

LAB#06

Artificial Intelligence
Abdul Haseeb

Lab Objectives

Implementation
of Decision
Tree Algorithm

Lab Task 01

- Import the Iris dataset in jupyter notebook
- Print the first five rows from dataframe
- Check for null values
- Check Data types of each column
- Check unique values from the species column and count of each unique values
- Check Maximum value and Minimum value of each column in the dataset
- Train a Decision Tree Classifier and Evaluate it

Lab Task 02

- Load the dataset Train.csv in a dataframe named train
- Load the dataset Test.csv in a dataframe named test
- Display the shape of each dataframe using the shape attribute of dataframe
- Describe the summary statistics of both dataframes
- Check if there are any null values in both train and test data
- Check for unique values from species column
- Separate the features and Independent variables in X and y from train df
- Train the Decision Tree Model on X and y
- Perform predictions on X and name it as train_pred

Lab Task 02

- Check Train accuracy
- Separate the test data into dependent and independent variables
- Perform predictions on the dependent variables
- Check the test accuracy