

"Seeing Is Believing"

**Visualizing Business Analytics
for Your Financial Data Via
Open Source Tools**

25th June 2026



Presenter



Usman Ahmad

Staff Developer Advocate



About Me

What I do?

My previous roles?

**What I do beside
work?**



Presenter



Syed Khalid Ahmad
Data Scientist



About Me

What I do?

My previous roles?

**What I do beside
work?**



One Thing In Common:

**IT'S ALL ABOUT
DATA**



Common Problems



Vendor Lock-in



Performance



Clear Visual



Permissions

Exception



Reality



What is the Solution?



Using Grafana

- 1 Available in many flavour
- 2 Various Visualisation formats
- 3 Connect to source of data



Grafana data source plugin

1

Open Source & Community Driven

2

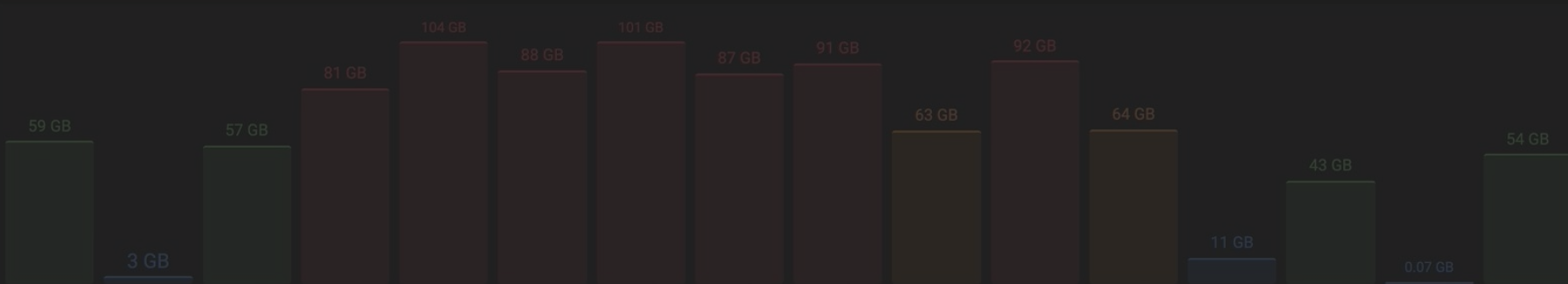
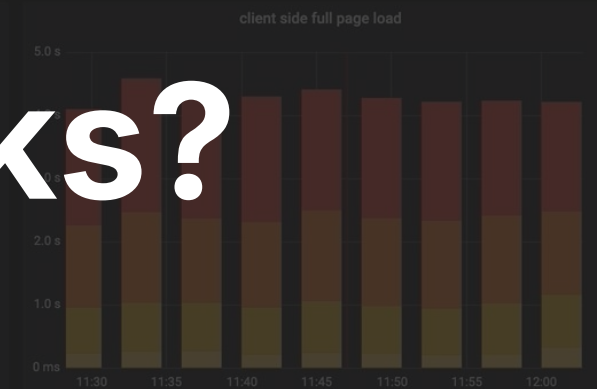
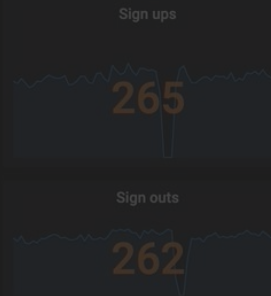
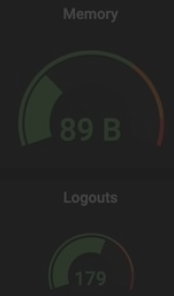
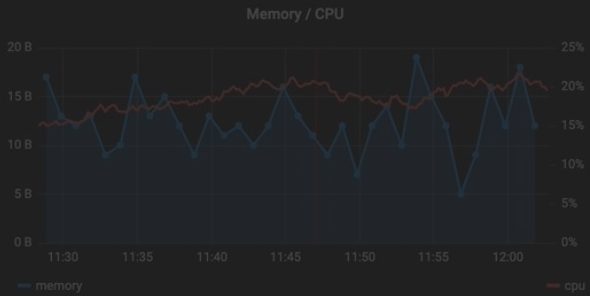
Multi-dimensional use-cases

