

Ex-3 Visualization of Decision Tree Algorithm

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Visualization of Decision Tree

#R version 3.6.2 (2019-12-12)

#RStudio version 1.2.1335

Dataset can be downloaded from

https://onlinecourses.science.psu.edu/stat857/sites/onlinecourses.science.psu.edu.stat857/files/german_credit.csv

1. Load the dataset `german_credit.csv` and view the dataset
2. Make dependent variable as a factor (categorical)
3. Split data into training (70%) and validation (30%)
4. Construction of Decision Tree Model and visualize the decision tree
5. Visualize the decision tree using `prp` function
6. Pruning the Decision Tree and visualize the pruned tree
7. print the confusion matrix (training data)
8. Plotting ROC Curve
9. Visualize the Tree using Random Forest Algorithm
10. Visualize the Tree using CART Model