Machine Learning

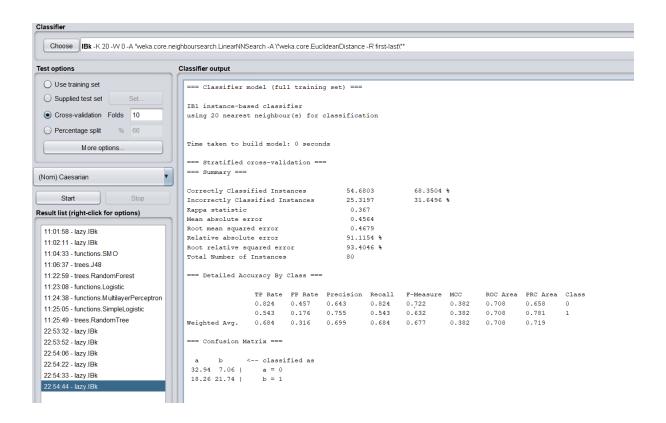
Classification Algorithms using WEKA

1. Caesarian Data set

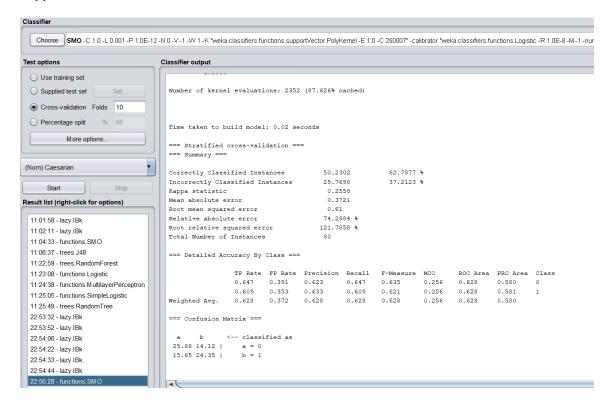
- Applied Class Balancer in the Pre-processing step since the classes were distributed randomly and to reduce the bias.
- KNN algorithm gives more efficient result and ANN was less efficient when compared to others.

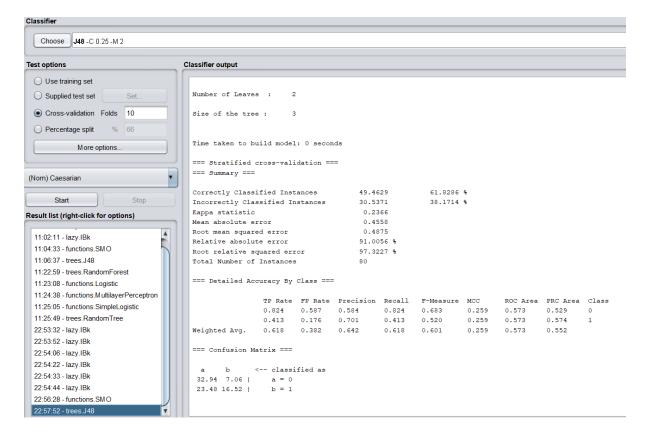
K Nearest Neighbor Algorithm

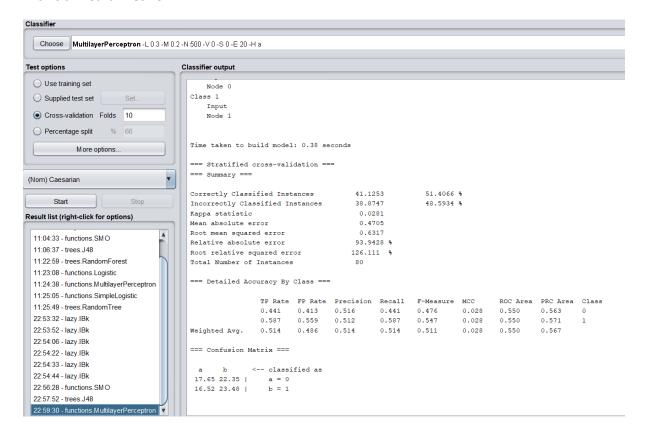
When k=20, the results were more optimal.



