TATAPOWER NSE Live Stock Analysis

```
#!pip install "yfinance"
#!pip install "plotly"
```

[1] ✓ 0.8s Python

```
import yfinance as yf
import pandas as pd
import numpy as np
import plotly.graph_objs as go
```

[2] ✓ 1.9s Python

```
symbol = 'TATAPOWER.NS'
ticker = yf.Ticker(symbol)
df = ticker.history(period='1d', interval='15m')
df.head()
```

[3] ✓ 0.7s Python

...

Datetime	Open	High	Low	Close	Volume	Dividends	Stock Splits
2022-12-28 09:15:00+05:30	207.300003	209.199997	206.899994	208.750000	1287668	0.0	0.0
2022-12-28 09:30:00+05:30	208.850006	209.800003	208.399994	209.300003	939532	0.0	0.0
2022-12-28 09:45:00+05:30	209.300003	210.000000	208.949997	209.899994	609069	0.0	0.0
2022-12-28 10:00:00+05:30	209.850006	210.250000	209.600006	210.100006	746016	0.0	0.0
2022-12-28 10:15:00+05:30	210.199997	210.199997	208.750000	209.300003	568172	0.0	0.0

```
df = ticker.history(period='1d', interval='1m')

#figure
fig = go.Figure()

#candlestick
fig.add_trace(go.Candlestick(x=df.index,
                open=df['Open'],
                high=df['High'],
                low=df['Low'],
                close=df['Close'], name = 'market data'))


#add title
fig.update_layout(
    title='TATAPOWER live share price evaluation',
    xaxis_title='Time',
    yaxis_title='Stock Price (in RS)',
    font=dict(
        color='white'
    ))

fig.update_layout({
    'paper_bgcolor': 'black'
})
```

```python
# X=Axes
fig.update_xaxes(
    rangeslider_visible=True,
    rangeselector=dict(
        buttons=list([
            dict(count=15, label="1m", step="minute",stepmode="backward"),
            dict(count=30, label="2m", step="minute",stepmode="backward"),
            dict(count=5, label="5m", step="minute",stepmode="backward"),
            dict(count=10, label="10m", step="minute",stepmode="backward"),
            dict(count=15, label="15m", step="minute",stepmode="backward"),
            dict(count=30, label="30m", step="minute",stepmode="backward"),
            dict(count=1, label="1h", step="hour",stepmode="backward"),
            dict(count=2, label="2h", step="hour",stepmode="backward"),
            dict(step="all")
        ]),
        font=dict(color='black')
    )
)

#Show
fig.show()
```

[4] ✓ 1.7s Python