**Analysis**

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| --- | --- | --- | --- |
| **Model** | **Before preprocessing** | **After preprocessing** | |
|  |  | **Continuize Discrete Variables** | **Select Random features** |
| **Tree** | 0.921 | 0.921 | 0.921 |
| **Naive Bayes** | 0.921 | 0.999 | 0.950 |
| **SVM** | 0.594 | 0.614 | 0.614 |
| **KNN** | 0.921 | 0.921 | 0.931 |
| **Neural Network** | 0.416 | 0.455 | 0.416 |

* From the above analysis,Naive Bayes has more accuracy.Before preprocessing Naïve Bayes has accuracy of 0.921.After applying preprocessing technique(continuize discrete variables) the accuracy is increased to 0.999.after applying select random features the accuracy is increased to 0.950.
* Therefore ,Naïve Bayes gives the best accuracy for classifying the animals based on their features.