3

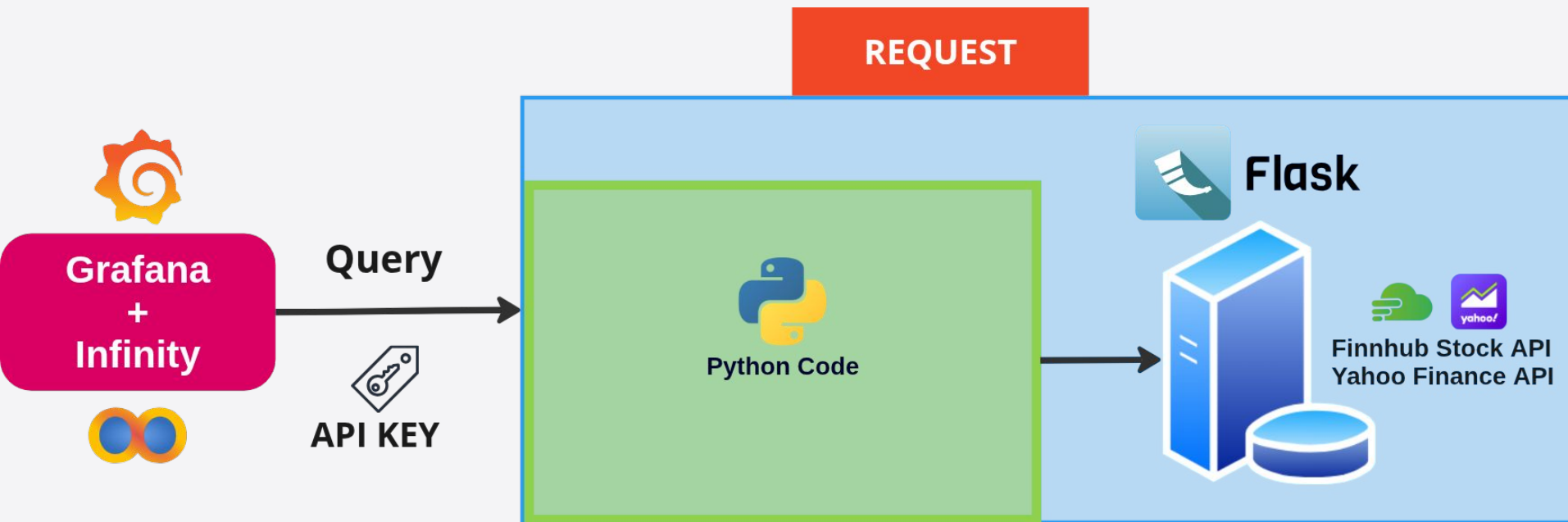
OOTB Data Integration



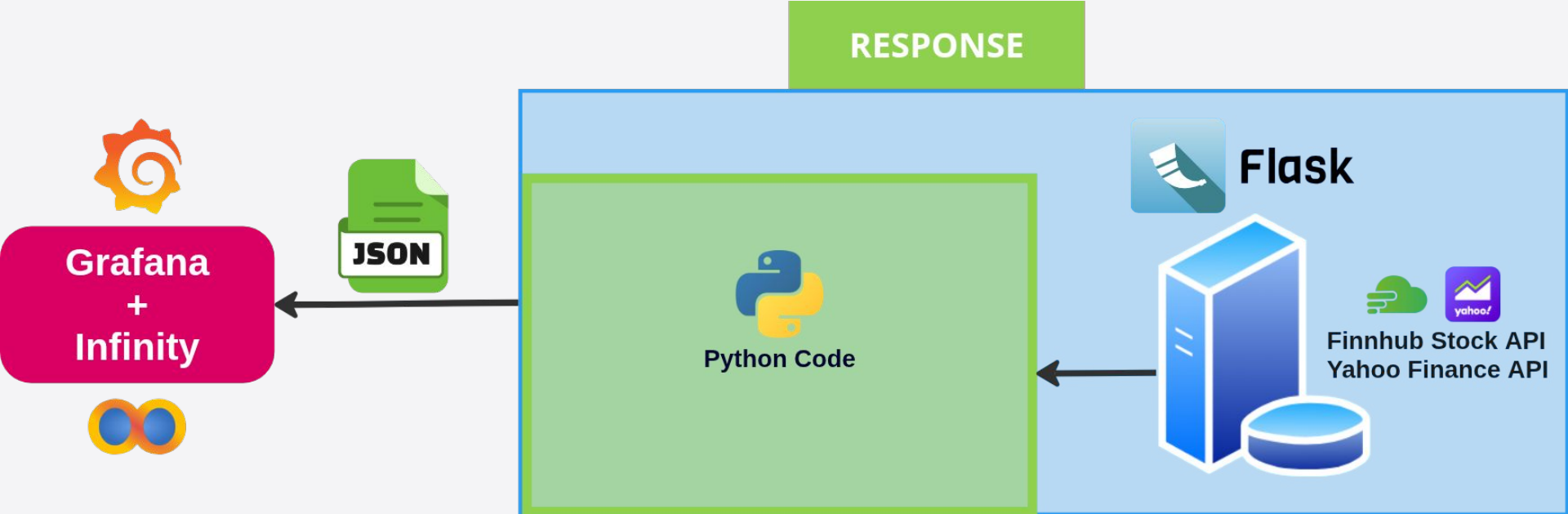
How it Works?



