MACHINE LEARNING TECHNIQUES LAB

1. PERFORM DECISION TREES ON A DATASET AND ANALYSE THE PERFORMANCE
2. PERFORM RANDOM FOREST ON A DATASET AND COMPARE ITS PERFORMANCE WITH DECISION TREES
3. PERFORM NAÏVE BAYES ON A DATASET AND ANALYSE ITS PERFORMANCE
4. PERFORM LINEAR REGRESSION ON TWO DATASETS AND ANALYSE ITS PERFORMANCE
5. PERFORM K MEANS CLUSTERING ON A DATASET AND ANALYSE ITS PERFORMANCE. ALSO PERFORM OUTLIER DETECTION.
6. PERFORM GAUSSIAN MIXTURE MODEL ON TWO DIFFERENT DATASETS AND ANALYSE ITS PERFORMANCE.
7. PERFORM SUPPORT VECTOR MACHINE ON CLASSIFICATION.
8. PERFORM SUPPORT VECTOR MACHINE ON MULTI CLASS DATASET. PERFORM OvO & OvA.
9. PERFORM SUPPORT VECTOR MACHINE ON NON VECTORIAL DATASET.
10. PERFORM SUPPORT VECTOR REGRESSION ON 2D NON LINEARLY SEPERABLE DATA.
11. PERFORM SINGLE LAYER PERCEPTRON ON LINEARLY SEPERABLE AND NON LINEARLY SEPERABLE DATA.
12. PERFORM MULTI LAYER PERCEPTRON ON LINEARLY SEPERABLE AND NON LINEARLY SEPERABLE DATA.