

~~X~~ Day - 9 ~~X~~

~~X~~ ML with python - Day 9 ~~X~~

किफायती

Date.....

Pages.....

Rituraj

- ① SUM
- ② Decision Tree
- ③ Bagging Model
- ④ Gradient Boosting
- ⑤ Random forest

Titanic / Hotel / Diak \Rightarrow Random

- ① from sklearn.tree import DecisionTreeClassifier
- ② model3 = DecisionTreeClassifier()
- ③ model3.fit(X_train, y_train)
- ④ model3.score(X_train, y_train)
- ⑤ model3.score(X_test, y_test)

\Rightarrow 0.71

- ① from sklearn.ensemble import BaggingClassifier
- ② model4 = BaggingClassifier()

- ① from sklearn.ensemble import AdaBoostClassifier
- ② model5 = AdaBoostClassifier()

① from sklearn.ensemble import GradientBoostingClassifier
② model = GradientBoostingClassifier()

① from sklearn import RandomForestClassifier
② model = RandomForestClassifier()

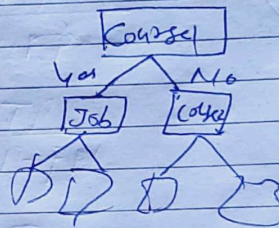
① from sklearn.svm import SVC
② model = SVC.Rbf

* Decision Tree *

Classifier

⇒ Classification
Algorithm

⇒ Problem is overfitting
{ Train → Good }
{ Test → Bad }



⇒ pruning (max-depth)

* Ensemble model *

⇒ Group of model is ensemble model

(Estimators = total no. of model)

base-estimator = model3

Bagging
AdaBoost
Gradient Boost

Random forest \Rightarrow n-estimators

max features

(no. of columns
to use for modelling)

Svm

kernel \Rightarrow Change the dimension of the model

gamma \Rightarrow