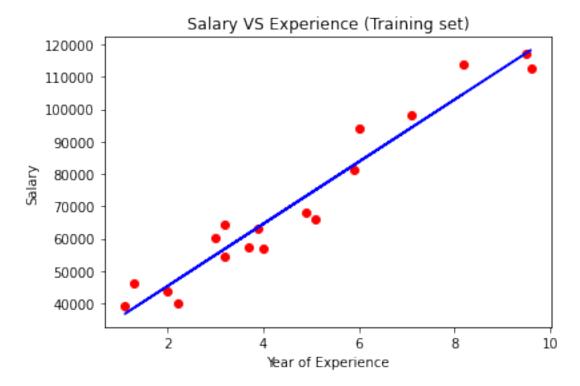
linearreg_towardsds

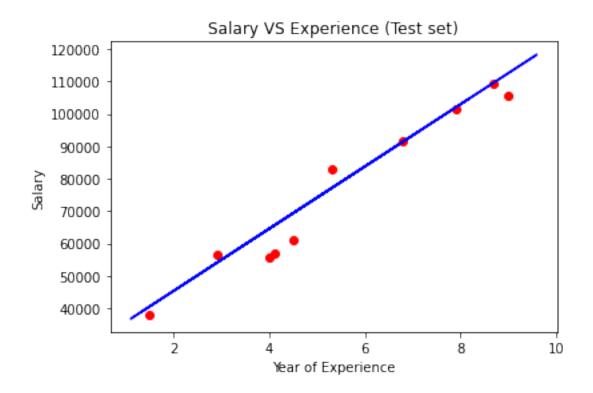
January 27, 2022

```
[]: import numpy as np
     import matplotlib.pyplot as plt
     import pandas as pd
     # Importing the dataset
     #dataset = pd.read csv('181105 missing-data.csv')
     dataset = pd.read_csv('salary_data.csv')
     dataset =dataset.dropna()
     X = dataset.iloc[:, :-1].values #get a copy of dataset exclude last column
     y = dataset.iloc[:, 1].values #qet array of dataset in column 1st
     #print(X)
     # 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)
     11 11 11
     # Scaling
     from sklearn.preprocessing import StandardScaler
     sc_X = StandardScaler()
     X_train = sc_X.fit_transform(X_train)
     X_test = sc_X.transform(X_test)
     # Fitting Simple Linear Regression to the Training set
     from sklearn.linear model import LinearRegression
     regressor = LinearRegression()
     regressor.fit(X_train, y_train)
     # Predicting the Test set results
     y_pred = regressor.predict(X_test)
     # Visualizing the Training set results
     viz_train = plt
     viz_train.scatter(X_train[:,0], y_train, color='red')
     viz_train.plot(X_train[:,0], regressor.predict(X_train), color='blue')
```

```
viz_train.title('Salary VS Experience (Training set)')
viz_train.xlabel('Year of Experience')
viz_train.ylabel('Salary')
viz_train.show()

# Visualizing the Test set results
viz_test = plt
viz_test.scatter(X_test[:,0], y_test, color='red')
viz_test.plot(X_train[:,0], regressor.predict(X_train), color='blue')
viz_test.title('Salary VS Experience (Test set)')
viz_test.xlabel('Year of Experience')
viz_test.ylabel('Salary')
viz_test.show()
```





[]: