EE 559 Project

Classify Forest Cover

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**Tools**

Prtools description <Expand later>

**Baseline Performance Measure:**

Procedure:

To get the baseline performance measure, *qdc* classifier was used which is provided by prtools. 5 times 5-fold cross validation was performed to estimate the performance on the training set. \

Baseline performance data:

|  |  |  |
| --- | --- | --- |
| **Classifier** | **Average Error Rate** | **Standard Deviation** |
| qdc | 84.51 | 0.11 |

So we see that the baseline performance error rate is 84.51±0.11%. So the accuracy is 15.49±0.11%

Confusion Matrix is presented below:

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| True Labels | Estimated Labels | | | | | | | Totals |
| **1** | **2** | **3** | **4** | **5** | **6** | **7** |
| 1 | 0 | 0 | 204 | 324 | 0 | 0 | 12 | 540 |
| 2 | 0 | 0 | 113 | 421 | 0 | 0 | 6 | 540 |
| 3 | 0 | 0 | 3 | 537 | 0 | 0 | 0 | 540 |
| 4 | 0 | 0 | 1 | 539 | 0 | 0 | 0 | 540 |
| 5 | 0 | 0 | 27 | 513 | 0 | 0 | 0 | 540 |
| 6 | 0 | 0 | 0 | 540 | 0 | 0 | 0 | 540 |
| 7 | 0 | 0 | 410 | 89 | 0 | 0 | 41 | 540 |
| Totals | **0** | **0** | **758** | **2963** | **0** | **0** | **59** | **3780** |

Comment on the above results: