



Infi-flux

Products & Accuracy Metrics

List of Products

- DayBreak
- MidDay

Details:-> DayBreak

The Product DayBreak is specifically designed to guess the sentiment of particular instruments of stock markets as Bearish or Bullish in between the first quarter of the NEXT day ignoring weekends and holidays of that particular Instrument right after the market opens for the next day.

Metric Algorithm for DayBreak Accuracy:

Output :-> by DayBreak

[If the Output of DayBreak is Bullish:

. And [if, the previous day's close < (**less than**) [price of the Instrument occurred
. . anywhere during the first quarter of the NEXT
. . day for this particular Instrument at least **ONCE**]:

The guess made by DayBreak is correct.

Else:

The guess made by DayBreak is Incorrect.

•]

Else if the output of DayBreak is Bearish:

And [if, the previous day's close > (**greater than**) [price of the Instrument occurred anywhere during the first quarter of the NEXT day for this particular Instrument at least **ONCE**]:

The guess made by DayBreak is correct.

. Else:

The guess made by DayBreak is Incorrect.

•]

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NOTE-> The previous close is the closing price of the instrument and not the adjusted close on the date used by DayBreak as a Reference point. If DayBreak is guessing Bullish or Bearish for say day (X). The Opinion is for X+ days whenever the market is going to Open.

X+ means the next working day where holidays and weekdays are included in +. If a date of Friday is used by DayBreak normally the guesstimate is for Monday if there are no Holidays.

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In case of Holidays, the immediate working day should be considered. Every Product of Infi-flux will use the present date to guess for the next day.

Details :-> MidDay

The Product MidDay is specifically designed to guess the sentiment of particular instruments of stock markets such as Bearish or Bullish in between the second half to the end of the NEXT day for that particular instrument. In Simple words, from “Mid-day to end of the day”.

Metric Algorithm for MidDay Accuracy:

Output :-> by MidDay

[If the Output of MidDay is Bullish:

. And [if, the closing price at the end of the **first quarter** of the Next day < (**less than**)
. [price of the Instrument occurred
. anywhere during the SECOND HALF of the NEXT
. day for this particular Instrument at least **ONCE**]:

. The guess made by MidDay is correct.

. Else:

. The guess made by MidDay is Incorrect.

.]

Else if the output of MidDay is Bearish:

. And [if, the closing price at the end of the **first quarter** of the Next day > (**greater than**)
. [price of the Instrument occurred
. anywhere during the SECOND HALF of the day
. for this particular Instrument at least **ONCE**]:

. The guess made by MidDay is correct.

. Else:

. The guess made by MidDay is Incorrect.

.]

]

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NOTE-> The First quarter of the next day is the one-fourth mark of the next day. The output of both DayBreak and MidDay are placed as Opinions generated One day Before the financial/stock market Opens. To eliminate any confusion and keep things simple. Both of the product uses the previous day's date as a tag. If any of the products DayBreak or MidDay is using X date, it means the opinion generated for [X+] The next day whenever the stock markets open skipping any holidays, weekdays, etc.

The Reference point for MidDay is different. You may have noticed in the algorithm above. The close price stated is the closing price of the first quarter of the next trading day. If MidDay is guessing Bullish or Bearish for say - day (X). The Opinion is for X+ days whenever the market is going to Open. X+ means the next working day where holidays and weekdays are included in +. For example, If a date of Friday is used by MidDay normally the guesstimate is for Monday if there are no Holidays. In case of Holidays, the immediate working day should be considered. DayBreak and MidDay Products of Infi-flux will use the present date to guess for the next day.

Our Product's output is presented at a competitive cost as an incentive to Users of Infi-flux to enter Financial markets to pursue our Vision. Our product can only be purchased by our internal credit system called Infi-Wallet. Credits to Infi-Wallet can only be added through third-party payment gateway systems and, Infi-flux may give out offers ONLY to the Subscribers of our newsletter decided by our board from time to time. The board periodically reviews and determines credit offerings, considering various factors such as business performance, customer relationships, and market conditions.

