Project

For the below provided dataset (MTcars & Heart Disease) perform Decision Tree model and Linear regression model and predict their target variable. and build an efficient Dashboard for the same.

Theoretical assignment (Decision Tree Model)

1. What is the main objective of the decision tree algorithm?

2. What is homogeneity and how do you measure it?

3. What are the various split criteria ?

5. What are underfit,overfit and best fit models?

6. What's the functioning difference between Decision Tree Regressor and Decision Tree Classifier?

Explore the answers to these extra questions on your own:

1. Why is the decision tree called a greedy technique?

2. What is pruning?

3. What is the best use case for decision tree model?

4. Explain an example where decision tree will fail to perform

5. What is the advantage of Decision tree over linear/logistic regression?