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import pandas as pd
import numpy as np
from sklearn import preprocessing
from sklearn.naive_bayes import MultinomialNB
from sklearn.metrics import accuracy_score
from sklearn.metrics import classification_report
from sklearn.model_selection import train_test_split
from matplotlib import pyplot
from sklearn import metrics
data = pd.read_csv('/content/covid(For Naive Bayes Program).csv')
data
le = preprocessing.LabelEncoder()
pc_encoded=le.fit_transform(data['pc'].values)
wbc_encoded=le.fit_transform(data['wbc'].values)
mc_encoded=le.fit_transform(data['mc'].values)
ast_encoded=le.fit_transform(data['ast'].values)
bc_encoded=le.fit_transform(data['bc'].values)
ldh_encoded=le.fit_transform(data['ldh'].values)
Y=le.fit_transform(data['diagnosis'].values)
X=np.array(list(zip(pc_encoded,wbc_encoded,mc_encoded,ast_encoded,bc_encoded,ldh_encoded)))
model = MultinomialNB()
X_train,X_test,Y_train,Y_test=train_test_split(X,Y,test_size=.8)
model.fit(X_train, Y_train)
y pred = model.predict(X test)
print("Accuracy:",accuracy_score(Y_test, y_pred))
print("\nReport")
print(classification_report(Y_test,y_pred))
lr_probs=model.predict_proba(X_test)
lr\_probs
lr_probs=lr_probs[:,1]
lr_fpr,lr_tpr,_=metrics.roc_curve(Y_test,lr_probs)
lr_fpr
pyplot.plot(lr_fpr,lr_tpr)
pyplot.xlabel("False +")
pyplot.ylabel("True +")
pyplot.show()
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