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import numpy as np
import matplotlib.pyplot as plt
import pandas as pd

dataset = pd.read_csv(r"C:\Users\Admin\Desktop\NIT\1. NIT_Batches\1. MORNING
BATCH\N_Batch -- 10.00AM_ DEC25\3. Aug\15th- SLR\SIMPLE LINEAR
REGRESSION\Salary_Data.csv")

x = dataset.iloc[:, :-1]
y = dataset.iloc[:, -1]

from sklearn.model_selection import train_test_split
x_train, x_test, y_train, y_test = train_test_split(x, y,
test_size=0.2, random_state=0)

from sklearn.linear_model import LinearRegression
regressor = LinearRegression()
regressor.fit(x_train, y_train)

y_pred = regressor.predict(x_test)

plt.scatter(x_test, y_test, color = 'red') # Real salary data (testing)
plt.plot(x_train, regressor.predict(x_train), color = 'blue') # Regression line
from training set
plt.title('Salary vs Experience (Test set)')
plt.xlabel('Years of Experience')
plt.ylabel('Salary')
plt.show()

m = regressor.coef_
c = regressor.intercept_

(m*12) + c
(m*20) + c

```