|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Features | Age | Sex | cp | Trestbps | Chol | Fbs |
| Occurrence in the Highest Accuracy | 2 | 3 | 7 | 2 | 1 | 3 |
| Occurrence in the Highest F-measure | 2 | 6 | 6 | 3 | 1 | 5 |
| Occurrence in the Highest Precision | 3 | 3 | 7 | 4 | 2 | 2 |
| Total Number of Occurrence | 7 | 12 | 20 | 9 | 4 | 10 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Features | Restecg | Thalach | Exang | Oldpeak | Slope | ca | Thal |
| Occurrence in the Highest Accuracy | 4 | 4 | 6 | 3 | 3 | 7 | 7 |
| Occurrence in the Highest F-measure | 4 | 2 | 6 | 4 | 3 | 7 | 7 |
| Occurrence in the Highest Precision | 5 | 6 | 5 | 4 | 0 | 6 | 3 |
| Total Number of Occurrence | 13 | 12 | 17 | 11 | 6 | 20 | 17 |

Conclusion:

In paper sex, cp, Fbs, Restecg, Exang, Oldpeak, Slope, ca and Thal are identified as significant features (Totally 9 features) because all of them occur atleast 10 times.

But the result we got varies a little, it includes the features sex, cp, Fbs, Restecg, Thalach, Exang, Oldpeak, ca and Thal (9 features). Instead of Slope we got Thalach.

|  |  |
| --- | --- |
| Model | Avg Accuracy |
| Logestic Regression |  |
| Vote |  |
| Naive Bayes |  |
| SVM |  |
| Neural Network |  |
| Decision Tree |  |
| KNN |  |

|  |  |
| --- | --- |
| Model | Avg Precision |
| Vote |  |
| Naive Bayes |  |
| Logestic Regression |  |
| SVM |  |
| Decision Tree |  |
| Neural Network |  |
| KNN |  |
| Model | Avg Recall |
| SVM |  |
| Logestic Regression |  |
| Neural Network |  |
| Naive Bayes |  |
| Decision Tree |  |
| Vote |  |
| KNN |  |

|  |  |
| --- | --- |
| Model | Avg F1 score |
| Logestic Regression |  |
| SVM |  |
| Naive Bayes |  |
| Vote |  |
| Neural Network |  |
| Decision Tree |  |
| KNN |  |