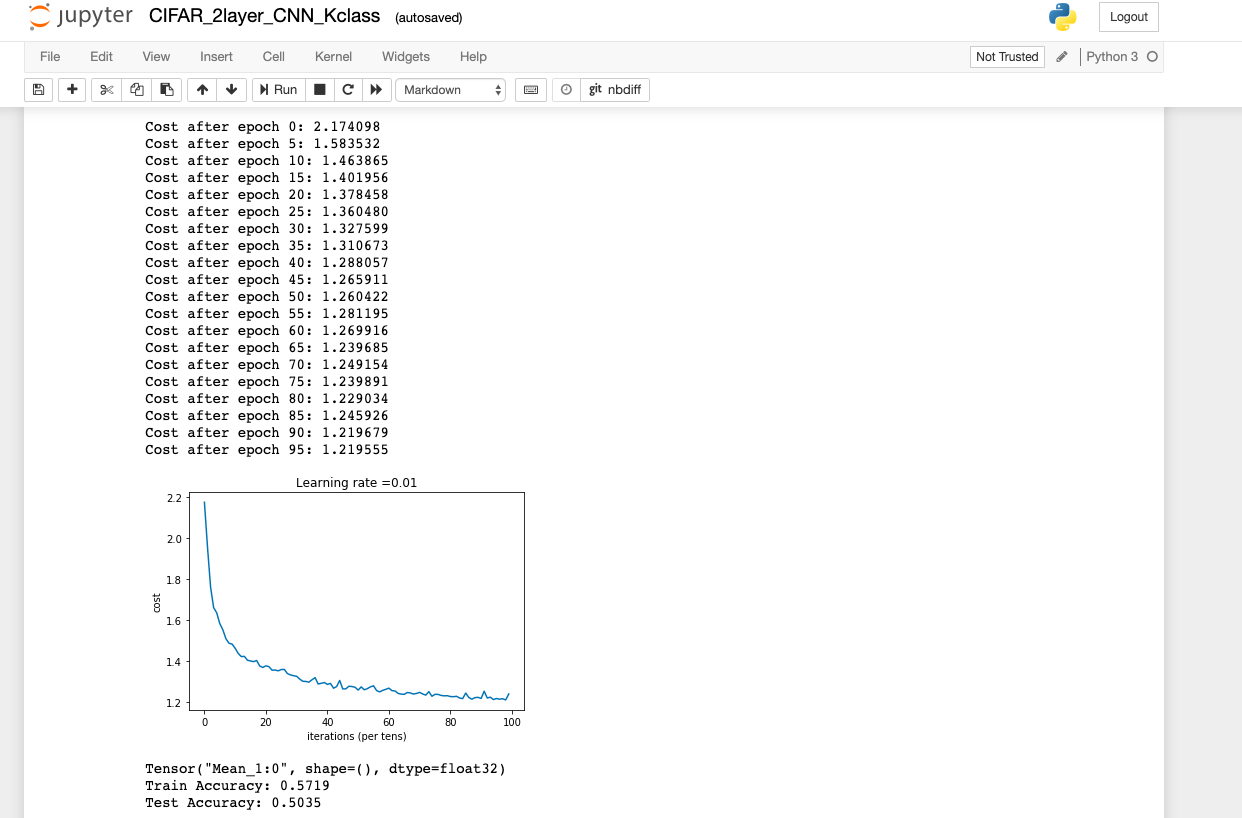
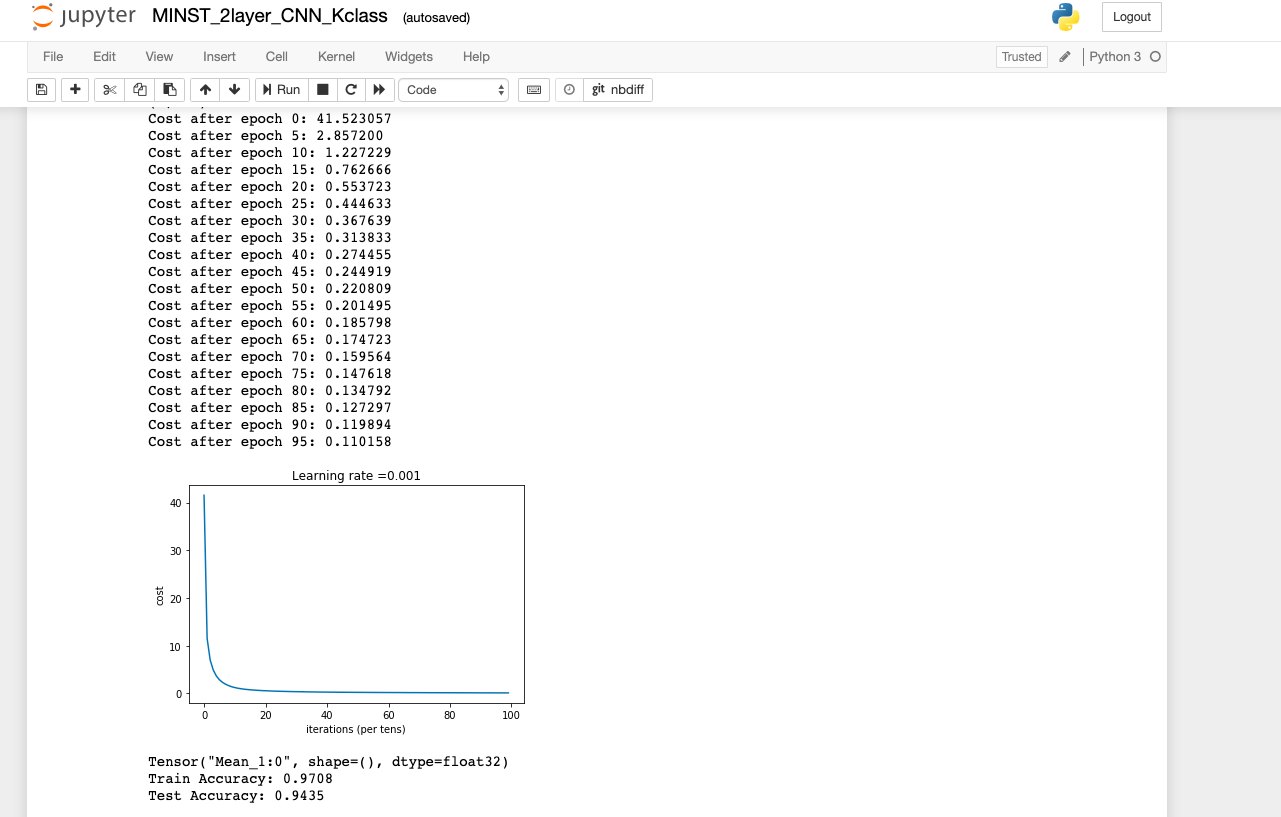