Support Vector Machine





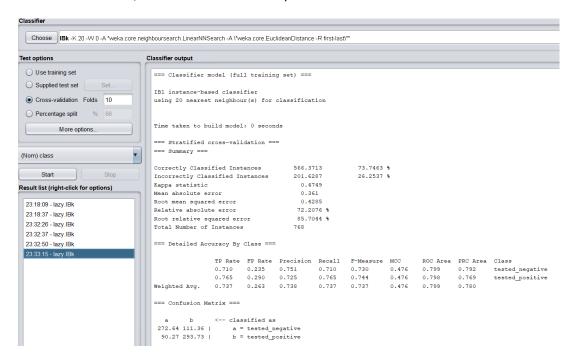


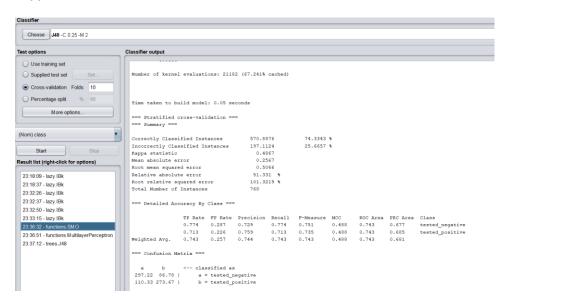
2. Diabetics Dataset

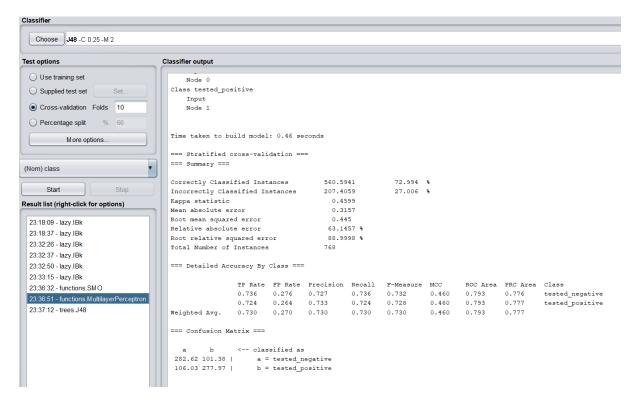
- Applied Class Balancer in the Pre-processing step since the classes were distributed randomly and to reduce the bias.
- SVM Algorithm gives more efficient and Decision Tree gives less efficient results when compared to others.

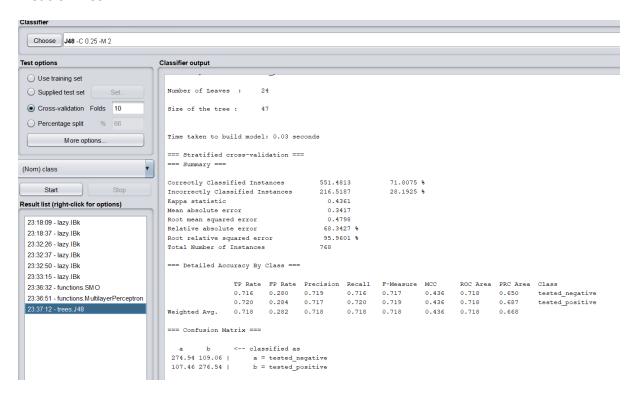
K Nearest Neighbor

When k=20, the results were more optimal.







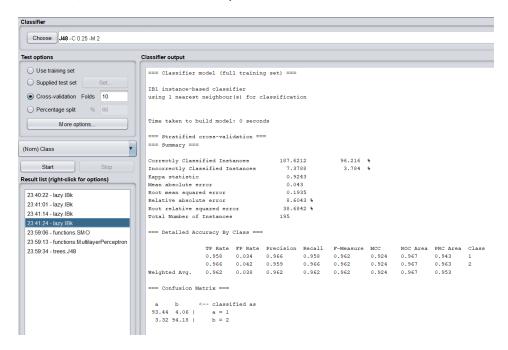


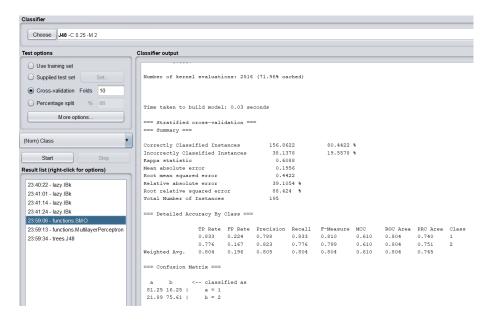
3. Heart Disease Dataset

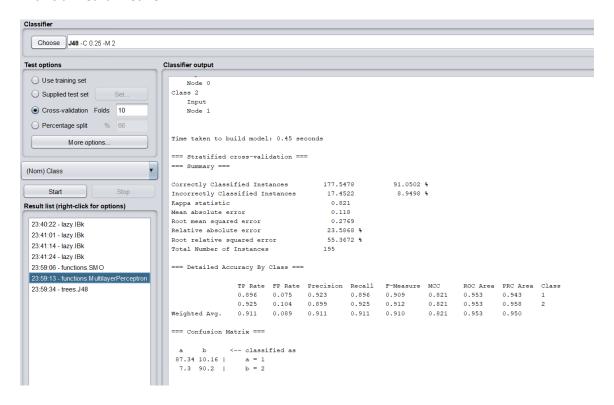
- Applied Class Balancer in the Pre-processing step since the classes were distributed randomly and to reduce the bias.
- KNN Algorithm given more efficient result and Decision Tree algorithm gives less efficient results when compared with others.

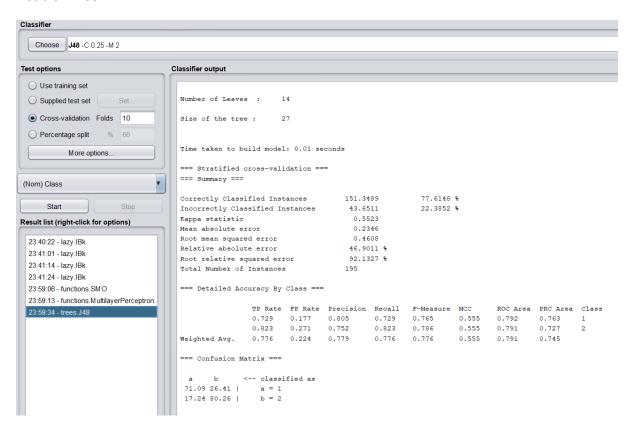
KNN

When k=1, the results were more optimal.







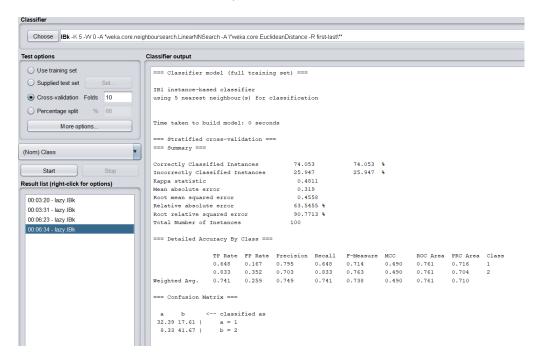


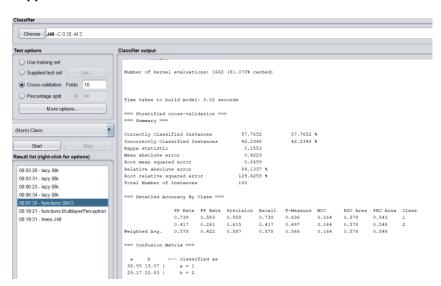
4. Fertility Dataset

- Applied Class Balancer in the Pre-processing step since the classes were distributed randomly and to reduce the bias.
- KNN Algorithm shows more efficient result and ANN Algorithm gives less efficient results when compared with others.

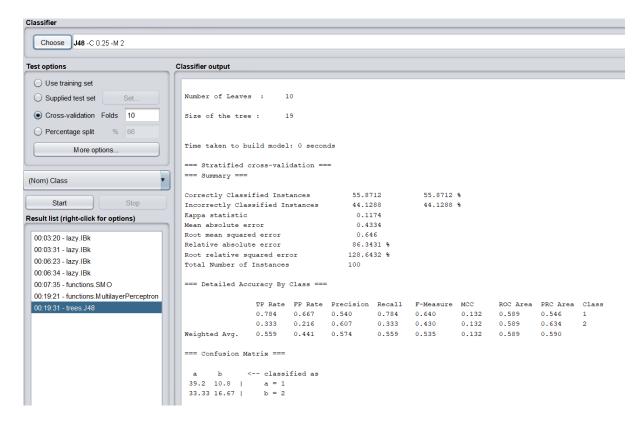
K Nearest Neighbor

When k= 5, the results were more optimal.

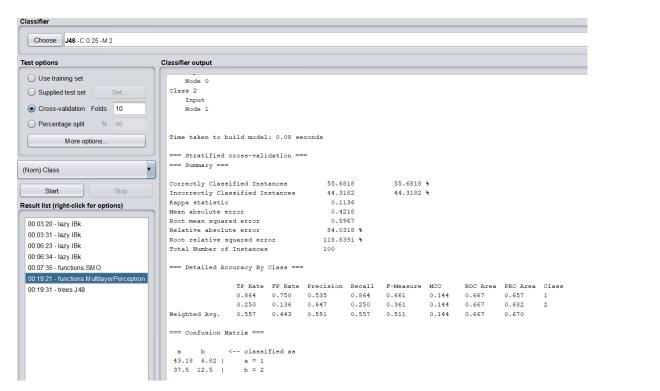




Decision Tree



Artificial Neural Network



5. Breast Cancer Dataset

- Applied Class Balancer in the Pre-processing step since the classes were distributed randomly and to reduce the bias.
- SVM Algorithm is more efficient out of all and Decision Tree Algorithm is least efficient.

K Nearest Neighbor

When k=20, the results were more optimal.

