**Decision Tree Model**

**Problem Statement** – Prediction of heart disease based on different variables like age, sex and cholesterol level.

**Building Model steps** –

1. Read and clean the dataset
2. Splitting the Data into Training and Testing Sets
3. Initially fitted decision tree with default hyperparameters, apart from max\_depth which I kept 3 so that we can plot and read the tree.
4. Visualization of the tree
5. Evaluated performance of the model
   1. Accuracy on the test data was low and therefore performed hyperparameter tuning and rebuilt the model to increase the accuracy.