MACHINE INTELLIGENCE AND EXPERT SYSTEMS

EC60091

AUTUMN SEMESTER - 2019

ASSIGNMENT-4 (Metrics, VC Dimension, Feature Selection and Hypothesis Evaluation)

1. A classifier is trained for classifying a person as normal subject or diseased subject. The classifier’s output (in a range of [0, 1]) is stored in a data file ‘predicted.mat’ and the actual value is stored in a file ‘actual.mat’ where 0 is for normal person and 1 for diseased person. Plot a receiver operating characteristics (ROC) curve and obtain the value of area under the curve (AUC).

**Note: You are not allowed to use inbuilt Confusion metric, ROC and AUC functions from python libraries.**