## Machine Learning Laboratory

## (410302)

## BE Sem I Honors in AI/ML

### Academic Year: 2023-24

Lab Assignment No.7

**Problem Statement:**

Write a program to solve a problem using Decision tree or Random forest algorithm

**Objective**

Lab Exercise 1

Use famous iris flower dataset from sklearn.datasets to predict flower species using random forest classifier.

1. Measure prediction score using default n\_estimators (10)
2. Now fine tune your model by changing number of trees in your classifier and tell me what best score you can get using how many trees

Lab Exercise 2:

Build decision tree model to predict survival of titanic based on certain parameters

.csv file is available to download at Kaggle or is also with lab assignment

In this file using following columns build a model to predict if person would survive or not,

1. Pclass 2. Sex 3. Age 4. Fare

Calculate score of your model