# Studio-2

## Decision Tree Classifier Summary

After performing the required actions to the data files and building 5 different models for a decisionTree classifier, we have the following results.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Iteration** | **Model 1** | **Model 2** | **Model 3** | **Model 4** | **Model 5** |
| 1 | 85.68% | 85.13% | 85.86% | 85.27% | 85.09% |
| 2 | 85.20% | 85.34% | 85.72% | 86.45% | 85.30% |
| 3 | 85.48% | 85.51% | 86.21% | 85.61% | 85.51% |
| 4 | 85.30% | 85.34% | 85.75% | 85.65% | 85.27% |
| 5 | 84.85% | 85.41% | 85.75% | 86.24% | 85.48% |

From what we can observe in this table Model 3 comes out as a clear winner in terms of accuracy, since it has consistently been at the highest accuracy for 4 out of my 5 test iterations. When it comes to the lowest accuracy model, it is a bit more difficult since both model 1 and 5 came out to be the ones with the lowest accuracy 2 times each within the 5 test iterations.