Date:23/11/2020

Practical no 7

AIM: Implement Adaboost ensemble learning algorithm for the restaurant waiting problem Or any other problem

CODE:

```
import pandas
from sklearn import model_selection
from sklearn.ensemble import AdaBoostClassifier
url = "https://raw.githubusercontent.com/jbrownlee/Datasets/master/pima-indians-diabetes.data.csv"
names = ['preg', 'plas', 'pres', 'skin', 'test', 'mass', 'pedi', 'age', 'class']
dataframe = pandas.read_csv(url, names=names)
array = dataframe.values
X = array[:,0:8]
Y = array[:,8]
seed = 7
num_trees = 30
kfold = model_selection.KFold(n_splits=10)
model = AdaBoostClassifier(n_estimators=num_trees, random_state=seed)
results = model_selection.cross_val_score(model, X, Y, cv=kfold)
print(results.mean())
```

OUTPUT :

```
>>>
================== RESTART: C:/Users/BlackBot/Desktop/prac7.py ==================
0.760457963089542
performed by krunal 713
>>>
```