RECORDS: Purchased products dedicated to a particular day will be displayed under the RECORD Section of our website. Where user will be given multiple options to retrieve Top N records sorted by Date where N is the number of records that were purchased will be displayed. We also have displayed the Forward testing accuracy of how our current platform is performing on Live market data. A slightly different principle is used for forward testing concerning dates and the tags used. Let's Say X is a date with say Y accuracy displayed. The Y is the accuracy for that day X itself. It says how the platform performed on day X where X-r is the day when the prediction was made for day X where r is the difference between X and the immediate previous day when the prediction in the form of opinion was made.

So what does the Current date mean? It means that any of our products' latest generated Opinions will be tested for that current date. For example, our platform generates opinions on Monday for the next immediate day whenever the markets are open. Let us assume the next day Tuesday, the market opens. Our Platform waits for the market to close and then checks if the predictions are correct or incorrect. This process is repeated for the entire opinions that were generated for the Tuesday market across the platform. This is the reason the dates used in this case for the forward testing accuracy table will be –Tuesday, the current day. There may be a case where markets are closed on Monday and open directly on Tuesday. Such cases are handled. We ask you to be vigilant about the workings of respective stock markets. Please check for every single Opinion purchased generated for different instruments of different stock markets opinionating for that particular day. In the above test case, Tuesday. An aggregate will be performed for all those opinions that are targeted to the current day, say Tuesday, and is converted into a simple percentage of correct Opinions out of total Opinions.

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You may have noticed that the last two columns of the Products purchased in the record section contain a Waiting message in DayBreak_acc and MidDay_acc. While forward testing accuracy check, our platforms also calculate how many maximum pips/points the move of that instrument was in the stated direction in terms of Bullish or Bearish in cases where the Opinions generated are correct, and in cases where the Opinions were incorrect, the platform registers the message as “Unforeseen Variance” for both DayBreak_acc and MidDay_acc respectively.

Extra Notes

Concepts of Game theory can be applied to Financial/stock markets. Game theory cannot be seen as a formal structure in Financial/stock markets, but the models, concepts, principles, and framework can be applied to it and people do so by trying to guess the moves of other players in the game (stock/financial markets). The point to focus on is the VARIABLE time. Yes, time is a hugely important aspect of game theory. If a short amount of time is provided, players have very little time to think of different moves that could give them an edge. If the time gap is increased, in our case (Holidays) / Weekdays, players get to think of the variety of moves to make in the stock markets that they think could give them an edge. Also if more time gap is experienced, more players can enter if the entry to the game is public like in financial markets. These are some of the many reasons we believe and experienced that stock markets become more chaotic than usual after a gap in trading days. It goes both ways. In someone's perspective. It gives you an ample amount of time to think of different kinds of moves that your opponent makes and your opponent is going to do the same. In simple words, More time, More numbers of moves, more number of orders, more number of players, more different possible outcomes, more chaos. The time gap is directly proportional to Uncertainty in financial markets.

In these scenarios, core technical and historical patterns will not help you much. When there is a gap, gauging the Fundamentals, and market sentiments with reason technical will narrow down your scope of good moves that can give you an edge. You can find evidence of the argument that Financial markets are known to show movements that have never been seen before, and it does because if they showed repeated movements, there would be an authorized textbook for perfect investing, which we believe is a myth.

All we have to say is when a gap occurs, or markets get more time from holidays, weekdays, or breaks.

BE CAREFUL.

A product index is also provided under our guide section where links to external websites it contains Index Composition/constituents, Historical Performance, Intraday Prices, Performers, Historical Data, Related Instruments, Factsheet, Methodology, Characteristics, Components, Market Rules, Index Rules, Eligibility Criteria, Quotation, Sector profiles, Formulas, Linked products. As the information we stated is provided and maintained by third-party websites, we have no control over this information. If you are unable to find what you are looking for. We recommend you use GPT models like Gemini or ChatGPT. In this case, Gemini has updated information about financial products compared to the free product of ChatGPT 3.5. Please try both.

