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Wall Street Horizon

Trading with Corporate Event API Data

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WALL STREET HORIZON
A **TMX** COMPANY

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 **InteractiveBrokers**

Trading with Corporate Event API Data

Wall Street Horizon

- 20 years of experience focused solely on providing the most accurate corporate event data in the industry.
- Optimized process of gathering **primary** sourced data using proprietary algorithms, and proactive outreach from in-house analysts.

Industry Accolades

Data Management Insight Awards | 2021

Fund Intelligence Operations & Services Awards | 2022, 2021, 2020

Fund Intelligence Tech and WSL Awards | 2020, 2019

HFM European Quant Services Awards | 2021

HFM US Quant Services Awards | 2022, 2020

HFM US Services Awards | 2021, 2019

HFM US Technology Awards | 2022, 2021

Trading Tech Awards | 2019

Technical Analyst Awards | 2020, 2019

WealthTech 100 Awards | 2020

Speaker Background



Matthew Trummer
IBKR API Program Manager
Wall Street Horizon

- 5+ years previous experience with IBKR, previously managed IBKR's 3rd Party API onboarding

Speaker Background



Christine Short
VP of Research
Wall Street Horizon

- Corporate earnings expert with 15 years in the financial data industry
- Research has been featured in several top tier media outlets such as WSJ, FT, Barron's
- Industry conference speaker and on-air guest for Yahoo Finance, Cheddar TV and CNBC

KEY PRODUCTS



One of world's leading certification courses in Algorithmic & Quantitative

Trading



quantra

Machine-enabled & self-paced platform with 40+ courses & more than 180k registered users



blueshift

Research & Trading Platform

with complete integration to the learning platforms.

About QuantInsti

QuantInsti is one of the world's leading algorithmic & quantitative trading training & research institutes. It specializes in the application of data science & technology across the Financial services domain.

With FinTech & data science playing a major role in the evolution of the markets, QuantInsti helps its audience grow in this domain through its unique learning & financial application based ecosystem for B2C, as well as for Businesses through its SaaS platform offerings.

QuantInsti caters to its users from 190+ countries and territories through its registered offices in India & Singapore.

3M+

HOURS CONTENT CONSUMED ANNUALLY

300+

CORPORATE PARTNERS ACROSS 20 COUNTRIES

1M+

USERS CONSUMING CONTENT EACH YEAR

75+

FULL TIME TEAM MEMBERS

190+

COUNTRIES HAVE QUANTINSTI USERS

\$6B+

PAPER TRADING VOLUME ON BLUESHIFT

Speaker Background



Rekhith Pachanekar
Sr. Quant Associate
QuantInsti

- Rekhith Pachanekar first completed his engineering in Computers and went on to complete his PGDM from IIM Indore.
- He researches equities and fixed-income securities as a part of the content team at Quantra.
- Away from work, he likes to read up on the outliers in the market and follows Tesla Inc. with keen interest.

Why Do Corporate Events Matter?

- Corporate events - any single-company event that can cause **volatility** in the marketplace
 - Examples: analyst/investor events, earnings announcements, dividends, corporate actions
- Events created by publicly traded companies provide compelling insight into overall financial health
- Corporate event data is used for generating alpha or mitigating risk
- Beyond just being aware that these events are happening, it's important to know when the content or timing of events have changed

Example: First Republic Bank

- For Q1 2023 earnings, First Republic Bank delayed their announcement to Monday, April 24 from an expected report date of Thursday, April 13
- We've been tracking this name since 2006 and observed this was a significant outlier, suggesting the company was getting ready to report bad news, as detailed in academic research findings



Source: IBKR TWS

Wall Street Horizon

Corporate Event Data API

- Free trial for first-time subscribers
- Recently enhanced, Earnings Dates and Dividends Announcements now updated 20x more often
- Over 20+ event types are available, including:
 - Earnings Dates
 - Dividend Announcements & Status
 - M&A Events
 - Stock Buybacks
- Data coverage includes 10,000+ public companies worldwide.

