

Model Training

```
In [29]: def get_score(name, model, X_train, X_test, y_train, y_test):
    model.fit(X_train, y_train)
    pred = model.predict(X_test)
    print(model)
    print()

    score = metrics.accuracy_score(y_test, pred)
    cm = metrics.confusion_matrix(y_test, pred, labels = [0,1])
    print(cm)
    print()
    print("Training Accuracy : ", model.score(X_train, y_train))
    print()
    print("Testing Accuracy : ", model.score(X_test, y_test))
    print()

    joblib.dump(model, str(name)+str(model.score(X_test, y_test))+".joblib")
    print("#####")
    return(model, model.score(X_test, y_test))

model, result = get_score("rf", RandomForestClassifier(n_estimators=69, class_weight='balanced'),
    x_train, x_test, y_train, y_test)

type(model)

RandomForestClassifier(class_weight='balanced', n_estimators=69)

[[11022  0]
 [  0 3083]]

Training Accuracy : 1.0
```

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