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Note: While calculating the parameters like Daybreak_acc and MidDay_acc, the value might come out to be around the value of the instrument which may likely caused by an abnormality in Data provided by our third-party data provider as data available in the public domain does NOT guarantee data accuracy with certainty or calculation error by us. Please verify the product accuracy by Yourself. Be vigilant.

Statistics & Details for the Products.

Index	Type	Products	Test_type	Accuracy	Mean_err	Median_err	Stdv_err	Var_err	Count
0	Indices	DayBreak	Normal	80.12821	14.65721	14.68803	7.999563	68.10448	234
1	Indices	DayBreak	Out of bag	76.0175	14.1342	14.03433	7.887202	65.00062	234
2	Indices	MidDay	Normal	75.55556	14.01227	13.88889	8.296305	71.65244	234
3	Indices	MidDay	Out of bag	76.2556	14.51587	14.55769	7.658241	62.13693	234

Mean, std-deviation, and variance are the respective of the ERROR aggregate (MEAN) of each particular Instrument measures of the index of the day when an ERROR occurred for the index of the day when that error occurred on, the n^{th} day ranging from $n \gg [1-30]$, back-tested on 30 days consecutively for respective products just to give an idea of the error spread through these 30 days. About the Test type, normal is the immediate un-touched, un-seen 30 days data tested upon. Out-of-bag time is where further simultaneous 30 days after Normal 30 days test data were picked up for testing.

DayBreak and MidDay are combined into a single product placed as an Opinion of the underlying Type of financial instrument leveraging concepts like quantitative analysis, Big data, business analytics, Artificial intelligence, and fintech ... to answer one simple question on a global scale,

What's Tomorrow?

We are committed to delivering innovative and efficient AI digital products. While ensuring a high-quality final product is our top priority, we understand the importance of quick turnaround times. Currently, our AI products operate with a minimum 8-hour + digital delivery timeframe after the respective financial Markets close around the Globe. This allows our team members to meticulously build, and refine the AI, ensuring it aligns with specific requirements and delivers optimal best possible results. However, we are constantly researching and implementing advancements to streamline our development process. We are confident that this timeframe will continue to decrease in the future, allowing us to deliver exceptional AI products even faster. Credits rates for our products are 3 credits per dollar. Each unique product containing DayBreak & MidDay can be purchased with 1 credit.

To know the exact time of the first quarter closing and the beginning of the second half opening for given recent days for any instrument, please use the below Python code in any Python environment. (i.e. Colab) where the Yfinance library is installed using "pip install

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Yfinance". Replace the ticker symbol according to your requirement or just ask the AI-GPT models to modify the below code for you.

```
#####
import yfinance as yf
import pandas as pd
ticker_symbol = '^NSEI' ## replace the ticker symbol according to your requirements.
data = yf.download(ticker_symbol,interval = '1m')
data.reset_index(drop = False, inplace = True)
li = data.DateTime.dt.strftime("%Y-%m-%d").unique()
ti = []
for i in li:
    fd = data[data.DateTime.dt.strftime("%Y-%m-%d").str.contains(i)]
    ti.append([
        i,
        str(fd[:int(len(fd)/4)].iloc[-1].DateTime).split(' ')[1],
        str(fd[int(len(fd)/2):].iloc[0].DateTime).split(' ')[1]
    ])
ti = pd.DataFrame(ti, columns = ['Date', 'End_of_first_quarter', 'Start_of_second_Half'])
ti[:1]
#####
```

Note: Every Opinion by any of our products is Machine-computer-generated outputs that constitute Algorithms, models, processes, Business Analysis & understanding approaches that employ Quantitative and Artificial Intelligence combining Machine learning, Deep learning, and Solution AI Applications concepts which are all designed by member/s of Infi-flux. Infi-flux aims to maintain the highest standards possible in terms of providing services, performance, and accuracy of the Opinions generated. Infi-flux has its own Internal basic Performance and accuracy tracking systems in place that ensure conditions and required standards set by Infi-flux Employee/s which ensure each product's performance and accuracy is generated to the best of our abilities. If any of the conditions or pre-defined standards are violated, in that case, Indices/Instruments will be dropped from the Dashboard in real-time. These dropped indices/ Instruments will be added back to the portfolio only in case when they follow the previously mentioned conditions and pre-defined standards. Our system will not delete the previous opinions purchased by our users of these dropped products. These conditions may be changed in the future based on the feedback and requirements of our clients which are you guys.

How to use our product:

Our flagship products DayBreak and MidDay provide insights into different financial markets across the board. However, we are not a financial advisory firm. We are a Synthesis research fin-ed-tech firm. Due to legal constraints across various jurisdictions, we are unable to offer specific guidance on how to utilize our flagship product to give you an edge in the world of investing as it may place us in the advisory industry instead of the Synthesis research fin-ed-tech sector. We are only allowed on a broader aspect of selling our product by displaying performance Metrics, what does it do? why it was created? And educational materials related to our product. The reason for entering into the synthesis

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research fin-ed-tech sector and not the advisory sector is simple. It would be extremely difficult if not next to impossible to obtain certifications from every jurisdiction and clear all legal requirements for our flagship product to market. 20+ jurisdiction to be exact.

But what can we do is provide you with a bunch of questions that may give you an idea of how to use our product. You can find answers to the following questions by feeding the below query to any one of the popular recognized GPT models. Recommended are Chat-GPT, Gemini, and Copilot.

- Suppose we have access to a portfolio that predicts 200+ indices of 25 Stock exchanges around the globe with an accuracy of 60-70 % for tomorrow ONLY! How can we use it?

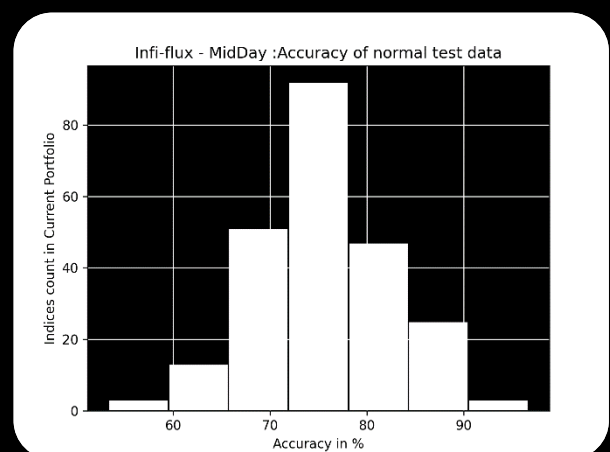
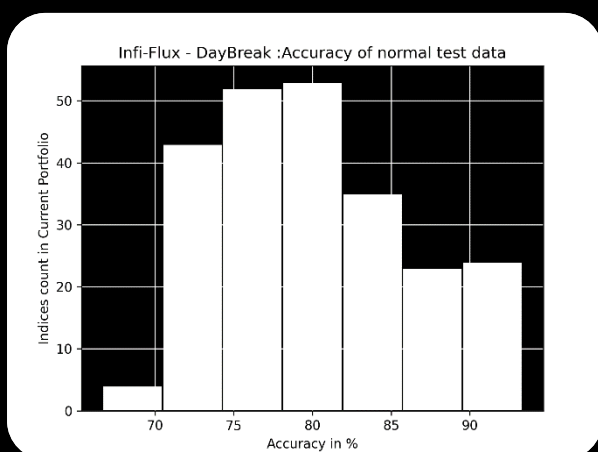
Now increase the accuracy for the same and re-enter your query again, the example is pasted below.

- Suppose we have access to a portfolio that predicts 200+ indices of 25 Stock exchanges around the globe with an accuracy of 70-80 % for tomorrow ONLY! How can we use it?

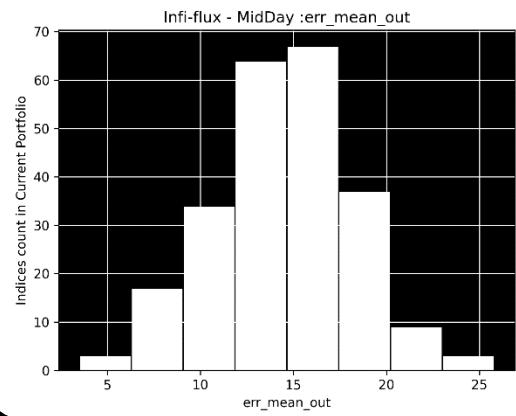
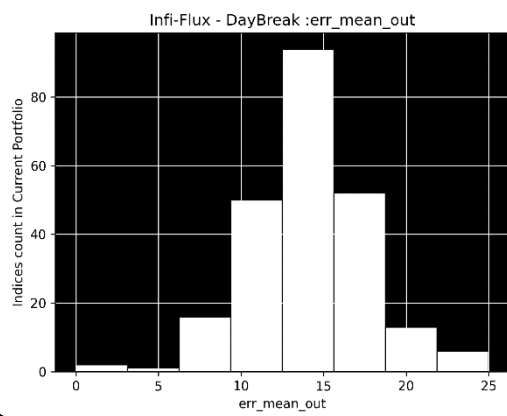
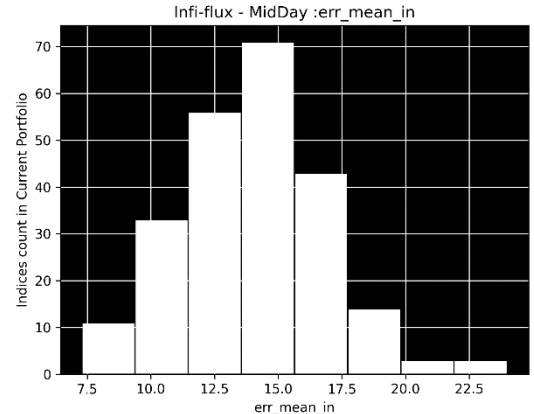
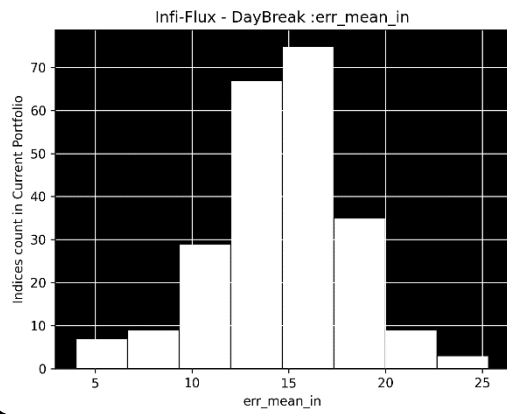
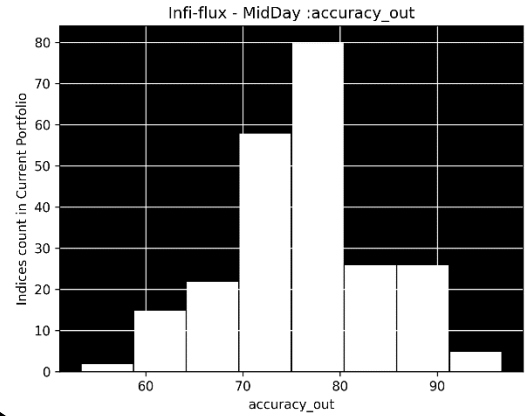
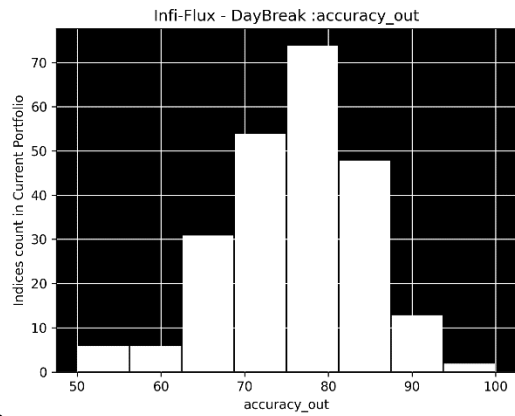
When you have received answers to the above queries, we request you to type “more” till your GPT provider repeats itself.

We humbly request you to subscribe to our NEWSLETTER option stated under our guide section and SOCIAL MEDIA HANDLES to stay updated with our research, algorithms, insights, internal and public resource updates, and much more complex, innovative, sophisticated products with their updates.

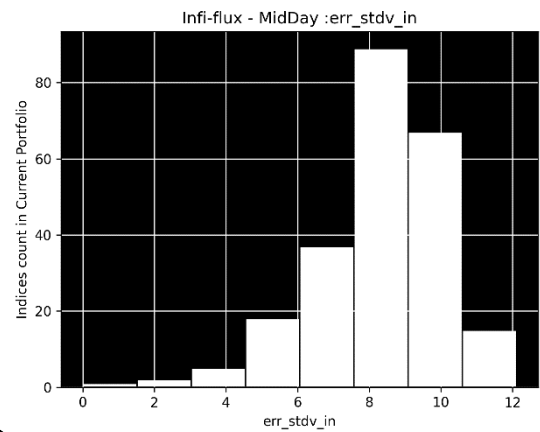
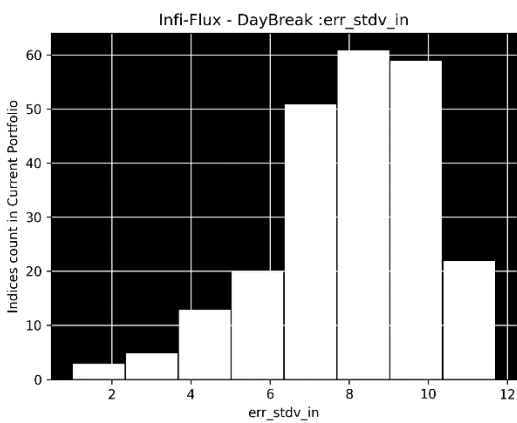
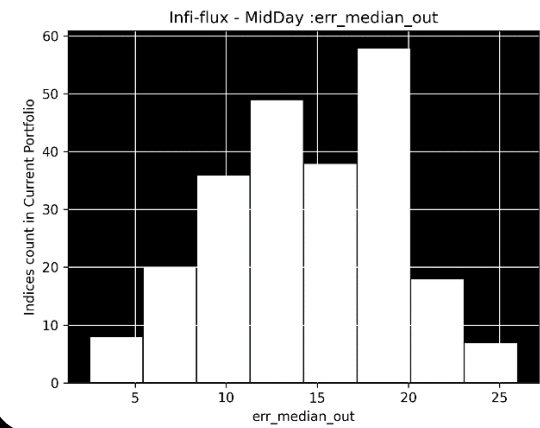
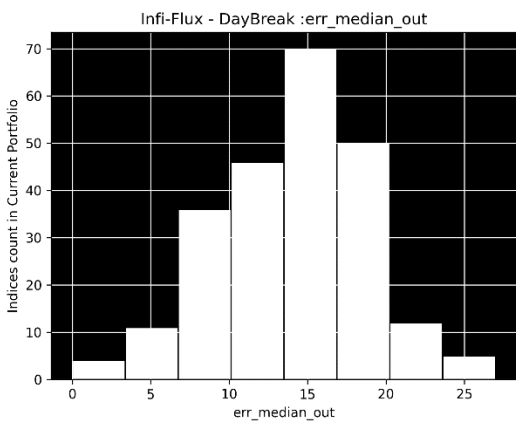
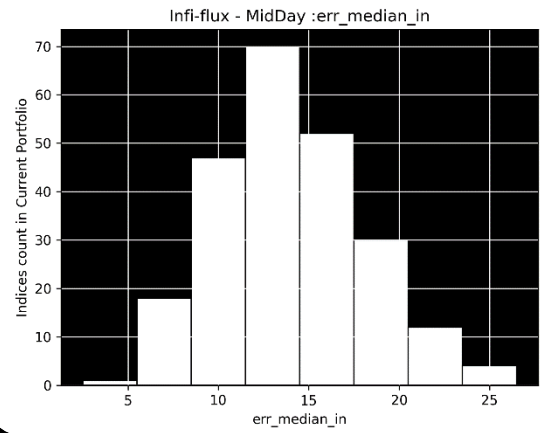
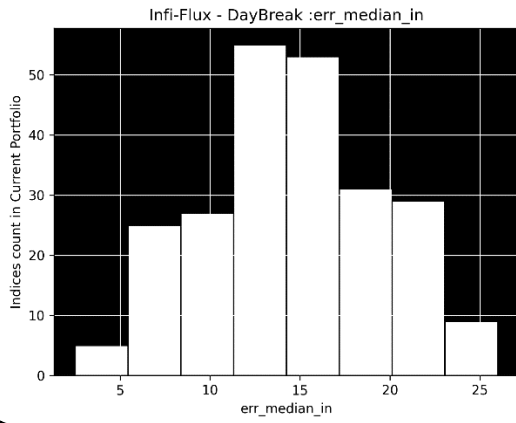
Following are the plots of each product w.r.t their metrics mentioned in the Statistic table above.



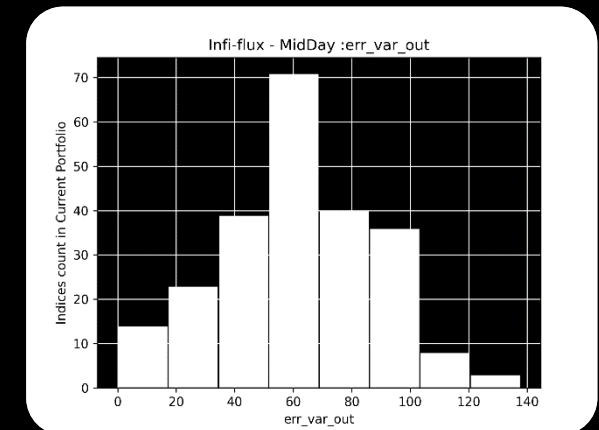
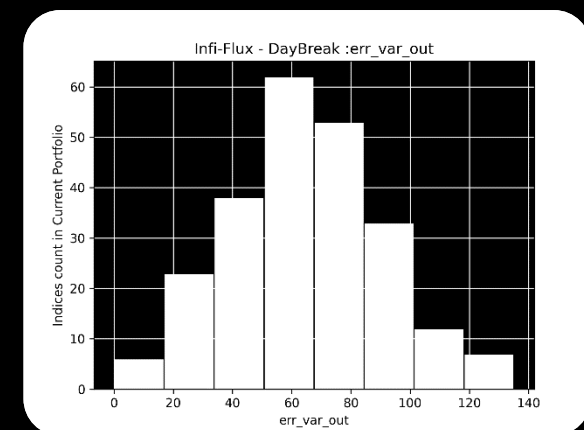
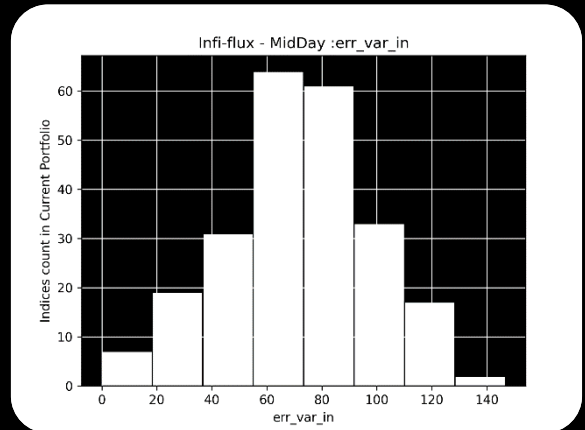
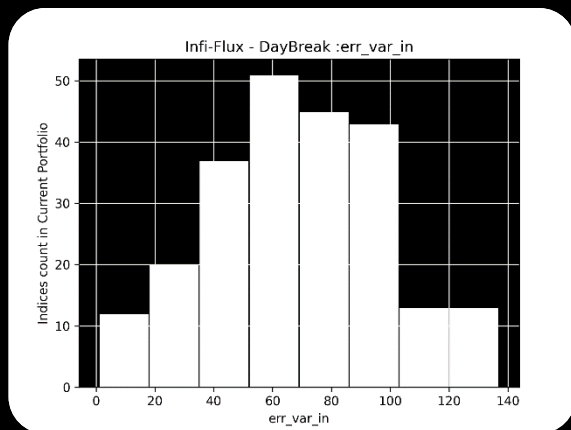
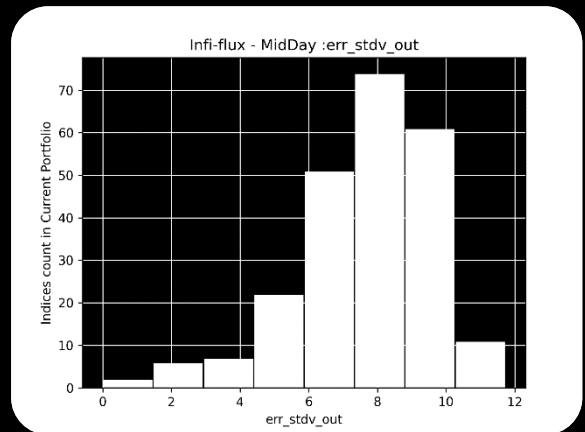