How To Subscribe to the Data

To begin your free trial or subscribe:

A) Click the button at <https://www.wallstreethorizon.com/interactive-brokers>

OR

B) Follow the steps below:

- 1) Log in to Account Management
- 2) Select User Settings
- 3) Select Research Subscriptions
- 4) Select the Current Research Configuration Icon
- 5) Find Wall Street Horizon Corporate Event Data, and check the box next to it
- 6) Select Continue and complete remaining prompts

Event Types

Earnings Events

- Earnings Announcement Dates
- Earnings Confirmation Timing
- EPS Results
- Earnings Conference Calls
- Future Quarters
- Interim Calendar

Investor Conference and Events

- Analyst Days
- Board of Directors Meetings
- Business Updates
- Capital Markets Days
- Company Travel
- General Conferences & Presentations
- R&D Days
- Road Shows
- Seminars
- Shareholder Meetings
- Summits
- Trade shows
- Workshops

Announced Dividends and ETFs

- Dividend Announcement Dates & Status
- Dividend Suspends and Resumes
- Dividend Pay, Record, and Ex dates

Merger Events

- Mergers & Acquisitions
- Spinoffs

Stock Events

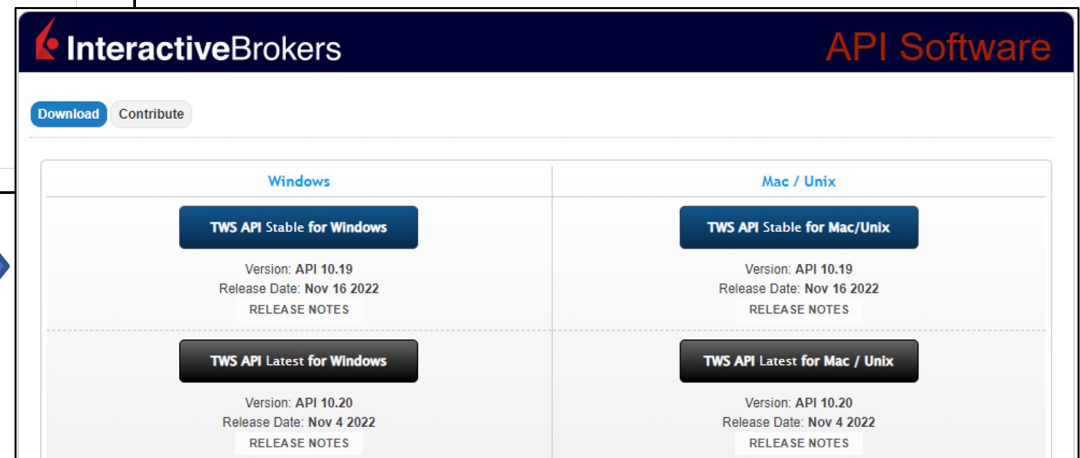
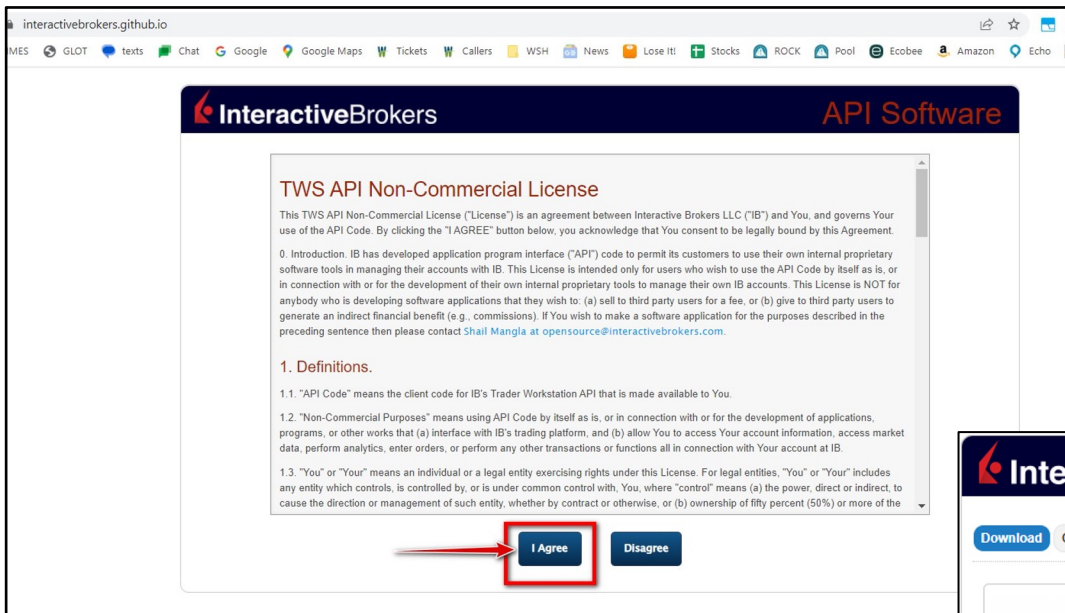
- Buybacks
- Secondary Offerings
- Splits
- IPOs

