

EEP 596A
Computer Vision: Classical and Deep Methods
2025 Fall

Homework 4 Report

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Date: October 27, 2025

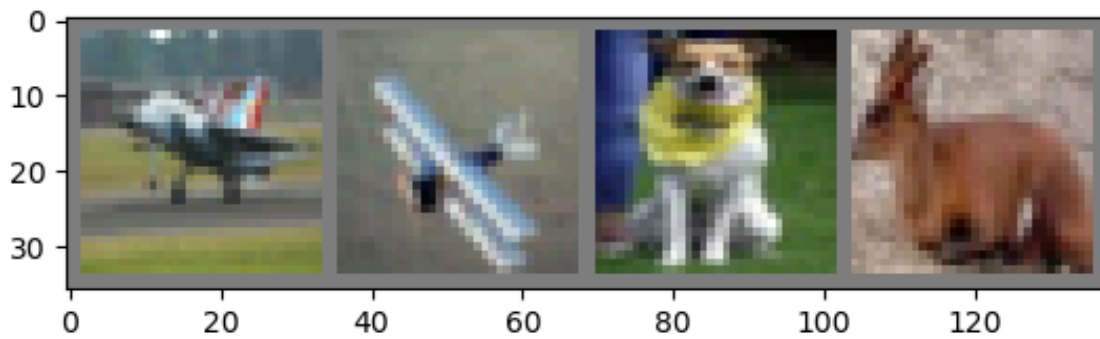
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Task 1 – CIFAR-10 dataset

num_train_batches: 5
num_test_batches: 1
num_img_per_batch: 10,000
num_train_img: 50,000
num_test_img: 10,000
size_batch_bytes: 30,730 KB

size_image_bytes: 3.072 KB
size_batchimage_bytes: 30,720 KB



Task 2 – Train classifier

```
(base) eric@ericdeMacBook-Pro homework4 % python Assignment4.py
```

```
[1, 2000] loss: 2.221
```

```
[1, 4000] loss: 1.917
```

```
[1, 6000] loss: 1.684
```

```
[1, 8000] loss: 1.582
```

```
[1, 10000] loss: 1.530
```

```
[1, 12000] loss: 1.464
```

```
[2, 2000] loss: 1.399
```

```
[2, 4000] loss: 1.372
```

```
[2, 6000] loss: 1.353
```

```
[2, 8000] loss: 1.355
```

```
[2, 10000] loss: 1.283
```

```
[2, 12000] loss: 1.279
```

```
Accuracy of the network on the 10000 test images: 54.7 %
```

Task 4 – Hyperparameter sweep

