

(Based on Decision Tree Classifier)

Q1: Download the Bank Note Authentication Dataset from the following link

[Banknote-Authentication-UCI-Dataset/bank_notes.csv at master · AbhiRoy96/Banknote-Authentication-UCI-Dataset · GitHub](https://github.com/AbhiRoy96/Banknote-Authentication-UCI-Dataset)

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:

- (i) Step-by-Step/Inbuilt Function
- (ii) Evaluate the performance of the classifier.