

# LReg

April 14, 2022

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[1]:  
[12]: # Simple Linear Regression  
  
      # Importing the libraries  
  
      import numpy as np  
      import matplotlib.pyplot as plt  
      import pandas as pd  
[13]: # Importing the dataset  
  
      dataset = pd.read_csv('D:\Salary_Data.csv')  
      X = dataset.iloc[:, :-1].values  
      y = dataset.iloc[:, -1].values  
[14]: # Splitting the dataset into the Training set and Test set  
  
      from sklearn.model_selection import train_test_split  
      X_train, X_test, y_train, y_test = train_test_split(X, y, test_size = 1/3,  
      ↪random_state = 0)  
[15]: # Training the Simple Linear Regression model on the Training set  
  
      from sklearn.linear_model import LinearRegression  
      regressor = LinearRegression()  
      regressor.fit(X_train, y_train)  
[15]: LinearRegression(copy_X=True, fit_intercept=True, n_jobs=None, normalize=False)  
[16]: # Predicting the Test set  
  
      resultsy_pred = regressor.predict(X_test)  
[17]: # Visualising 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')
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plt.ylabel('Salary')
plt.show()

# Visualising 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()
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output\_6\_0.png

output\_6\_1.png

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