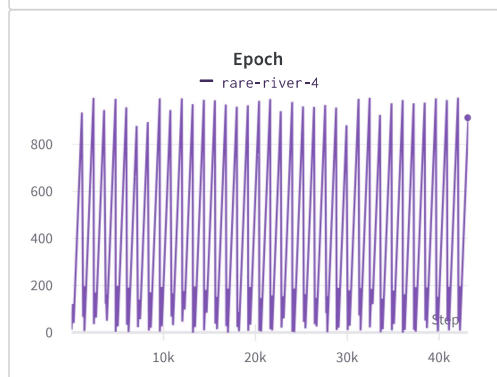
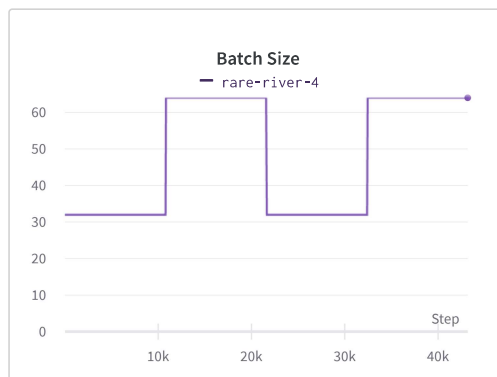
Harshit Aggarwal

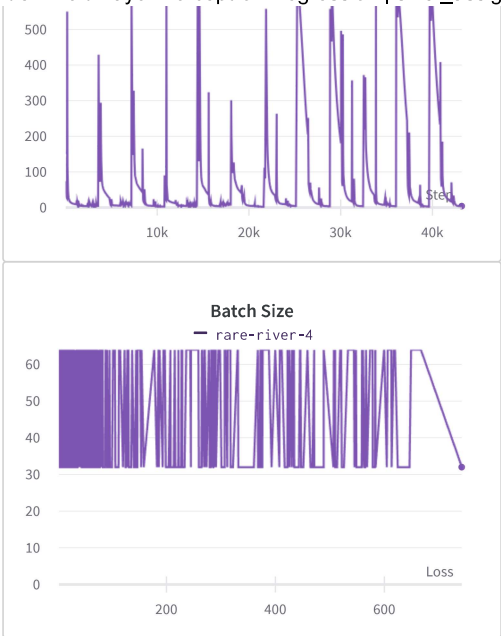
Here, we make multi layer perceptron regression and do hyperparameter tuning on the following parameters:

⋮

```
config.learning_rate = [0.001, 0.0001]
config.batch_size = [32, 64]
config.num_epochs = [200, 1000]
config.activation_functions = ['relu', 'tanh', 'sigmoid']
config.optimizers = ['batch', 'mini-batch', 'stochastic gradient des
```

Python ▾





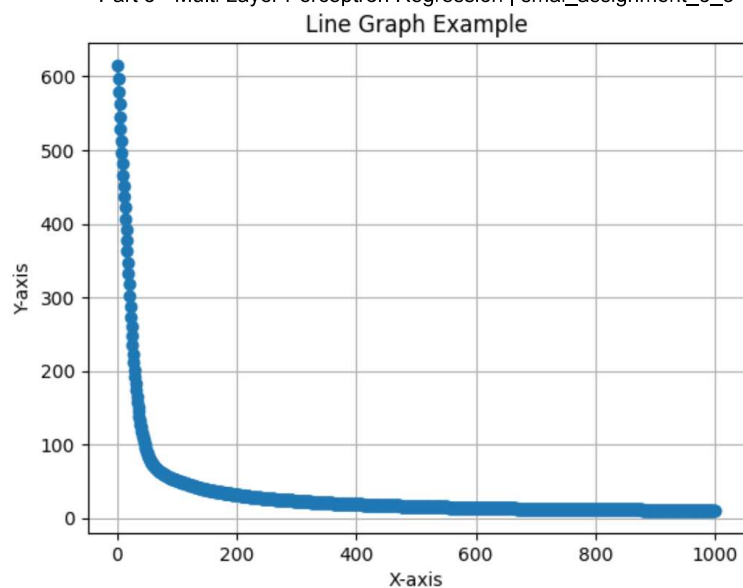
Import panel Add panel

☒ Run set 1

The best model comes out to be:

Activation_function	sigmoid
Batch Size	64
Epoch	999
Learning Rate	0.0001
Loss	4.02297
Optimizer	stochastic gradient descent

The loss curve looks like:



The regression looks like:

