|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Features | Age | Sex | cp | Trestbps | Chol | Fbs |
| Occurrence in the Highest Accuracy | 1 | 6 | 7 | 3 | 1 | 1 |
| Occurrence in the Highest F-measure | 0 | 6 | 7 | 3 | 1 | 3 |
| Occurrence in the Highest Precision | 1 | 7 | 7 | 3 | 0 | 2 |
| Total Number of Occurrence | 2 | 19 | 21 | 9 | 2 | 6 |

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| Features | Restecg | Thalach | Exang | Oldpeak | Slope | ca | Thal |
| Occurrence in the Highest Accuracy | 5 | 4 | 1 | 5 | 7 | 7 | 7 |
| Occurrence in the Highest F-measure | 4 | 4 | 1 | 7 | 5 | 7 | 7 |
| Occurrence in the Highest Precision | 3 | 1 | 0 | 2 | 4 | 3 | 4 |
| Total Number of Occurrence | 12 | 9 | 2 | 14 | 16 | 17 | 18 |

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 seven feature but not Fbs and Exang as they occur only 6 and 2 times respectively in our results.

|  |  |
| --- | --- |
| Model | Avg Accuracy |
| Logestic Regression | 77.56 |
| Vote | 77.35742 |
| Naive Bayes | 77.13502 |
| SVM | 77.12109 |
| Neural Network | 76.04639 |
| Decision Tree | 75.63714 |
| KNN | |  | | --- | | 64.6022 | |

|  |  |
| --- | --- |
| Model | Avg Precision |
| Vote | 80.42045 |
| Naive Bayes | 78.45576 |
| Logestic Regression | 78.18629 |
| SVM | 77.35385 |
| Decision Tree | 77.08104 |
| Neural Network | 76.88256 |
| KNN | 66.71397 |
| Model | Avg Recall |
| SVM | 83.28386 |
| Logestic Regression | 82.81767 |
| Neural Network | 81.78907 |
| Naive Bayes | 80.98117 |
| Decision Tree | 80.51643 |
| Vote | 78.27921 |
| KNN | 71.39785 |

|  |  |
| --- | --- |
| Model | Avg F1 score |
| Logestic Regression | 80.05616 |
| SVM | 79.82751 |
| Naive Bayes | 79.36742 |
| Vote | 78.91472 |
| Neural Network | 78.60247 |
| Decision Tree | 78.03017 |
| KNN | 68.59032 |