

# ETF Based Pairs Trading Strategy with XOM and XLM

**Cointegration Strategy** 

Pragathi Arunkumar

## Strategy Overview



When XOM outperforms relative to XLE, we go short

When XOM underperforms relative to XLE, we go long

SPY is used to hedge the strategy

# Regression

#### XOM = 0.9068XLE - 0.0875SPY

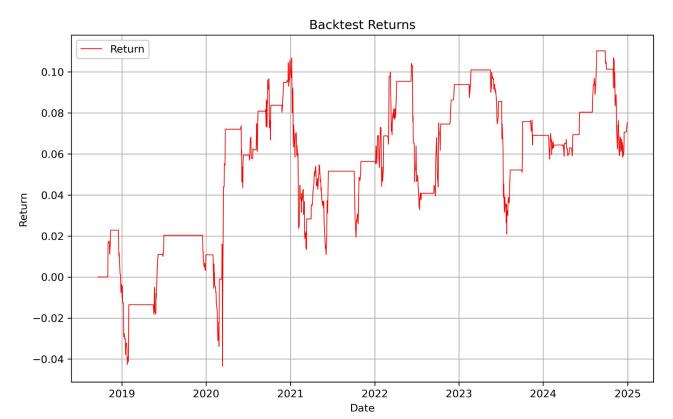


	coef	std err	t	P> t	[0.025	0.975]
Intercept	0.0001	0.000	0.719	0.472	-0.000	0.000
XLE	0.9068	0.011	86.055	0.000	0.886	0.928
SPY	-0.0875	0.018	-4.927	0.000	-0.122	-0.053

#### **OLS Regression Results**

Dep. Variable:	XOM	R-squared:	0.864
Model:	OLS	Adj. R-squared:	0.864
Method:	Least Squares	F-statistic:	5598.
Date:	Tue, 23 Sep 2025	Prob (F-statistic):	0.00
Time:	23:44:45	Log-Likelihood:	6187.9
No. Observations:	1760	AIC:	-1.237e+04
<b>Df Residuals:</b>	1757	BIC:	-1.235e+04
Df Model:	2		
Covariance Type:	nonrobust		

### Results



**Cumulative Returns:** 7.52%

**Sharpe Ratio:** 0.17

Max Drawdown: 0.136