Other Events

- Movie Releases
- Video Releases
- Filing Due Dates
- FDA Advisory Committee Meetings

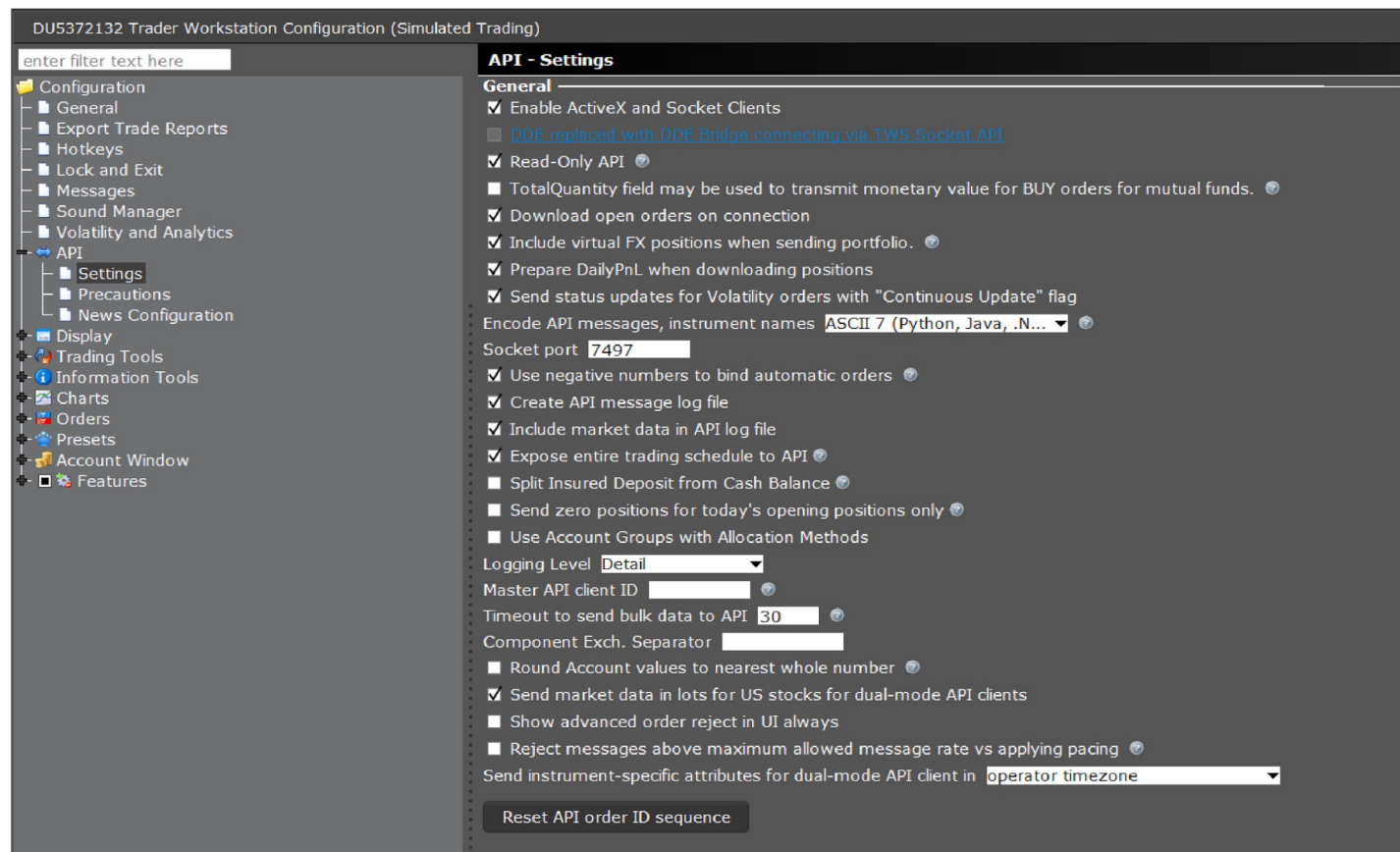
Wall Street Horizon Corporate Event Data via IBKR TWS API

- Step 1: Download IBKR's TWS API here <https://interactivebrokers.github.io>



Wall Street Horizon Corporate Event Data via IBKR TWS API

- Step 2: Setup API Settings in TWS under File -> Global Configuration -> API -> Settings, match the Settings as seen below then click Apply and OK



Wall Street Horizon Corporate Event Data via IBKR TWS API

- Step 3: You should now be able to access the Wall Street Horizon Corporate Event Data service via the TWS API! Additional information on the API and available filters can be found here: <https://interactivebrokers.github.io/tws-api/fundamentals.html>
- Sample JSON response for a Dividend Announcement:

```
{
  "index_date_type": "DATE",
  "event_type": "wshe_div",
  "data": {
    "pay_date": "20230414",
    "record_date": "20220331",
    "dividend_oc": "0.05333",
    "change_percent": "0.0%",
    "frequency": "12",
    "change_amount": "0",
    "dividend_currency": "CAD",
    "fiscal_year": "2023",
    "company": {
      "contract_description": "Nexus Industrial REIT",
      "contract": "CA:NXR.UN",
      "isin": "CA65344U1012"
    },
    "announce_datetime": "20230315T025300+0000",
    "wshe_approval_status": "APPROVED",
    "time_period": "M03",
    "ex_div_date": "20220330"
  },
  "conids": [
    "548899273"
  ],
  "index_date": "20220330",
  "source": "WSHE",
  "event_key": "E4XPM003A",
  "tooltips": {},
  "status": ""
},
```


Wall Street Horizon Corporate Event Data via IBKR TWS API

This PC > OS (C:) > TWS API > samples > Python

Name	Date modified	Type	Size
ibapi	1/18/2023 10:21 AM	File folder	
Testbed	1/18/2023 9:15 AM	File folder	
get_event_data	4/19/2023 3:22 PM	Python File	6 KB
get_event_data_alt	3/22/2023 11:51 AM	Python File	6 KB
get_metadata	1/18/2023 10:17 AM	Python File	3 KB
metadata	4/19/2023 11:45 AM	JSON File	318 KB
wshe_div	4/19/2023 3:22 PM	JSON File	3,481 KB
wshe_eps	4/19/2023 11:48 AM	JSON File	2,985 KB
wshe_ic	4/19/2023 3:20 PM	JSON File	6,976 KB

Key Notes:

- Remember to return metadata before pulling event data!
- Close command window between calls!

Additional Info and Resources:

- <https://www.wallstreethorizon.com/interactive-brokers>
- <https://interactivebrokers.github.io/tws-api/fundamentals.html>

Post-Earning Announcement Drift (PEAD) Strategy

By QuantInsti

What is PEAD?


- Research shows that it takes time for the market to incorporate news events information into stock prices.

Does this happen in real life?

- Example: Amazon
- Amazon announced earnings on Feb 2, 2023

 Seeking Alpha

Amazon.com, Inc. (AMZN) Q4 2022 Earnings Call Transcript

 Amazon.com, Inc. (NASDAQ:AMZN) Q4 2022 Earnings Confer
Company Participants. Dave Fildes - Director, IR.

02-Feb-2023

Amazon stock drops after revenue beat, EPS miss

Amazon's (AMZN) Q4 2022 earnings report, released on Feb. 2, featured mixed results. The company clocked a revenue beat, but missed both EPS and Q1 guidance...

02-Feb-2023



 The Motley Fool

Amazon.com (AMZN) Q4 2022 Earnings Call Transcript

Amazon.com (AMZN) Q4 2022 Earnings Call Transcript. By Motley Fool Transcribing
Feb 2, 2023 at 10:00PM. You're reading a free article with opinions that...

02-Feb-2023



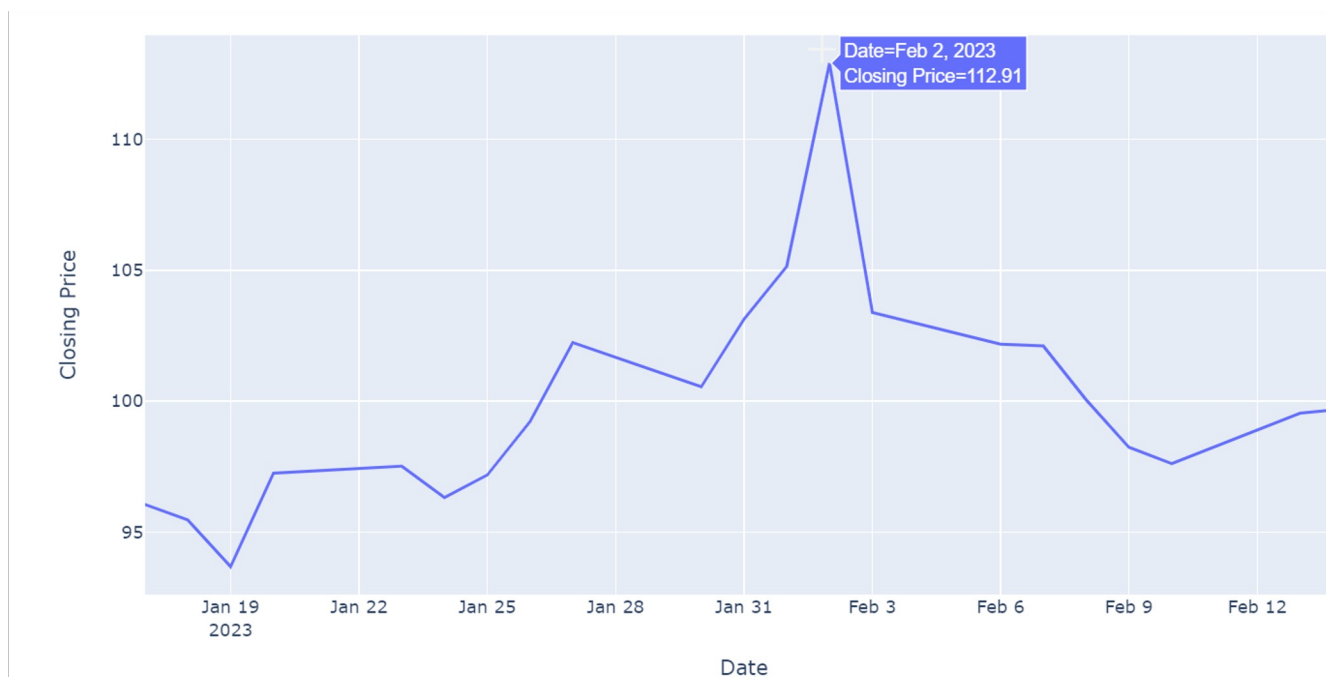
Wall Street Horizon

<https://www.wallstreethorizon.com> > amazon-earnings...

Transcripts

Does this happen in real life?

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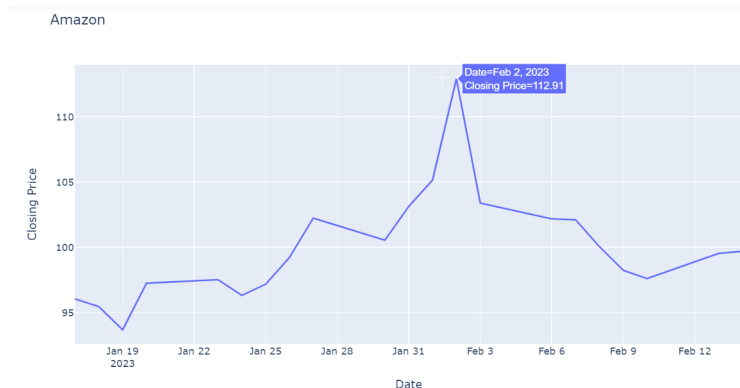


