

# Equities and Derivatives Radar

## Overview:

Markets summary helps traders taking the extra advantage of indices across globe, depository receipts (DR), commodities and foreign currencies movement and additionally, how FII and DII are placed across derivatives and equities segments. Further, extracting key information related to NSE200 Index and Sectoral highlights from different sources and creating One Page summary gives the traders/clients all pieces of information before the start of a trading day. Equities and Derivatives Radar information are useful to make decision for sales traders quickly rather than looking at different sources.

## Objective:

The objective of this project is to extract important information for NSE200 Index constituents and any other notable sectoral information at Start of Day for sales traders to make quicker and productive decision.

System should have following functionalities:

1. Extracting top News related to NSE200 Index and Sectoral highlights
  - Highlights/News from sources for NSE200 Index constituents and any other notable sectoral news
2. Build Index level reporting for ETF and Option FLOWS, Market Turn Over, Overnight ADR and GDR moves, Top Surfers for NSE 100 as per attached template from defined sources

## Sources:

Sources: Bhavcopy (for both cash & futures), links here

[https://www1.nseindia.com/products/content/equities/equities/homepage\\_eq.htm](https://www1.nseindia.com/products/content/equities/equities/homepage_eq.htm)

[https://www1.nseindia.com/products/content/derivatives/equities/homepage\\_fo.htm](https://www1.nseindia.com/products/content/derivatives/equities/homepage_fo.htm)

Moneycontrol, ET money, Yahoo finance and other similar finance websites

Calculation for conversion to 1 contract into USD million worth

$(\text{Number of contracts} * \text{contract lot size} * \text{last traded price}) / (\text{USDINR last price} * 1000000)$

## Evaluation Criteria

You will be evaluated on your data understanding, feature design, model testing and tuning proposal and visualization.

## Example

A sample report/summary sent out to clients is given below.

Please note, the template has commentary section first which has summarized information. After summarized information, NEWS section will address key important news/highlights for the day followed by Index level reporting details in defined format

### \*\*\*Market Commentary - Intended for Institutional Clients Only\*\*\*

A largely directionless session overnight subduing sentiments regionally as well, with SGX Nifty indicating a 10bps lower open. DXY rising to 1m highs as well as crude's rise could result in some more caution going into the weekend. Unlucky 13, as FPIs reported a sell number of \$214mn in cash y'day after 13 straight days of buying, although that is likely to be overstated on account of block deals in SONACOMS/EMBASSY. However, their selling of ~\$400mn across stock and index futures could prove to be a fly in the ointment as Nifty continues to lack momentum to surpass the 18k handle. Other notables:

\* **ONGC (+)/ RIL (~)**: In its third fortnightly revision, the Govt has cut cess on crude production to ₹13,000/t vs ₹17,750/t previously. On the flip side, Govt also raised export duties on diesel (₹7/l vs ₹5/l) and ATF (₹2/l vs nil earlier)

\* **PVRL/INOL (~)**: Non-profit group CUTS has approached the CCI to investigate the merger between the two companies alleging that the deal will have anti-competitive effects. PVR chairman Ajay Bijli had earlier said the deal would not come under CCI scrutiny on account of cos (Covid affected) revenues being below the threshold (ET)

\* **Flows**: T/o \$8.7bn with FPIs -\$214mn in cash, -\$180mn in stock futures (unwind + shorts 4:1) and -\$207mn in index futures (unwind + shorts 1:1). DIIs +\$59mn in cash, +\$80mn in stock futures (cover) and -\$38mn in index futures (shorts). Non-institutional +\$104mn in stock futures (longs) and +\$146mn in index futures (longs + cover 1:1)

\* **Derivatives summary**: Index futures - Longs added worth \$35mn in Nifty and \$169mn in Bank Nifty.

Stock futures - Longs in ICICIBC, ACEM, CBK, ADE; Shorts in INFO, WPRO, HCLT, HMCL; Unwinding in HDFCLIFE, VEDL, GRASIM; Covering in SBIN, KMB, TECHM, JUBI.

## NEWS

\* **WPRO (~)**: Awarded multi-year contract to deliver integration and management services to HM Treasury (BBG)

\* **ATGL (~)**: Reduced prices of CNG and PNG by ₹4.7/kg and ₹3.2/SMC respectively (BBG)

\* **METROHL (~)**: CEO Vijender Singh has resigned with Nov 30th to be last working day (BBG)

Sources: Bloomberg, Cogencis and leading Indian newspapers & others as mentioned

MARKET TURNOVER (USD Billion)				
Product	Volume	30D Avg	Basis in Pts (Chg) vs Fair	OI Change
Cash Equity	8.7	7.1		
Stock Futures	9.2	9.0		
Nifty Index	2.7	2.8	24(-6) vs 19	2.57%
BankNifty Index	1.8	1.9	57(6) vs 41	-3.70%
INSTITUTIONAL FLOWS (USD Million)				
Category		Aug 18	Aug 17	Aug 16
FPI Cash		-214	+535	-
FPI Stock Futures		-180	-130	+165
DII Cash		+59	-64	-17
DII Stock Futures		+80	+167	+51
FPI Index Futures		-207	+1	+28
DII Index Futures		-38	+0	-21
OI PCR		1.3	1.3	0.8
EST. INDIA ETF FLOWS (USD Million)*				
		1D	5D	10D
		+0	+10	+31
OPTION FLOWS (USD Million)*				
Category		Aug 18	Aug 17	1D chg
FPI Call Options		462	579	(117)
FPI Put Options		450	463	(13)
DII Call Options		3	3	-
DII Put Options		432	456	(24)

\*Exchange reporting in number of contracts, \$mn number is estimated

#### OPTIONS SNAPSHOT

Category		Aug 18	Max OI Movement (Strike, chg)
Max Call Open Interest		18,000	19000, 78k cts
Max Put Open Interest		17,900	17000, 74k cts

#### OVERNIGHT ADR & GDR MOVES

Some of the Parameters affecting ADR and GDR moves are: % change, Volume, 30 days avg volume across gainers and laggards. E.g. Wipro Ltd ADR saw -1.3% changes in price with 1,524,450 volume on previous trading day and 30 day average daily volume as 2,9994,540

\*ETF flows estimated by a subset of onshore and offshore ETF instruments with notable India weights including, but not limiting to, VWO US Equity, EEM US Equity, 2836 HK Equity, EPI US Equity, INR FP Equity, INDIA SP Equity, INDA US Equity, INDY US Equity, PIN US Equity, INP US Index, 3091 HK Equity, ICICIB22 IN Equity and CPSEBE IN Equity Data sourced from Bloomberg API

Source	Bloomberg & NSE for all data tables/data, Exchange data, CNBC and other print media channels
Author(s):	XXX
Date	XXX