Summary

**Table 1: Testing and training data**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dataset | Training Data (25%) | Testing Data (75%) | Features | Classes |
| Haberman | 76 | 230 | 3 | 2 |
| Iris | 36 | 114 | 4 | 3 |
| Survey | 46 | 119 | 10 | 5 |
| Wine | 43 | 129 | 13 | 3 |

**Table 2: Libsvm RBF cross validation and classification accuracy**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dataset | C |  | Cross Validation Accuracy | Classification Accuracy |
| Haberman | 8192.0 | 0.125 | 85.53% | (161/230) = 70% |
| Iris | 128.0 | 0.0078 | 97.22% | (109/114) = 95.6% |
| Survey | 2.0 | 0.125 | 50.0% | (56/139) = 40.3% |
| Wine | 2.0 | 0.5 | 93.02% | (126/129) = 97.7% |

**Table 3: Least-squares SVM**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Dataset |  |  |  |  |
| Haberman |  |  |  |  |
| Iris |  |  |  |  |
| Survey |  |  |  |  |
| Wine |  |  |  |  |

**Figure 1: Gnuplot of RBF cross validation**

|  |  |
| --- | --- |
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|  |  |