

# Part1 - Multinomial Logistic Regression

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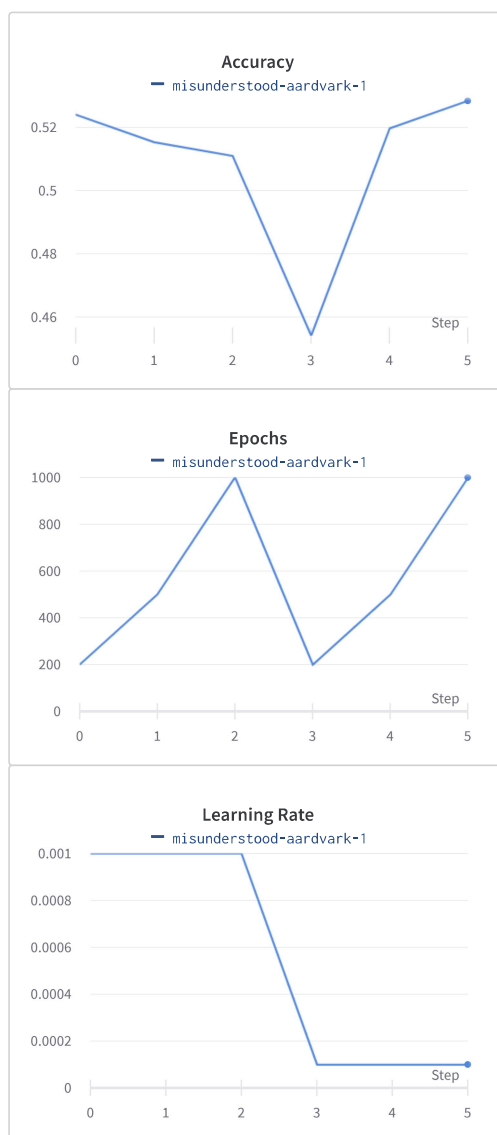
Harshit Aggarwal

In this part, we implement multinomial logistic regression from scratch and then perform hyperparameter tuning. The hyperparameter tuning is done on following parameters.

```
config.learning_rate = [0.001, 0.0001]  
config.num_epochs = [200, 500, 1000]
```

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The results for the same are given below.



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✓  
Run set 1

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The best set of parameters are:

Accuracy	0.52838
Epochs	1000
Learning Rate	0.0001