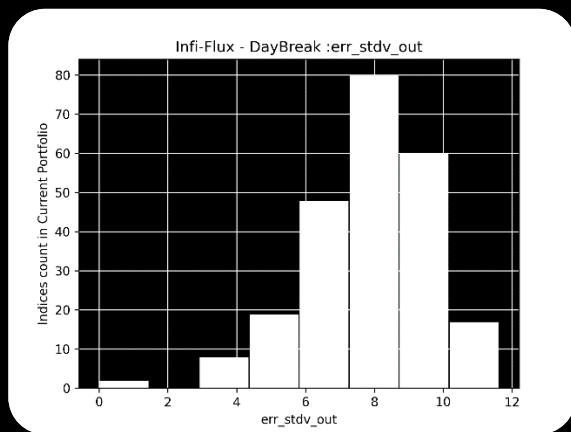
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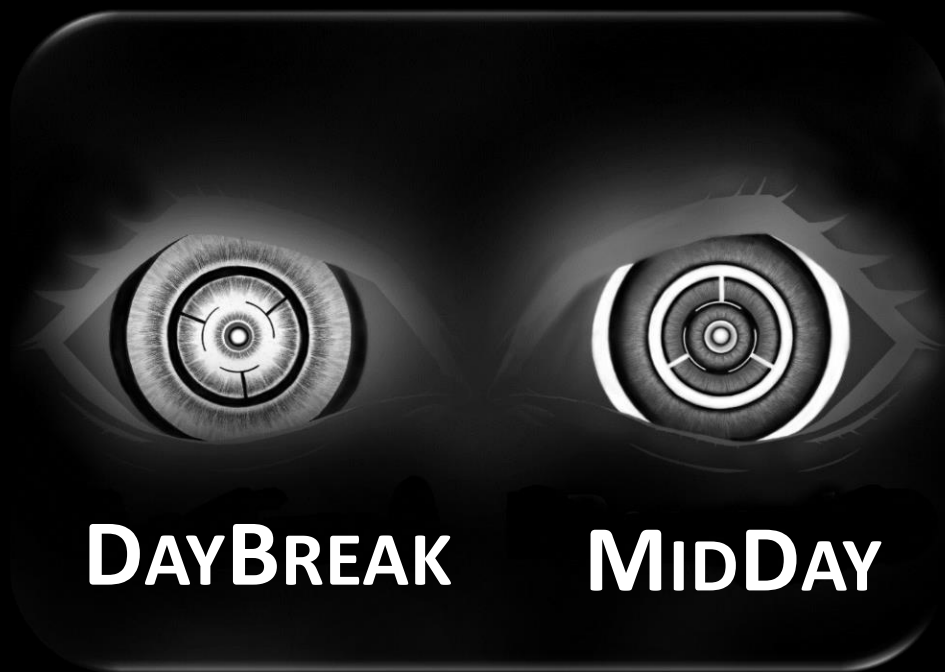


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