Source: Yahoo Finance

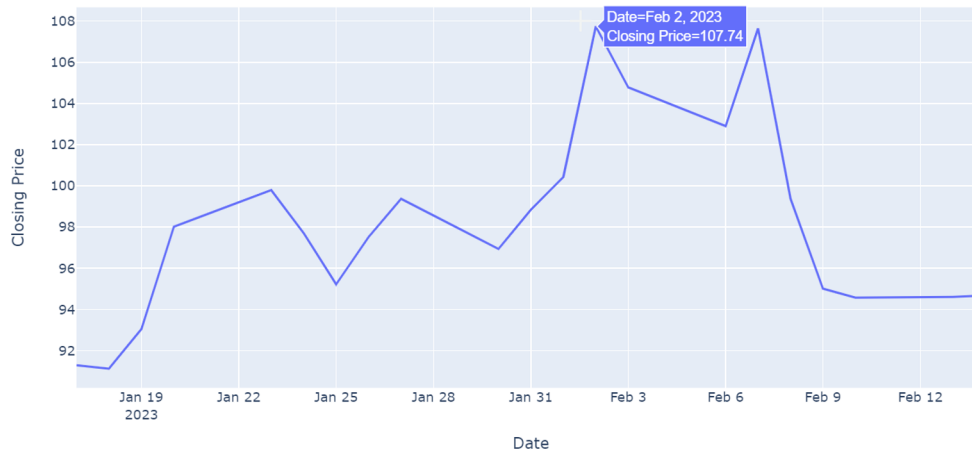
Does this happen in real life?

- Let us see some more examples

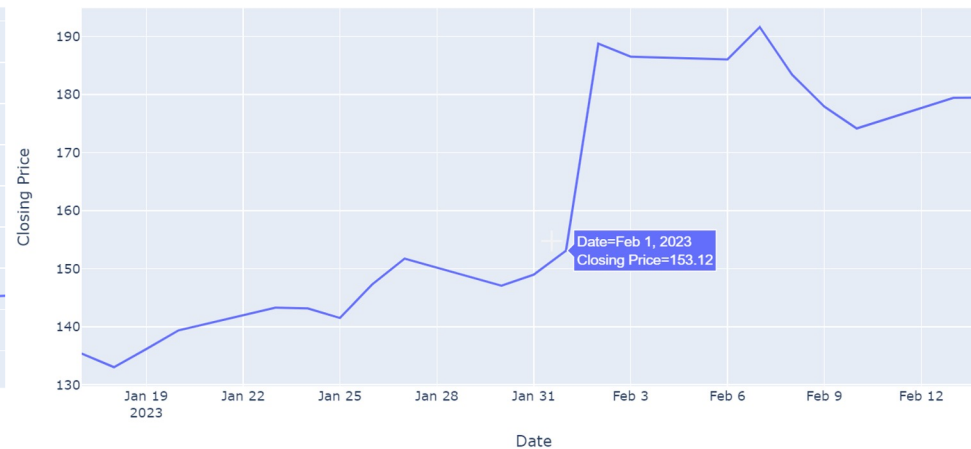
- Google
- Meta



Google Earnings report on Feb 2, 2023



Meta Earnings report on Feb 1, 2023



Source: Yahoo Finance

What is PEAD?

- Research shows that it takes time for the market to incorporate news events information into stock prices.
- This time could be in hours or days

How to use the PEAD Strategy?

- What do you need?
 - Earnings date of company (Retrieved through Wall Street Horizon)
 - OHLC data of the company
 - Two data points to look at
 - Close price on the day the earnings result is announced
 - Open price of the day after the earnings result is announced

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- **Example** : Amazon (Result announced on Feb 2, 2023)

Date	Open Price	Close Price
Feb 2, 2023	110.25	112.91
Feb 3, 2023	105.26	NA

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How to use the PEAD Strategy?

- Simply calculate: (Open price on day after result) - (Close price on day of result)
 - $105.26 - 112.91 = -7.65$
- What do you think is market's reaction?

