**Output of the Entire Code**

**Project Done by:**

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**OUTPUT:**

**Accuracy of Decision Tree Classifier before performing PCA:**

DT train accuracy before PCA: 0.9997450410483912

**Accuracy of Decision Tree CV mean before performing PCA:**

DT CV mean accuracy before PCA: 0.9872522854836339

**Recall Score of Decision Tree Classifier before performing PCA:**

DT train recall score before PCA: 0.999863004315364

**Accuracy of Decision Tree Classifier after performing PCA:**

DT train accuracy after PCA: 0.9997450410483912

**Accuracy of Decision Tree CV mean after performing PCA:**

DT CV mean accuracy after PCA: 0.9858748386925393

**Recall Score of Decision Tree Classifier after performing PCA:**

DT train recall score after PCA: 0.999863004315364

**Accuracy of Random Forest Classifier before performing PCA:**

RF train accuracy before PCA: 0.9992861149354954

**Accuracy of Random Forest CV mean before performing PCA:**

RF CV mean accuracy before PCA: 0.991280478547597

**Recall Score of Random Forest Classifier before performing PCA:**

RF train recall score before PCA: 0.9997260086307281

**Accuracy of Random Forest Classifier before performing PCA:**

RF train accuracy after PCA: 0.9994390903064606

**Accuracy of Random Forest CV mean before performing PCA:**

RF CV mean accuracy after PCA: 0.9891387919291057

**Recall Score of Random Forest Classifier before performing PCA:**

RF train recall score after PCA: 0.9997945064730461

**Accuracy of Random Forest Classifier after performing PCA:**

RF train accuracy after PCA: 0.9994390903064606

**Accuracy of Random Forest CV mean after performing PCA:**

RF CV mean accuracy after PCA: 0.9891387919291057

**Recall Score of Random Forest Classifier after performing PCA:**

RF train recall score after PCA: 0.9997945064730461