

Part 2 - Multi Layer Perceptron Classification

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Harshit Aggarwal

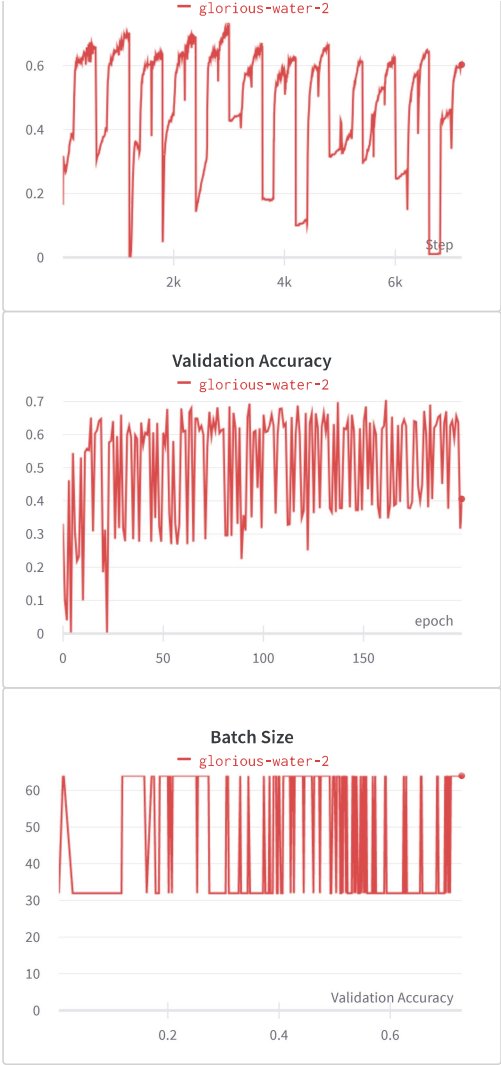
Here, we implement multi layer perceptron for classification and then on hyperparameter tuning on the following parameters.

```
config.learning_rate = [0.01, 0.001]
config.batch_size = [32, 64]
config.num_epochs = [200]
config.activation_functions = ['relu', 'tanh', 'sigmoid']
config.optimizers = ['batch', 'mini-batch', 'stochastic gradient des
```

The results for the same are:

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☒ Run set 1

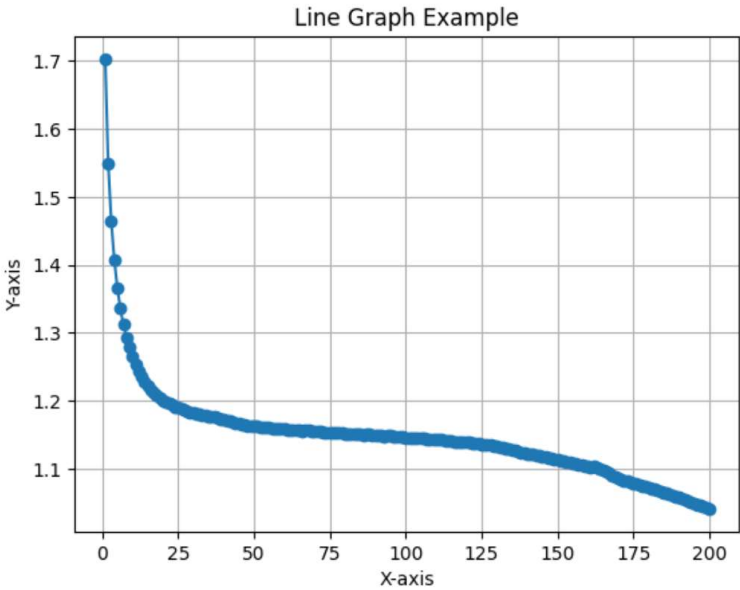
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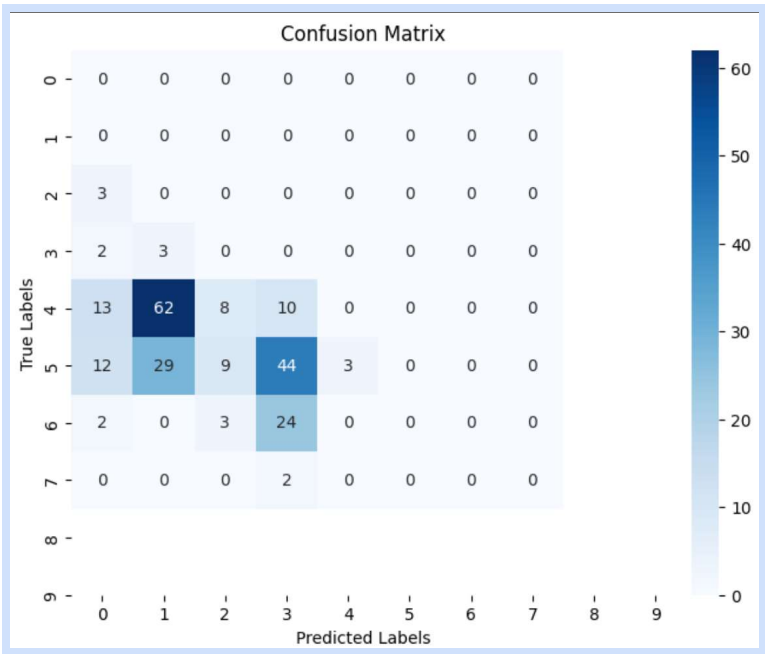
The best set of parameters are:

Activation_function	sigmoid
Batch Size	64
Learning Rate	0.001
Optimizer	stochastic gradient descent
Validation Accuracy	0.60292
epoch	199

The loss curve looks like:



The confusion matrix looks like:



Write a caption...