**For the dataset 1:**

Tree parameters:

|  |  |  |
| --- | --- | --- |
|  | Average Depth | Number of nodes |
| Tree constructed using ID3 | 8 | 264 |
| Tree constructed using random attributes selection | 9 | 925 |

Accuracy:

|  |  |  |
| --- | --- | --- |
| Number of nodes pruned | Accuracy of tree constructed with ID3 | Accuracy of tree constructed with random attribute selection |
| 0 | 0.7515 | 0.39 |
| 1 | 0.7505 | 0.378 |
| 2 | 0.7545 | 0.339 |
| 3 | 0.758 | 0.259 |
| 4 | 0.762 | 0.262 |

**For the dataset 2:**

Tree parameters:

|  |  |  |
| --- | --- | --- |
|  | Average Depth | Number of nodes |
| Tree constructed using ID3 | 8 | 298 |
| Tree constructed using random attributes selection | 9 | 954 |

Accuracy:

|  |  |  |
| --- | --- | --- |
| Number of nodes pruned | Accuracy of tree constructed with ID3 | Accuracy of tree constructed with random attribute selection |
| 0 | 0.745 | 0.263 |
| 1 | 0.753 | 0.357 |
| 2 | 0.762 | 0.435 |
| 3 | 0.76 | 0.432 |
| 4 | 0.758 | 0.31 |