

Decision Tree Report

*Ratio → training-size : testing-size

*Regularization

- Max-size of tree
 - Min-size of subset
-

In case

- Max-size of tree = 5
- Min-size of subset = 1

Ratio → 25:75

Accuracy = [87.76758409785933](#)

Ratio → 30:70

Accuracy = 91.14754098360656

Ratio → 40:60

Accuracy = 91.95402298850574

Ratio → 50:50

Accuracy = 91.28440366972477

Ratio → 60:40

Accuracy = [93.67816091954023](#)

Ratio → 70:30

Accuracy = 91.6030534351145

In case

- Max-size of tree = 8
- Min-size of subset = 3

Ratio → 25:75

Accuracy = 89.90825688073394

Ratio → 30:70

Accuracy = [87.54098360655738](#)

Ratio → 40:60

Accuracy = 88.88888888888889

Ratio → 50:50

Accuracy = 93.11926605504587

Ratio → 60:40

Accuracy = 95.40229885057471

Ratio → 70:30

Accuracy = 90.07633587786259

In case

- Max-size of tree = 15
- Min-size of subset = 5

Ratio → 25:75

Accuracy = 92.35474006116208

Ratio → 30:70

Accuracy = 87.54098360655738

Ratio → 40:60

Accuracy = 92.72030651340997

Ratio → 50:50

Accuracy = 93.11926605504587

Ratio → 60:40

Accuracy = 95.40229885057471

Ratio → 70:30

Accuracy = 91.6030534351145

In case

- Max-size of tree = 25
- Min-size of subset = 7

Ratio → 25:75

Accuracy = 92.35474006116208

Ratio → 30:70

Accuracy = 89.8360655737705

Ratio → 40:60

Accuracy = 92.72030651340997

Ratio → 50:50

Accuracy = 91.74311926605505

Ratio → 60:40

Accuracy = 93.67816091954023

Ratio → 70:30

Accuracy = 94.65648854961832

In case

- Max-size of tree = 3
- Min-size of subset = 7

Ratio → 25:75

Accuracy = 92.35474006116208

Ratio → 30:70

Accuracy = 91.80327868852459

Ratio → 40:60

Accuracy = 92.72030651340997

Ratio → 50:50

Accuracy = 91.74311926605505

Ratio → 60:40

Accuracy = 93.67816091954023

Ratio → 70:30

Accuracy = 93.12977099236642

In case

- Max-size of tree = 25
- Min-size of subset = 5

Ratio → 25:75

Accuracy = 92.35474006116208

Ratio → 30:70

Accuracy = 87.54098360655738

Ratio → 40:60

Accuracy = 92.72030651340997

Ratio → 50:50

Accuracy = 93.11926605504587

Ratio → 60:40

Accuracy = 95.40229885057471

Ratio → 70:30

Accuracy = 91.6030534351145