**L1 Regularization:**

|  |  |  |
| --- | --- | --- |
| **Regularization Strength** | **Classification Error on test set** | **Number of 0s in learned weight vector** |
| 0 | 0.1028 | 8 |
| 0.0001 | 0.09813 | 8 |
| 0.001 | 0.09346 | 14 |
| 0.005 | 0.08879 | 17 |
| 0.01 | 0.07944 | 20 |
| 0.05 | 0.1028 | 33 |
| 0.1 | 0.135514 | 39 |

**L2 Regularization:**

|  |  |  |
| --- | --- | --- |
| **Regularization Strength** | **Classification Error on test set** | **Number of 0s in learned weight vector** |
| 0 | 0.1028 | 8 |
| 0.0001 | 0.1028 | 8 |
| 0.001 | 0.09346 | 8 |
| 0.005 | 0.09813 | 8 |
| 0.01 | 0.09813 | 8 |
| 0.05 | 0.1168 | 8 |
| 0.1 | 0.1215 | 8 |