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Part 2 - Multi Layer Perceptron Multilabel Classification
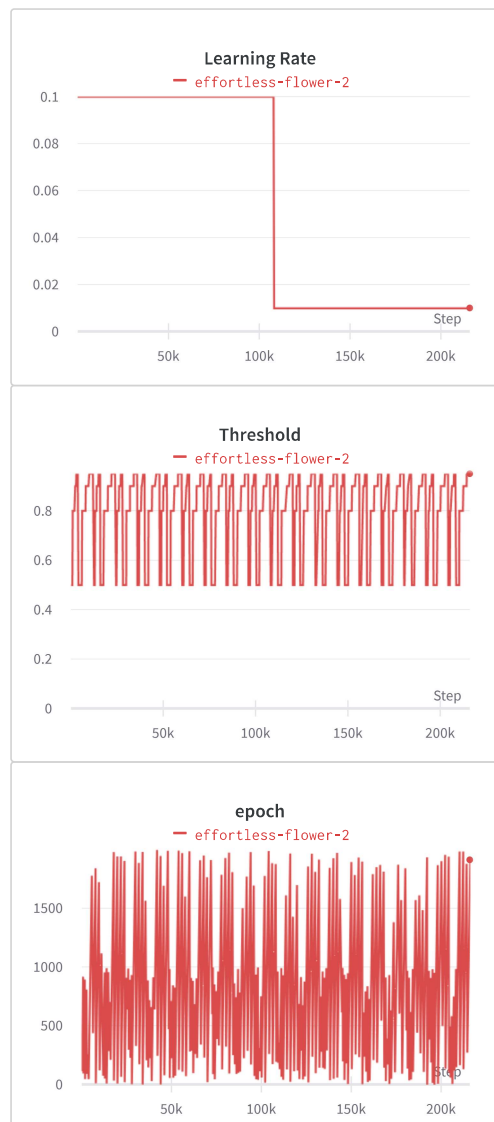
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Here, we implement multi layer perceptron multiclass classification model and do hyperparameter tunning for the following parameters:

```
config.learning_rate = [0.1, 0.01]
config.num_epochs = [1000, 2000]
config.activation_functions = ['relu', 'tanh', 'sigmoid']
config.optimizers = ['batch', 'mini-batch', 'stochastic gradient des
config.threshold = [0.5, 0.8, 0.9, 0.95]
```

The results for the same are as follows:

Validation Accuracy
— effortless-flower-2

Learning Rate
— effortless-flower-2

Threshold
— effortless-flower-2

epoch
— effortless-flower-2

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Run set 1

The best model comes out to be:

```
Activation_function      relu
Learning Rate    0.1
Optimizer        mini-batch
Threshold        0.95
Validation Accuracy      0.015
epoch    199
```

The confusion matrix looks like: