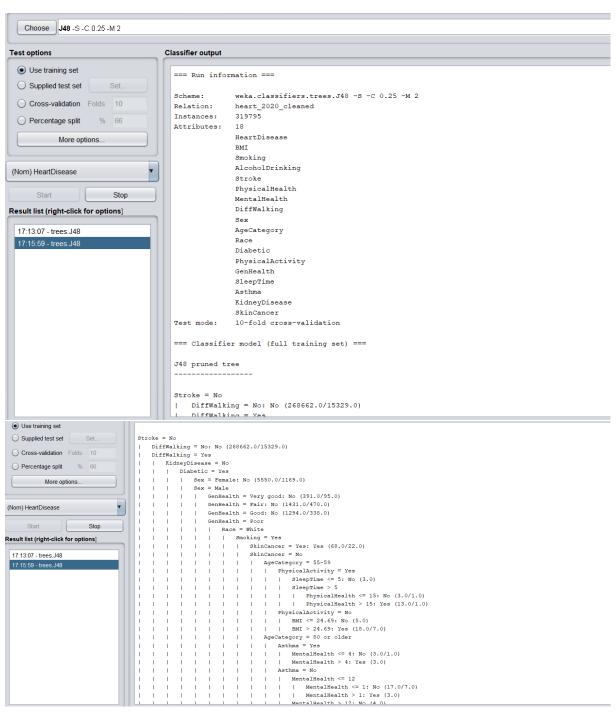
Na przykładzie pliku heart_2020_cleaned.csv

OverFitting – wyłączono przycinanie drzewa



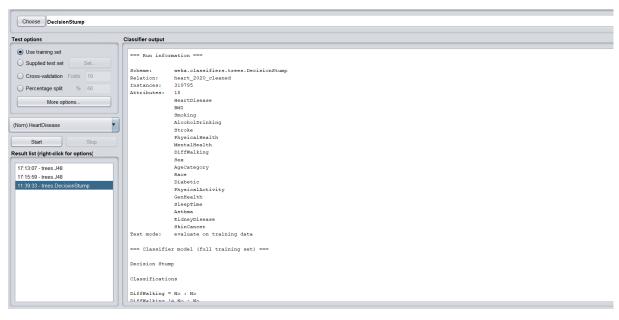
```
| MentalHealth <= 4: No (3.0/1.0)
| MentalHealth > 4: Yes (3.0)
                                                 1
                                                       1
                                                       1
                                                             Asthma = No
                                                                  MentalHealth <= 12
                                                                  | MentalHealth <= 1: No (17.0/7.0)
                                                            | MentalHealth > 1: Yes (3.0)
| MentalHealth > 12: No (4.0)
                                                       AgeCategory = 65-69
                                                             AlcoholDrinking = No
                                                              | Asthma = Yes: Yes (17.0/5.0)
                                                                   Asthma = No
                                                                   | PhysicalActivity = Yes: No (8.0/2.0)
                                                                          PhysicalActivity = No
                                                                         | PhysicalHealth <= 18: Yes (8.0)
                                                                               PhysicalHealth > 18
                                                                                    MentalHealth <= 3
                                                                                     | PhysicalHealth <= 29: Yes (2.0)
                                                                               1 I
1 I
                                                                                           PhysicalHealth > 29
                                                                         - 1
                                                                                           | SleepTime <= 9
                                                                              | MentalHealth > 3: No (11.0/3.0)
                                                            -1
                                                                  1
                                                                        - 1
                                                             AlcoholDrinking = Yes: Yes (2.0)
                                                       AgeCategory = 75-79
                                                            MentalHealth <= 27
                                                             | Asthma = Yes
                                                                   | BMI <= 25.01
                                                                  | | BMI <= 22.1: No (2.0)
| BMI > 22.1: Yes (3.0)
| BMI > 25.01: No (5.0)
                                                                   Asthma = No
                                                                   | SleepTime <= 8
                                                                         | BMT <= 32 32 · Yes (11 0/1 0)
 Choose J48 -S -C 0.25 -M 2
Test options
                                        Classifier output

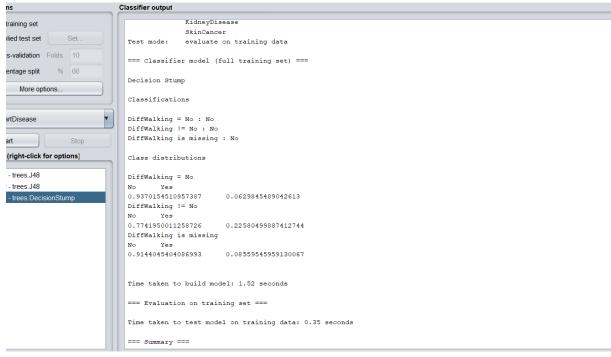
    Use training set

                                                                | Asthma = No: Yes (3.0/1.0)
| BMI > 26.6: Yes (32.0/2.0)
AgeCategory = 50-54: Yes (11.0/1.0)
AgeCategory = 45-49
  O Supplied test set
 O Cross-validation Folds 10
                                                               AgeCategory = 45-49

| Diabetic = Yes: No (2.0)
| Diabetic = No: Yes (2.0)
| Diabetic = No, borderline diabetes: No (0.0)
| Diabetic = Yes (during pregnancy): No (0.0)
AgeCategory = 18-24: Yes (1.0)
AgeCategory = 35-35: No (2.0)
AgeCategory = 30-34: Yes (0.0)
 O Percentage split % 66
          More options...
(Nom) HeartDisease
                                                                AgeCategory = 25-29: Yes (0.0)
    Start Stop
                                                  | AlcoholDrinking = Yes: Yes (9.0)
| GenHealth = Excellent
Result list (right-click for options)
                                                      Diabetic = Yes: Yes (14.0)
Diabetic = No
| Race = White: No (15.0/6.0)
17:13:07 - trees.J48
17:15:59 - trees.J48
                                                       | Race = Black: No (0.0)
| Race = Asian: No (0.0)
| Race = American Indian/Alaskan Native: No (0.0)
                                                       Race = Other: Yes (2.0)
Race = Hispanic: No (0.0)
                                                  | Diabetic = No, borderline diabetes: No (3.0/1.0)
| Diabetic = Yes (during pregnancy): Yes (1.0)
                                          Number of Leaves :
                                          Size of the tree :
                                                                    2819
                                          Time taken to build model: 61.96 seconds
```

Under Fitting





=== Summary ===

Correctly Classified Instances 292422 91.4405 %
Incorrectly Classified Instances 27373 8.5595 %

=== Detailed Accuracy By Class ===

TP Rate FP Rate Precision Recall F-Measure MCC 1,000 1,000 0,914 1,000 0,955 ? 0,000 0,000 ? 0,000 ? ? ? Weighted Avg. 0,914 0,914 ? 0,914 ? ? ROC Area PRC Area Class 0,624 0,934 No 0,624 0,137 Yes 0,624 0,866

=== Confusion Matrix ===

b <-- classified as b <-- classifie 0 | a = No 0 | b = Yes 292422 27373