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Indika P Wickramasinghe* (ind_pradeep@yahoo.com), Department of Mathematics, Prairie View A&M University, Prairie View, TX 77446. *Classification Technique and the Accuracy of Data Classification.*

Though the accuracy of data classification depends on various features, the classification techniques plays a major role in data classification. Using a collected dataset about credit card transactions, this study compares four different data classification techniques for higher accuracy. In this study we consider four types of popular classification techniques, namely Support Vector Machines (SVM), Principal Component Analysis (PCA), Robust Principal Component Analysis (RPCA), and Random Forest. Out of the selected classification techniques, Random Forest performs better than its counterparts. In addition, the impact of the noise on accuracy of data classification also discusses. (Received July 19, 2017)