

Mathematical Trading Strategies

Assignment 2

Description:

1. Correlation analysis:
 - Calculated the correlation between the closing prices of NASDAQ and NSE.
 - Explored the relationship between the two stock market indices.
 - Found a correlation between the movements of NASDAQ and NSE.
2. Lead-lag relationship:
 - Investigated the time lag effect by offsetting the NSE and NASDAQ data.
 - Observed that the correlation increased when NSE led the market compared to NASDAQ leading.
 - Concluded that NSE has a predictive influence on NASDAQ based on the lead-lag relationship.

But yet due to some errors in the code, I couldn't get much profit though some correction in the would may lead to.

	MACD	Bollinger Bands	Keltner Channels
Cumulative returns	15.61%	10.6%	12.27%
Sharpe Ratio	0.16	0.24	0.46
Max Drawdown	-40.87%	-32.16%	-25.25%