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Spring_2023_CS_747_Dee | CS747_DL_Assignment-1.ip | softmax.py | svm.py | perceptron.py

Code — Python 3 (ipykernel)

- We use the predict function to find the training accuracy as well as the testing accuracy

Train Softmax on CIFAR

[*]:
```
lr = 0.0005
n_epochs = 50
reg_const = 0.05

softmax_CIFAR = Softmax(n_class_CIFAR, lr, n_epochs, reg_const)
softmax_CIFAR.train(X_train_CIFAR, y_train_CIFAR)
```

[205]:
```
pred_softmax = softmax_CIFAR.predict(X_train_CIFAR)
print('The training accuracy is given by: %f' % (get_acc(pred_softmax, y_train_CIFAR)))
```

```
The training accuracy is given by: 31.902500
```

Validate Softmax on CIFAR

[206]:
```
pred_softmax = softmax_CIFAR.predict(X_val_CIFAR)
print('The validation accuracy is given by: %f' % (get_acc(pred_softmax, y_val_CIFAR)))
```

```
The validation accuracy is given by: 26.740000
```

Testing Softmax on CIFAR

Terminal 1

```
(base) adelalkhamisy@ADELs-iMac ~ %
```

Simple 1 0 Python 3 (ipykernel) | Busy — Mode: Command — Ln 1, Col 1 — CS747_DL_Assignment-1.ipynb