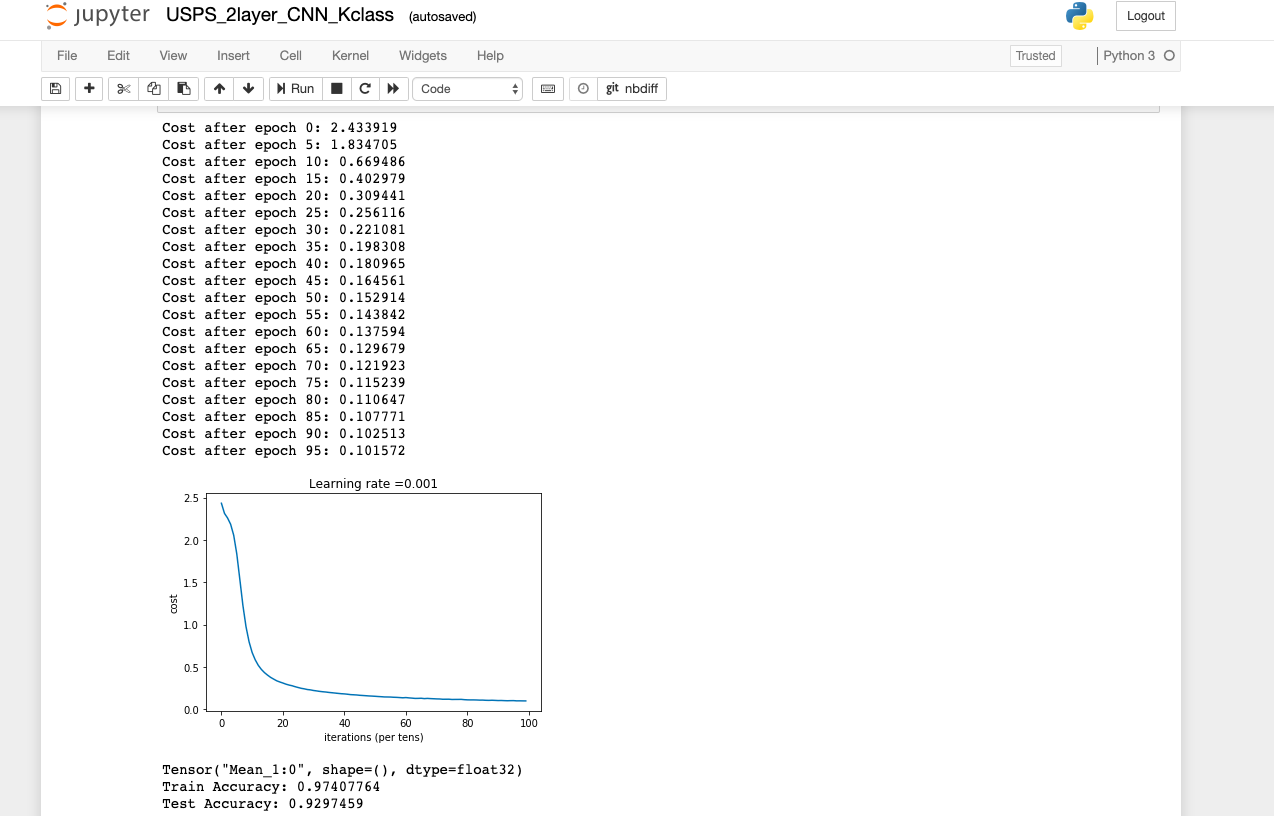
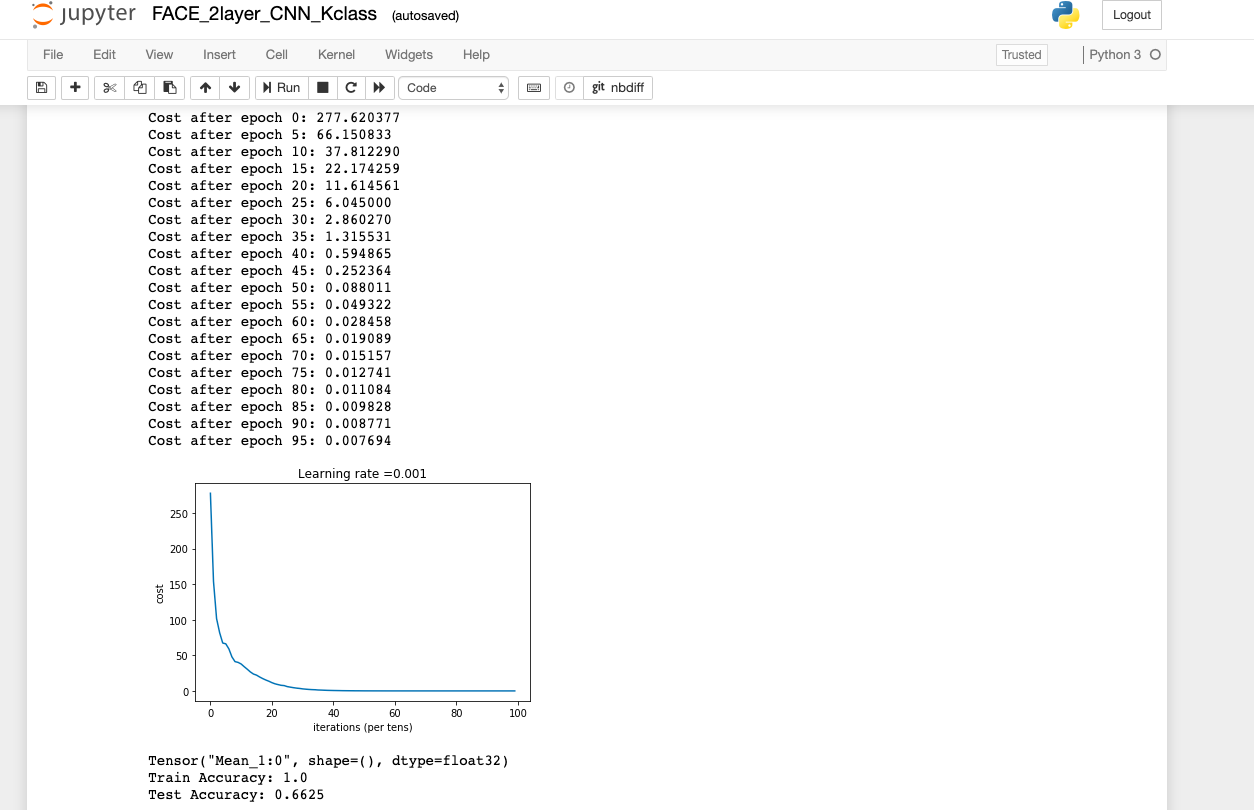
**Deliverable:**

