KNOWING DATA

Python In Action | Session 2 | EDA on Financial Data

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Important Links:

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Actionable:

Business Understanding

- **NIFTY50:** https://www.niftyindices.com/indices/equity/broad-based-indices/NIFTY-Next-50/NIFTY-50

- **Indeed Levels and Volumes-** Meaning and significance.

- **Close vs Adjusted Close**

- **Returns -** Daily, Weekly and Monthly returns and how they are related.

- **Moving Averages -** How moving averages are calculated and basic idea on why they are used.

- **Max DrawDown:** What do we mean by max draw down and recovery period.

Session Plan

- **Understanding the Data Downloaded**
  - Nifty Levels
  - Nifty Constituents
  - Constituent data

- **Basic Data Visualisation**
  - First time series plot with plotly.
  - Adding formatting.
  - Finding Min and Max level and annotation on plot.

- **Data Manipulation**
  - Calculating daily level change and returns
  - Data Resampling

- **Business problems**
  - Is there any seasonality on monthly returns?
    - Using HeatMaps
    - Using Monthly Box Plots
  - Finding trends in Nifty levels (Momentum strategy)
    - Calculating rolling averages
    - Plot Buy and Sell Signals

Links used during session:

- NSE: https://www.nseindia.com/
- Pandas: https://pandas.pydata.org/docs/reference/frame.html
- Plotly: https://plotly.com/python/