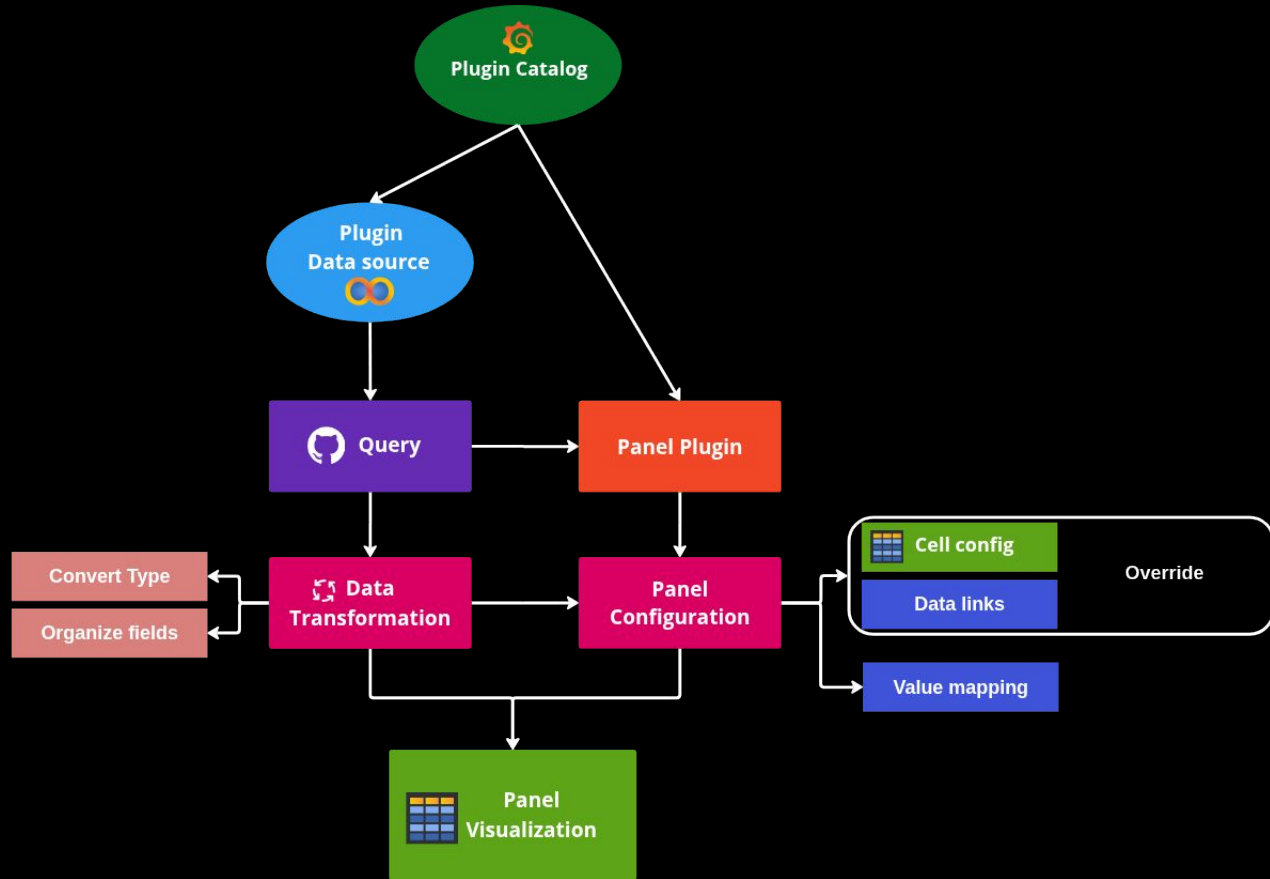
Sending Request



Receiving Response



Grafana Visualization Layer

