import numpy as np  
from sklearn.linear\_model import LinearRegression  
from sklearn.metrics import r2\_score  
#input data  
x=np.array([[1,1],[1,2],[2,2],[2,3]])  
y=np.array([3,4,5,6])  
model=LinearRegression() #creating linear reg model  
model.fit(x,y) #fit model to data  
y\_pred=model.predict(x) #predict the output  
#calculate sum square error  
sse=np.sum((y\_pred-y)\*\*2)  
print("sum of square erroe",sse)  
#calculate Total sum of square  
tss=np.sum(np.mean(y)\*\*2)  
print("Total sum of square",tss)  
#calculate R2 score  
r2=r2\_score(y,y\_pred)  
print("r2 score",r2)  
#calculate adjusted r2  
n=x.shape[0]  
p=x.shape[1]  
adjusted\_r2=1-(1-r2)\*(n-1)/(n-p-1)  
print("adjusted\_square:",adjusted\_r2)