

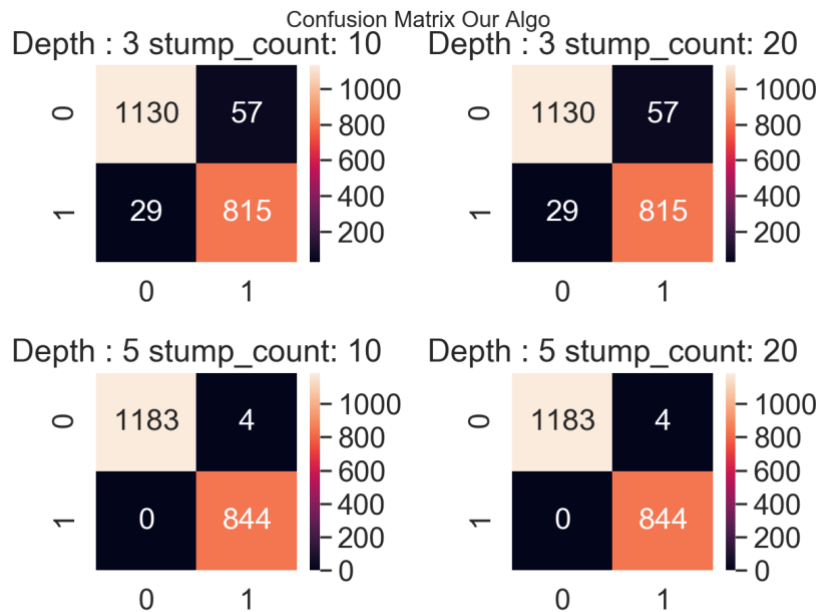
## Programming Assignment 2 Report

Submitted by:

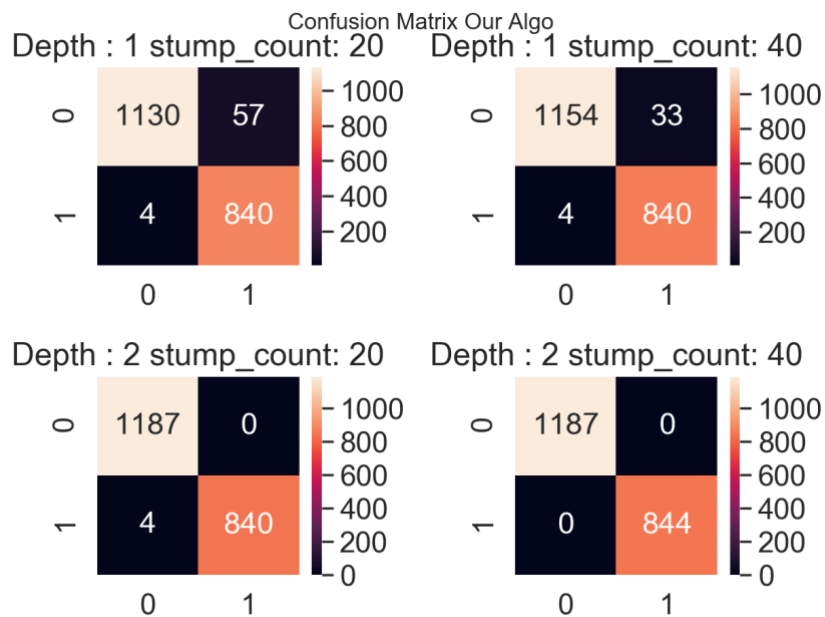
S K Aravind: SXA190006

Paresh Dashore: PXD190004

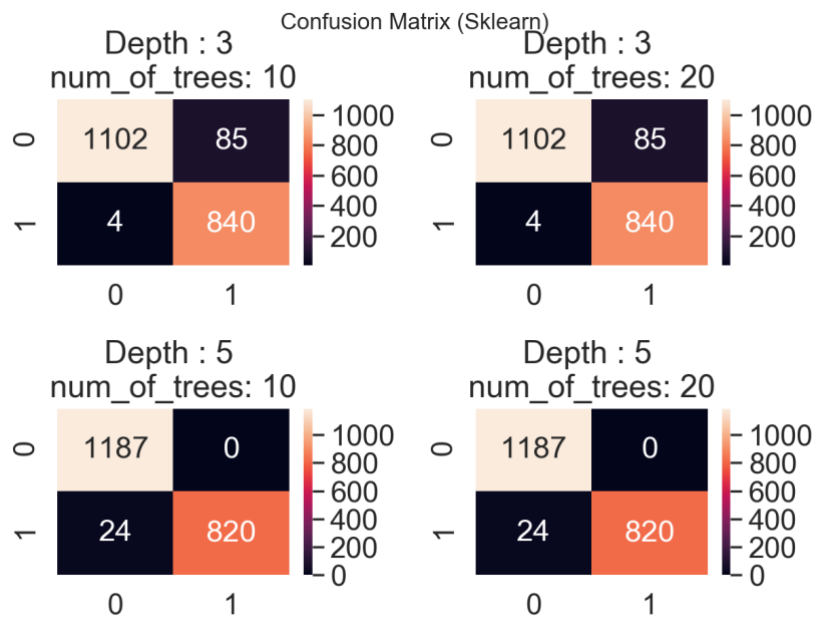
a) Performance of our Bagging algorithm.



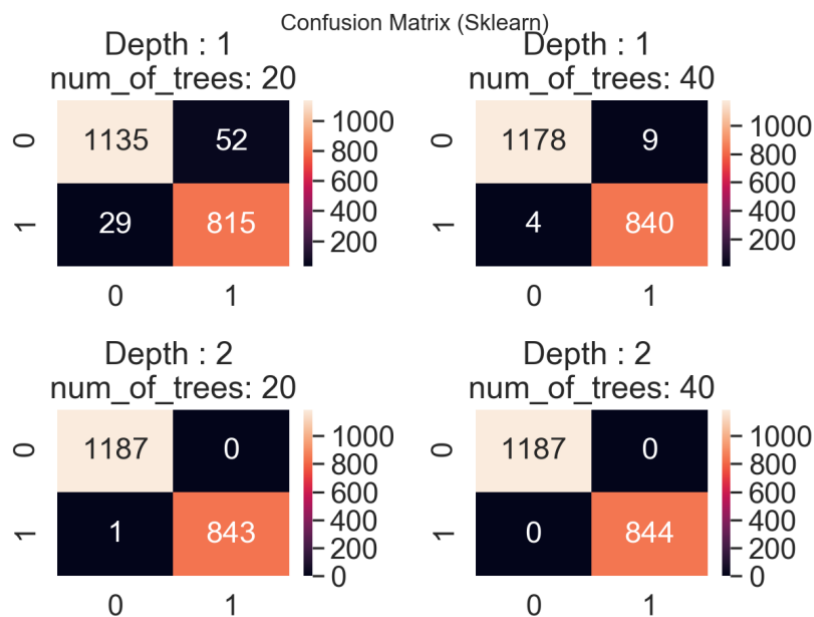
b) Performance of our Boosting algorithm.



c) Performance of Scikit-Learn Bagging algorithm



d) Performance of Scikit-Learn Boosting algorithm



In the case of **Bagging**, both our algorithm and Scikit performed in a similar manner such that only depth of decision tree resulted in a change in accuracy and number of trees had no effect. Accuracy was also comparable, both resulting in 98-99% test accuracy. The only noticeable drawback of our algorithm was that it was slightly slower.

In the case of **Boosting**, both Scikit and our algorithm gave 100% test accuracy in the case of 40 trees of depth 2. Again, our algorithm was slightly slower.