

BOOSTING DEMONSTRATION

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In [ ]: #import libraries
import pandas as pd
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In [ ]: #Load the dataset
dataset = pd.read_csv("C:\\Users\\Smarty Rohit\\Desktop\\parkinsons.csv")
dataset.sample(10)
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In [ ]: #check missing values
dataset.isnull().sum()
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In [ ]: # quick overview of a dataset
dataset.describe()
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In [ ]: # counting the values in column--status
dataset.status.value_counts()
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In [ ]: #initialize x and y variables
X=dataset.drop('status',axis='columns')
y=dataset.status
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In [ ]: #dataset scalling
from sklearn.preprocessing import StandardScaler
scaler = StandardScaler()
X_scaled=scaler.fit_transform(X)
X_scaled[:3]
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In [ ]: #splitting data into training and testing set
from sklearn.model_selection import train_test_split
X_train,X_test,y_train,y_test = train_test_split (X,y,stratify=y,random_state=10)
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In [ ]: #shape of training set
X_train.shape
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In [ ]: #shape of training set
X_train.shape
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In [ ]: # count values for training set
y_train.value_counts()
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In [ ]: # define a decision tree classifier
from sklearn.tree import DecisionTreeClassifier
from sklearn.model_selection import cross_val_score
results = cross_val_score(DecisionTreeClassifier(),X,y,cv=5)
results.mean()
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In [ ]: #define a adaboost classifier...

from sklearn.ensemble import AdaBoostClassifier
model = AdaBoostClassifier(n_estimators=10,random_state=0)

model.fit(X_train,y_train)
model.score(X_test,y_test)
```

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In [ ]: #source code --> End  
#done by rohit naresh saktel
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