

## Results for individual attribute classification using Random Forest Algorithm

Algorithm: profile pic  
Accuracy: 0.792 Precision: 0.988  
Recall: 0.59 F-M: 0.739  
MCC: 0.637 AUC: 0.792

Algorithm: nums/length username  
Accuracy: 0.781 Precision: 0.843  
Recall: 0.691 F-M: 0.76  
MCC: 0.572 AUC: 0.781

Algorithm: fullname words  
Accuracy: 0.719 Precision: 0.711  
Recall: 0.736 F-M: 0.724  
MCC: 0.438 AUC: 0.719

Algorithm: nums/length fullname  
Accuracy: 0.569 Precision: 0.885  
Recall: 0.16 F-M: 0.271  
MCC: 0.242 AUC: 0.569

Algorithm: name==username  
Accuracy: 0.531 Precision: 0.95  
Recall: 0.066 F-M: 0.123  
MCC: 0.171 AUC: 0.531

Algorithm: description length  
Accuracy: 0.78 Precision: 0.725  
Recall: 0.899 F-M: 0.803  
MCC: 0.576 AUC: 0.78

Algorithm: external URL  
Accuracy: 0.616 Precision: 0.566  
Recall: 1.0 F-M: 0.723  
MCC: 0.363 AUC: 0.616

Algorithm: private  
Accuracy: 0.51 Precision: 0.508  
Recall: 0.67 F-M: 0.578  
MCC: 0.022 AUC: 0.51

Algorithm: #posts

Accuracy: 0.806 Precision: 0.793  
Recall: 0.826 F-M: 0.81  
MCC: 0.612 AUC: 0.806

Algorithm: #followers  
Accuracy: 0.804 Precision: 0.811  
Recall: 0.792 F-M: 0.801  
MCC: 0.608 AUC: 0.804

Algorithm: #follows  
Accuracy: 0.658 Precision: 0.657  
Recall: 0.66 F-M: 0.659  
MCC: 0.316 AUC: 0.658

## **Results for classification on training data using Random Forest, SVM, Decision Tree Classifier, AdaBoost Classifier, Logistic Regression, kNN**

Algorithm: RF  
Accuracy: 0.92 Precision: 0.938  
Recall: 0.899 F-M: 0.918  
MCC: 0.841 AUC: 0.92

Algorithm: J48  
Accuracy: 0.898 Precision: 0.902  
Recall: 0.892 F-M: 0.897  
MCC: 0.795 AUC: 0.898

Algorithm: AB  
Accuracy: 0.913 Precision: 0.919  
Recall: 0.906 F-M: 0.913  
MCC: 0.826 AUC: 0.913

Algorithm: kNN  
Accuracy: 0.899 Precision: 0.899  
Recall: 0.899 F-M: 0.899  
MCC: 0.799 AUC: 0.899

Algorithm: LR  
Accuracy: 0.715 Precision: 0.97  
Recall: 0.444 F-M: 0.61  
MCC: 0.512 AUC: 0.715

Algorithm: SVM  
Accuracy: 0.686 Precision: 0.965  
Recall: 0.385 F-M: 0.551  
MCC: 0.465 AUC: 0.686

## Results for classification on testing data using Random Forest, SVM, Decision Tree Classifier, AdaBoost Classifier, Logistic Regression, kNN

Algorithm: RF  
Accuracy: 0.958 Precision: 0.966  
Recall: 0.95 F-M: 0.958  
MCC: 0.917 AUC: 0.958

Algorithm: J48  
Accuracy: 0.892 Precision: 0.898  
Recall: 0.883 F-M: 0.891  
MCC: 0.783 AUC: 0.892

Algorithm: AB  
Accuracy: 0.95 Precision: 0.935  
Recall: 0.967 F-M: 0.951  
MCC: 0.901 AUC: 0.95

Algorithm: kNN  
Accuracy: 0.85 Precision: 0.818  
Recall: 0.9 F-M: 0.857  
MCC: 0.704 AUC: 0.85

Algorithm: LR  
Accuracy: 0.842 Precision: 0.86  
Recall: 0.817 F-M: 0.838  
MCC: 0.684 AUC: 0.842

Algorithm: SVM  
Accuracy: 0.608 Precision: 1.0  
Recall: 0.217 F-M: 0.356  
MCC: 0.349 AUC: 0.608