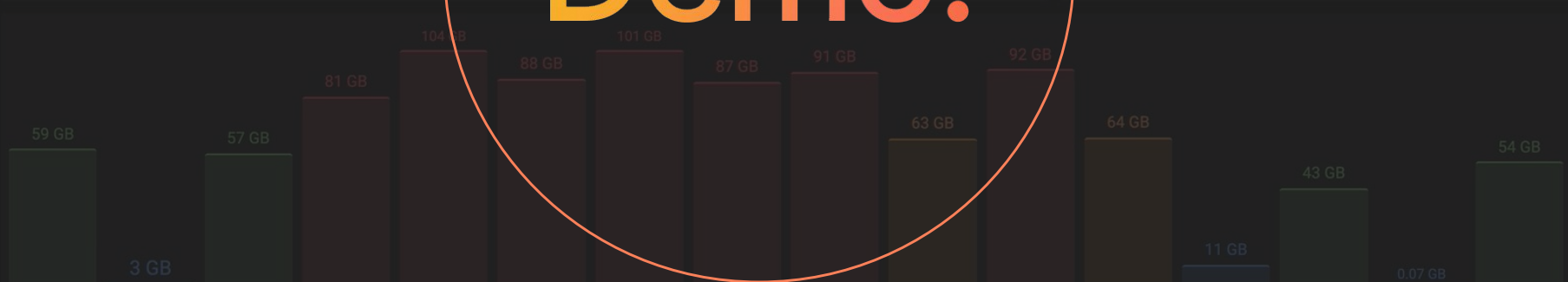
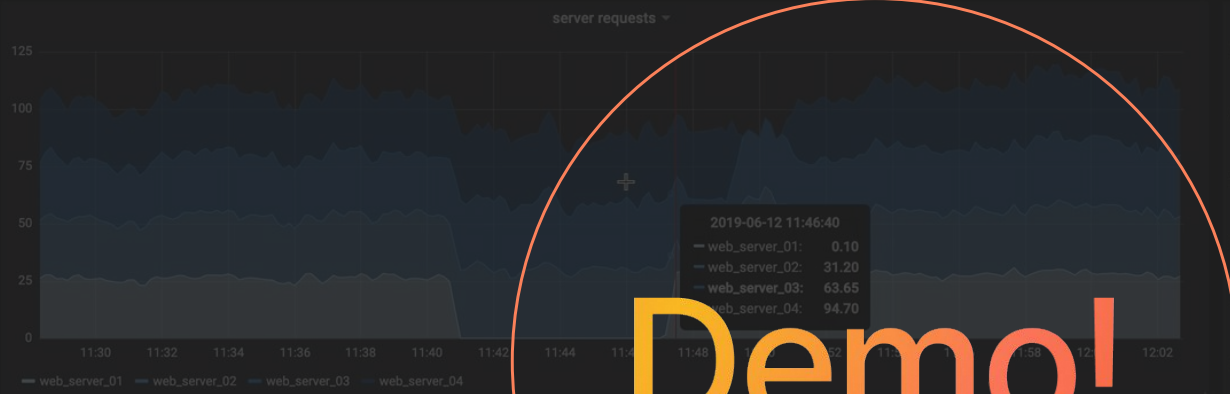


Financial News Panel

Demo!

2019-06-12 11:46:40

web_server_01:	0.10
web_server_02:	31.20
web_server_03:	63.65
web_server_04:	94.70





```
@app.route("/market_news")
def market_news():
    news = finnhub_client.general_news('technology', min_id=0)
    for item in news:
        ts = item.get('datetime')
        if ts:
            item['datetime'] = datetime.fromtimestamp(
                ts, tz=timezone.utc
            ).strftime('%Y-%m-%d %H:%M')
    return jsonify(news)
```

Latest News Around the Globe

Bloomberg

Big tech stock buybacks vanish as AI spending spree eats up cash

Big tech's stock buybacks decline as companies prioritize AI investments, shifting from capital-light to capital-intensive strategies.

2026-Jun-22 10:33:23

Bloomberg

CNBC

The budget airline model in the U.S. is running out of runway

Spirit's bankruptcy as United and Delta fly high suggests there's more to success in airline industry than low fares, and failure isn't about jet fuel spikes.

2026-Jun-22 10:33:23



Top Categories

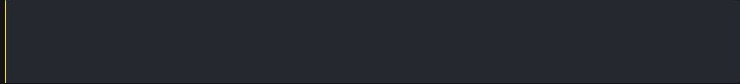
Top News Broadcasters

business

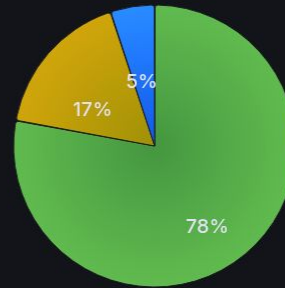


81

top news



19



- Reuters 78%
- CNBC 17%
- Bloomberg 5%

Latest News

datetime	source	category	headline
18-Jun-2026	Reuters	business	Iran's Khamenei says he approved MoU with US, despite reservations, after assurances on Iran's rights - Reuters
18-Jun-2026	CNBC	top news	Markets are set for a much more hawkish Warsh Fed than expected
18-Jun-2026	Reuters	business	US-Iran deal redraws the Middle East: Iran gains, rivals alarmed - Reuters

Stocks Panel- OHLCV

Demo!

2019-06-12 11:46:40

web_server_01:	0.10
web_server_02:	31.20
web_server_03:	63.65
web_server_04:	94.70

```
def get_historical_data(
    ticker: str,
    period: str = "1mo",
    interval: str = "1d"
) -> pd.DataFrame:
    """
    Returns historical OHLCV data as a DataFrame.

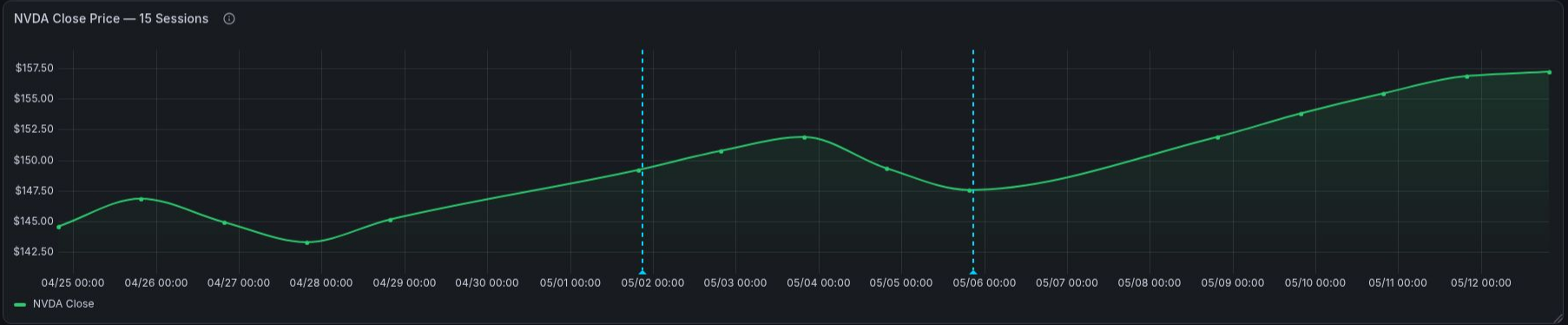
    period options : 1d, 5d, 1mo, 3mo, 6mo, 1y, 2y, 5y, 10y, ytd, max
    interval options: 1m, 2m, 5m, 15m, 30m, 60m, 90m, 1h, 1d, 5d, 1wk, 1mo, 3mo

    Example: get_historical_data("TSLA", period="3mo", interval="1d")
    """
    stock = yf.Ticker(ticker)
    df = stock.history(period=period, interval=interval)
    df.index = pd.to_datetime(df.index)
    return df
```

