Lab Assignment 5

- 1. Multiclass Logistic Regression: Implement Multiclass Logistic Regression (step-by step) on Iris dataset using one vs. rest strategy?
- 2. Use the weather dataset to implement the decision tree. Try different available parameters of the inbuilt method.
- 3. Download the Bank Note Authentication Dataset from the following link https://drive.google.com/file/d/12r4j7yjGC4s TigKEHyISSY1NSPzF3eX/vi ew?usp=sharing

The dataset contains following four input features computed from 400X400 images of bank notes:

- 1. variance of Wavelet Transformed image (continuous)
- 2. skewness of Wavelet Transformed image (continuous)
- 3. Curtosis of Wavelet Transformed image (continuous)
- 4. entropy of image (continuous)

Each instance is labelled as fake (label 0) or authentic (label 1).

For the given dataset, implement Decision Tree-based CART algorithm