

```
X_train=X_train.values.reshape(-1,1)
Y_train=Y_train.values.reshape(-1,1)
X_test=X_test.values.reshape(-1,1)
Y_test=Y_test.values.reshape(-1,1)
[168]:
          from sklearn.linear_model import LinearRegression
          model=LinearRegression()
         lr=model.fit(X_train,Y_train)
lr.score(X_train,Y_train)
 [169... 0.8838472271064208
        Find Coefficient and Predict
[170]:
         lr.coef_
[170... array([[0.62791701]])
         lr.intercept_
[171... array([7.22340726])
         Y_pred=lr.predict(X_test)
        Plot for linear regression
          import matplotlib.pyplot as plt
          plt.scatter(X_train,Y_train)
plt.plot(X_test,Y_pred)
[174... [<matplotlib.lines.Line2D at 0x7f74ab6c6050>]
        200 -
         175
         150
         125
         100
          75
          50
          25
                                        100
                                                    150
                                                               200
                                                                           250
        Accuracy
          {\tt test=pd.read\_csv('/kaggle/input/linear-regression-dataset/Linear\ Regression\ -\ Sheet1.csv')}
          X_test=np.array(test.iloc[:,:-1].values)
Y_test=np.array(test.iloc[:,1].values)
```