1. **Url:** [**https://github.com/divyanshu25/BigDataSystems/tree/master/Assignment1**](https://github.com/divyanshu25/BigDataSystems/tree/master/Assignment1)
2. **ScreenShots**:

* **CIFAR Dataset:**
* **MINST Dataset:**
* **USPS DATASET:**
* **FACE DATASET**

****

3)  **Input Analysis**:

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| DataSet | Size | Resolution | 2 sample Images | Train, Test Split | #epochs | Min Batch Size | Error Threshold |
| CIFAR | 60,000 | 32\*32\*3 |  | 5000:1000 | 100 | 200 |  |
| USPS | 9,928 | 16\*16\*1 |  | 7291:2007 | 150 | 200 |  |
| MNIST | 70,000 | 28\*28\*1 |  | 10000:2000 | 100 | 200 |  |
| FACE | 400 | 112\*91\*1 |  | 320:80 | 100 | 20 |  |

**4) Output Analysis**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Dataset | Training Time | Training Accuracy | Testing Time | Testing Accuracy | Trained Model Size |
| CIFAR | 290.9 sec | 57.19% | 0.197 sec | 50.35% |  |
| USPS | 88.11 sec | 97.86% | 0.0613 sec | 93.37% |  |
| MNIST | 189.11 sec | 97.08% | 0.127sec | 94.35% |  |
| FACE | 86.26 sec | 100% | 0.130 sec | 77.5% |  |