IDC4022C Module 6 Project Part 1 Comparison of Classifier Performance

This assignment will practice evaluation and compare the performance of four different classifiers using the Loan Default dataset from Module 6.

Instructions:

Classifiers to Compare:

- Most Frequent Class Baseline Classifier (“random guessing”)
- Gaussian Naive Bayes Classifier
- K-Nearest Neighbors Classifier with K=3
- K-Nearest Neighbors Classifier with K=10

Use cross-validation to assess the performance of each classifier in terms of accuracy, precision, and ROC-AUC.

Visualizations of these metrics will be created in part 2, the output for this part of the project is text only.

Include a summary of your results in a Word document.

Commit your Python solution and Word document to the GitHub classroom repository.