

# Training And Testing The Model

Initialising all the models and predicting for better accuracy

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In [2]: XGBoost = xgboost.XGBRFClassifier()
Rand_forest = sklearn.ensemble.RandomForestClassifier()
svm = sklearn.svm.SVC()
Dtree = sklearn.tree.DecisionTreeClassifier()
GBM = sklearn.ensemble.GradientBoostingClassifier()
log = sklearn.linear_model.LogisticRegression()
```

```
In [3]: XGBoost.fit(x_train,y_train)
Rand_forest.fit(x_train,y_train)
svm.fit(x_train,y_train)
Dtree.fit(x_train,y_train)
GBM.fit(x_train,y_train)
log.fit(x_train,y_train)
```

```
In [4]: p1 = XGBoost.predict(x_train)
p2 = Rand_forest.predict(x_train)
p3 = svm.predict(x_train)
p4 = Dtree.predict(x_train)
p5 = GBM.predict(x_train)
p6 = log.predict(x_train)
```

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In [6]: print("xgboost:",metrics.accuracy_score(y_train,p1))
print("Rand_forest:",metrics.accuracy_score(y_train,p2))
print("svm:",metrics.accuracy_score(y_train,p3))
print("Dtree:",metrics.accuracy_score(y_train,p4))
print("GBM:",metrics.accuracy_score(y_train,p5))
print("log:",metrics.accuracy_score(y_train,p6))
```