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- What should you do when result is negative ?
 - You will Sell (short) the asset

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 - You will Sell (short) the asset
- What should you do when result is positive ?
 - You will Buy the asset

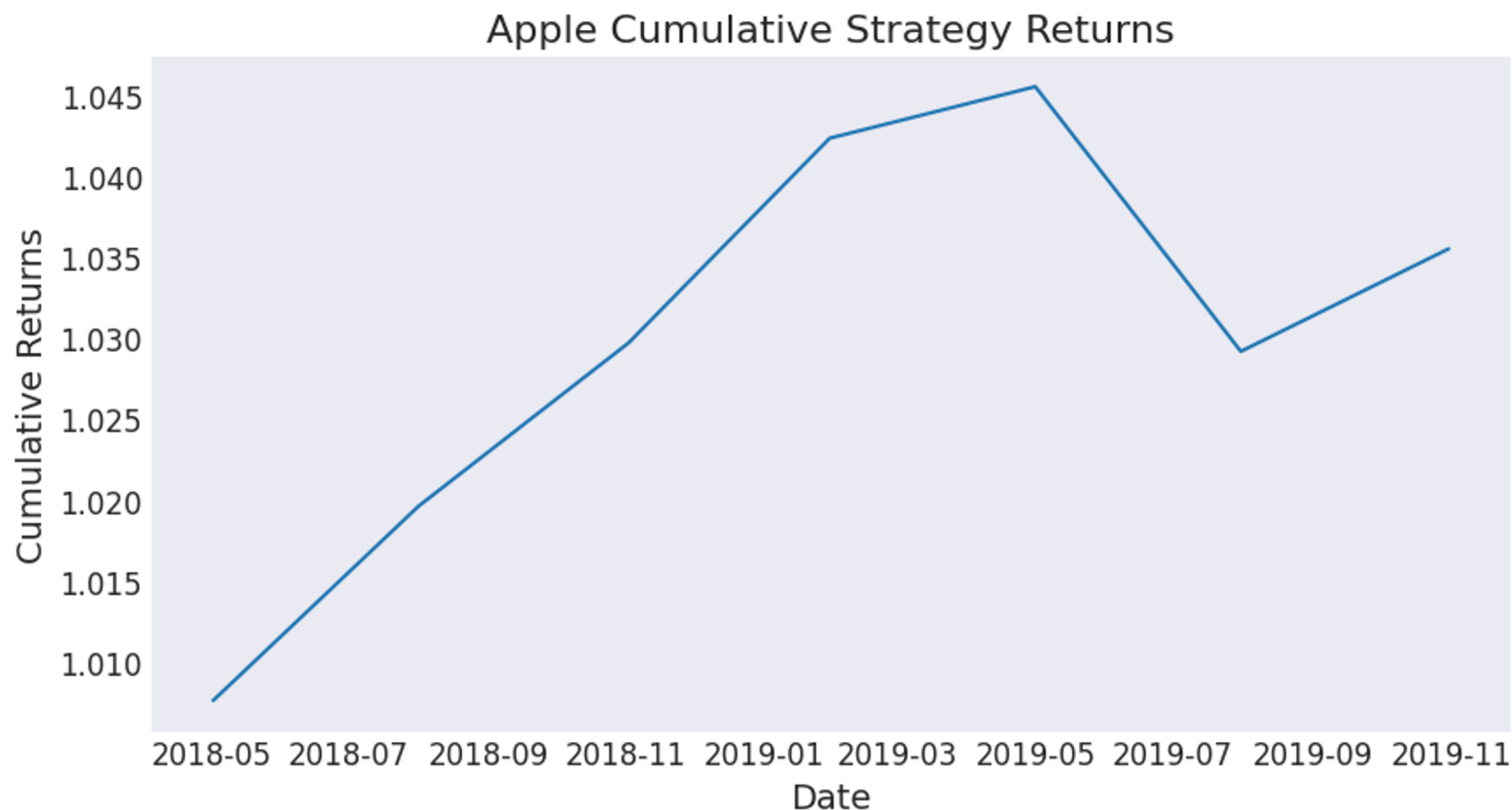
Date	Open Price	Close Price
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Feb 3, 2023	105.26	NA

How to use the PEAD Strategy?

- Calculate standard deviation of returns
 - Take last 90 days returns as reference
- If the returns on the next day are **more** than 25% of standard deviation, then we **Buy**
- If the returns on the next day are **less** than 25% of standard deviation, then we **Sell**



How does this strategy perform?




Source: Day Trading Strategies Course, Quantra

Quantra Course: Day Trading Strategies



For More Information

- Wall Street Horizon is a proud contributor of  **InteractiveBrokers**
- For more info on Wall Street Horizon's Corporate Event Data via Interactive Brokers TWS API visit:
<https://www.wallstreethorizon.com/interactive-brokers>