

2nd Sep 2019

Attendance: 10%, Continuous evaluation: 70%, Viva-20%

Assignment No. 2

- i. Download Titanic Dataset (<https://www.kaggle.com/heptapod/titanic/version/1#>) and use Support Vector Machine (SVM) for classification.
- ii. Show the overfitting and underfitting problem using SVM(use regularization technique) and analyze by graph (use matplotlib) .
- iii. Using the same dataset and run Decision Tree classifier, Logistic Regression, Boosting for classification task.
- iv. Compare the accuracy value of all the classifiers and plot it in histogram. (Using matplotlib)
- v. Download Forest Cover Type dataset (<https://www.kaggle.com/uciml/forest-cover-type-dataset>) and preprocess the dummy variables to create training, test and development set.
- vi. Apply multiclass classification in SVM using Forest Cover Type dataset.
- vii. Plot and Analyze the Confusion matrix for the above applied SVM method.

Submit a report with results.