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import numpy as np
import pandas as pd

data = pd.read_csv('HR_comma_sep.csv')
data.head()

from sklearn import preprocessing
le = preprocessing.LabelEncoder()
data['salary'] = le.fit_transform(data['salary'])
same for sales

print(data['salary'])
same for sales

X = data [['satisfaction_level', 'last_evaluation', 'number_project', 'average_monthly_hours',
'time_spend_company', 'Work_accident', 'promotion_last_5years', 'salary', 'sales']]
y = data['left']
from sklearn.model_selection import train_test_split
X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 0.3, random_state = 42)

print(X_train)

from sklearn.neural_network import MLPClassifier
clf = MLPClassifier(hidden_layer_sizes = (8,5),
random_state = 5,
verbose = True,
learning_rate_init = 0.01)
clf.fit(X_train, y_train)

ypred = clf.predict(X_test)
from sklearn.metrics import accuracy_score
accuracy_score(y_test, ypred)

```