



```
model = smf.ols("np.log(robotics)~ np.log(volatility)", data = merged).fit() # fit model
print(model.summary()) #check summary stats
```

```

=====
                        OLS Regression Results
=====
Dep. Variable:          np.log(robotics)      R-squared:                   0.000
Model:                  OLS                  Adj. R-squared:              -0.066
Method:                 Least Squares         F-statistic:                 0.004381
Date:                  Sun, 15 Dec 2024       Prob (F-statistic):         0.948
Time:                  21:07:17              Log-Likelihood:              -9.8824
No. Observations:      17                   AIC:                        23.76
Df Residuals:          15                   BIC:                        25.43
Df Model:               1
Covariance Type:       nonrobust
=====
                        coef      std err          t      P>|t|      [0.025      0.975]
-----
Intercept              9.1697       1.026       8.938     0.000       6.983     11.356
np.log(volatility)     -0.0234       0.354     -0.066     0.948     -0.777      0.730
=====
Omnibus:               1.020      Durbin-Watson:              0.058
Prob(Omnibus):         0.601      Jarque-Bera (JB):           0.890
Skew:                  -0.351      Prob(JB):                   0.641
Kurtosis:              2.125      Cond. No.                   29.8
=====

```

Price	Adj Close	Close	High	Low	Open	Volume
Ticker	^VIX	^VIX	^VIX	^VIX	^VIX	^VIX
Date						
2004-01-02	18.219999	18.219999	18.68	17.540001	17.959999	0
2004-01-05	17.490000	17.490000	18.49	17.440001	18.450001	0
2004-01-06	16.730000	16.730000	17.67	16.190001	17.660000	0
2004-01-07	15.500000	15.500000	16.75	15.500000	16.719999	0
2004-01-08	15.610000	15.610000	15.68	15.320000	15.420000	0