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In [1]: import numpy as np
        import pandas as pd
        from matplotlib import pyplot as plt
        from sklearn.linear_model import LinearRegression
        from sklearn.model selection import train test split
        import sklearn.metrics as mc
In [2]: saldata= pd.read_csv('Salary_Data.csv')
        x= saldata.iloc[:,:-1].values
        y=saldata.iloc[:,1].values
In [3]: | xtrain,xtest,ytrain,ytest= train_test_split(x,y,test_size=1/3,random_state=0)
In [4]: | lr= LinearRegression()
        lr.fit(xtrain,ytrain)
        pred=lr.predict(xtest)
        pred
Out[4]: array([ 40835.10590871, 123079.39940819, 65134.55626083, 63265.36777221,
               115602.64545369, 108125.8914992 , 116537.23969801, 64199.96201652,
                76349.68719258, 100649.1375447 ])
In [5]: plt.scatter(x,y,color="green",marker="*")
        plt.scatter(xtest,pred,color="blue",marker="*")
        plt.plot(xtest,pred,color="red")
Out[5]: [<matplotlib.lines.Line2D at 0x152aa3d5b50>]
         120000
         100000
          80000
          60000
          40000
                                                       10
In [6]: #root mean squared error
        mc.r2_score(ytest,pred)
```

Out[6]: 0.9749154407708353