

```
In [1]: from sklearn.linear_model import LinearRegression
from sklearn.datasets import load_iris
iris = load_iris()
X = iris.data
y = iris.target
linreg = LinearRegression()
linreg.fit(X, y)
y_pred = linreg.predict(X)
print(y_pred)
linreg.score(X,y)
import matplotlib.pyplot as plt
plt.plot(X,y)
```

```
[-8.25493616e-02 -4.01284476e-02 -4.86276768e-02  1.22998627e-02
-7.53667248e-02  5.82910066e-02  3.83367194e-02 -4.44863248e-02
 1.98324281e-02 -8.21970989e-02 -1.01272512e-01  7.59348686e-04
-8.98630676e-02 -1.02503649e-01 -2.26652208e-01 -4.10494982e-02
-3.31670043e-02 -2.16241562e-02 -3.21980063e-02 -1.07834994e-02
-4.35196609e-02  5.41496547e-02 -1.22062394e-01  1.76835660e-01
 6.93528569e-02 -5.59002750e-03  1.00228589e-01 -7.08754443e-02
-8.97319983e-02  1.99658314e-02  1.27831946e-02  3.26017444e-02
-1.55848342e-01 -1.55367344e-01 -2.12718935e-02 -1.05063936e-01
-1.50176206e-01 -1.25101345e-01 -7.04002332e-03 -5.56769102e-02
-3.32980735e-02  7.07502372e-02 -1.50559206e-02  2.18071051e-01
 1.41599717e-01  3.19873432e-02 -4.88442021e-02 -1.45725887e-02
-9.00819270e-02 -6.33428789e-02  1.20248442e+00  1.28482413e+00
 1.32433716e+00  1.18543801e+00  1.31252984e+00  1.25733961e+00
 1.39866098e+00  9.05746439e-01  1.17548090e+00  1.24103868e+00
 9.56316654e-01  1.28019945e+00  9.50717416e-01  1.31522353e+00
 1.05874172e+00  1.17147061e+00  1.38236471e+00  9.75923347e-01
 1.34728479e+00  1.02151661e+00  1.59214618e+00  1.09825476e+00
 1.41552837e+00  1.19738107e+00  1.12926856e+00  1.18666915e+00
 1.26376188e+00  1.49544119e+00  1.34161032e+00  8.53934864e-01
 1.01385065e+00  9.30060938e-01  1.05204475e+00  1.54773844e+00
 1.40474588e+00  1.38249578e+00  1.30098933e+00  1.18737134e+00
 1.16905629e+00  1.17742211e+00  1.20394697e+00  1.28835108e+00
 1.07891720e+00  8.98563803e-01  1.20394464e+00  1.11980500e+00
 1.18473815e+00  1.15164973e+00  8.71689017e-01  1.16588160e+00
 2.24422636e+00  1.75289522e+00  1.90016020e+00  1.74232371e+00
 2.00536441e+00  2.00425879e+00  1.60258896e+00  1.79046937e+00
 1.75932217e+00  2.15435175e+00  1.71544659e+00  1.73148072e+00
 1.84227394e+00  1.81016241e+00  2.05351330e+00  1.95514179e+00
 1.69307008e+00  2.04479432e+00  2.19954392e+00  1.48398847e+00
 1.99064688e+00  1.78646464e+00  1.96302340e+00  1.59028808e+00
 1.88716969e+00  1.72104260e+00  1.57460622e+00  1.60064541e+00
 1.91791669e+00  1.56147908e+00  1.79848293e+00  1.83196924e+00
 1.97884189e+00  1.44923353e+00  1.53302790e+00  2.00059610e+00
 2.08783520e+00  1.70025272e+00  1.58897149e+00  1.80421091e+00
 2.05509670e+00  1.85746781e+00  1.75289522e+00  2.04756647e+00
 2.13087051e+00  1.90672143e+00  1.68209369e+00  1.74632699e+00
 1.99237157e+00  1.66875559e+00]
```

```
Out[1]: [<matplotlib.lines.Line2D at 0x25f6c3befd0>,
<matplotlib.lines.Line2D at 0x25f6c3cc0d0>,
<matplotlib.lines.Line2D at 0x25f6c3cc190>,
<matplotlib.lines.Line2D at 0x25f6c3cc250>]
```



