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|  | import numpy as np |
|  | import matplotlib.pyplot as plt |
|  | import pandas as pd |
|  |  |
|  | # Importing the dataset |
|  | dataset = pd.read\_csv('Salary\_Data.csv') |
|  | X = dataset.iloc[:, :-1].values |
|  | Y = dataset.iloc[:, 1].values # Dependent Variable/Target Values |
|  |  |
|  | # Splitting the Dataset into Training Set and Test Set |
|  | from sklearn.cross\_validation import train\_test\_split |
|  | X\_train, X\_test, Y\_train, Y\_test = train\_test\_split(X, Y, test\_size = 1/3, random\_state = 0) |
|  |  |
|  | from sklearn.linear\_model import LinearRegression |
|  | regressor = LinearRegression() |
|  | regressor.fit(X\_train, Y\_train) |
|  |  |
|  |  |
|  | y\_pred = regressor.predict(X\_test) |
|  |  |
|  | # Visualizing the Training Set Results |
|  | plt.scatter(X\_train, Y\_train, color = 'red') |
|  | plt.plot(X\_train, regressor.predict(X\_train), color = 'blue') |
|  | plt.title('Salary Vs Experience (Training Set)') |
|  | plt.xlabel('Years of Experience') |
|  | plt.ylabel('Salary') |
|  | plt.show() |
|  |  |
|  | # Cool! Now we have to Visualizing the Test Set Results |
|  | plt.scatter(X\_test, Y\_test, color = 'red') |
|  | plt.plot(X\_train, regressor.predict(X\_train), color = 'blue') |
|  | plt.title('Salary Vs Experience (Test Set)') |
|  | plt.xlabel('Years of Experience') |
|  | plt.ylabel('Salary') |
|  | plt.show() |