**Databricks published notebook Link:**

<https://databricks-prod-cloudfront.cloud.databricks.com/public/4027ec902e239c93eaaa8714f173bcfc/4316818514119112/1906688140136181/3826498952961589/latest.html>

**Dataset Name:**  balance-scale.data

**Dataset Link:**

<http://archive.ics.uci.edu/ml/datasets/Balance+Scale>

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Number of Instances | Total number of attributes | Number of attributes used | Classification method | Parameters | Cross Validation Times | Metric1  Precision  Metrics for multilabel | Metric2  F1 Score |
| 625 | 4 | 4 | Decision Tree Classifier | maxBins and maxDepth | 5 | 0.7748416452067168 | 0.8066862408967672 |
| 625 | 4 | 4 | Random Forest Classifier | maxDepth,numTrees,maxBins | 5 | 0.7748416452067168 | 0.8066862408967672 |
| 625 | 4 | 1 (PCA) | Decision Tree Classifier | maxBins and maxDepth | 5 | 0.3258446039962153 | 0.3496403302568079 |
| 625 | 4 | 1 (PCA) | Random Forest Classifier | maxDepth,numTrees,maxBins | 5 | 0.31200106661333604 | 0.3301833122629582 |