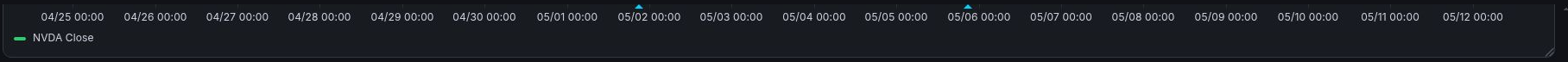
NVDA-Key-Metrics



Price History

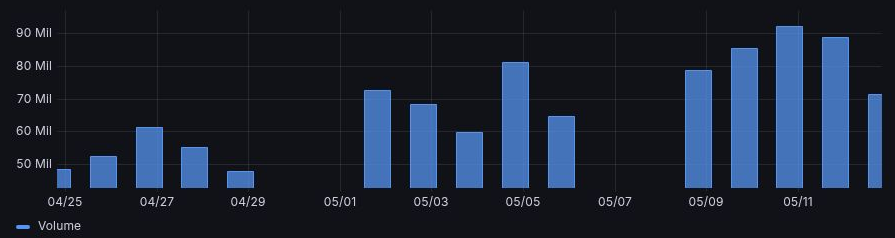


+

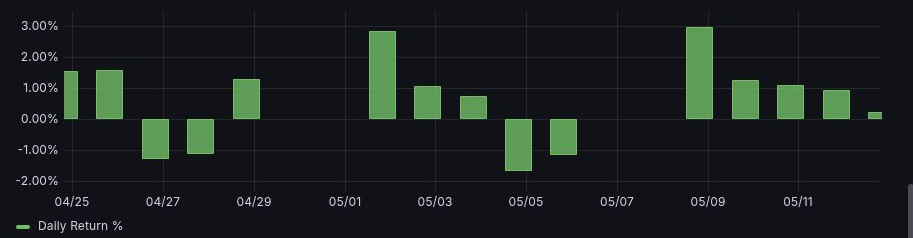


📦 Volume & Daily Returns

Daily Trading Volume 🕒



Daily Returns (%) 🕒



📄 OHLC Session Data

OHLC Daily Summary 🕒

time 📅	Change % 📈	Close 📉	High 📈	Low 📉	Open 📉	Volume 📈
2026-04-24 19:40:00	1.54%	\$144.55	\$145.80	\$141.20	\$142.35	48.5 Mil
2026-04-25 19:40:00	1.56%	\$146.80	\$147.20	\$143.90	\$144.55	52.3 Mil
2026-04-26 19:40:00	-1.29%	\$144.90	\$148.50	\$144.15	\$146.80	61.2 Mil
2026-04-27 19:40:00	-1.14%	\$143.25	\$146.30	\$142.80	\$144.90	55.1 Mil
2026-04-28 19:40:00	1.29%	\$145.10	\$145.60	\$142.10	\$143.25	47.9 Mil

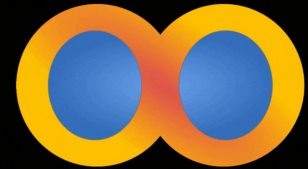
Key Takeaways

1 Centralized Visibility



2 Fully Customized Solution

3 OSS + Vendor Neutral



Upcoming Future Improvements

1 Alerting

2 AI Integration

3 Knowledge base (KB)





Thanks for
participating!

