



Daily Derivatives Report

Nifty Futures

	Value	Change
Most recent settlement	24,293	0.7%▲
Open Interest (OI)	1,65,96,775	1.9%▲
Change in OI (abs)	1,65,96,775	3,03,290▲
Premium / Discount (Abs)	61	22▲
Inference	Long Build Up	

Bank Nifty Futures

	Value	Change
Most recent settlement	57,639	0.50%▲
Open interest (OI)	23,78,100	1.0%▼
Change in OI (abs)	23,78,100	23,520▼
Premium / Discount (Abs)	143	33▲
Inference	Short Covering	

Volatility Insights

	Value	Change
India VIX Index	10.76	0.56▼
Nifty ATM IV (%)	8.92	0.58▼
Bank Nifty ATM IV (%)	10.72	0.94▼
PCR (Nifty)	1.12	0.31▲
PCR (Bank Nifty)	0.93	0.11▲

The FII Long Ratio in Index Futures **drop** to **9.3 %**, **down** from **9.6%** in the previous session.

Single Stock Futures Movers

Long Buildup (Open Interest Higher + Price Higher)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
PNBHOUSING	93,66,500	10.5%	1180.7	0.3%
SAIL	22,63,05,000	7.9%	174.55	1.7%
JINDALSTEL	1,59,83,750	6.3%	1119.7	0.6%
AMBER	16,87,500	5.7%	7285.5	0.2%
PAYTM	2,08,52,450	5.1%	1610.6	1.3%

Short Buildup (Open Interest Higher + Price Lower)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
GODFRYPHLP	23,63,900	18.8%	2100.1	-0.9%
CAMS	1,00,20,450	9.0%	751.45	-0.5%
RECLTD	5,08,52,025	6.6%	328.45	-2.5%
KEI	19,96,400	6.4%	5693.3	-0.2%
PFC	9,08,57,000	5.4%	364.85	-2.3%

Short Covering (Open Interest Lower + Price Higher)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
WAAREEENER	74,22,275	-21.3%	2681.5	0.6%
LODHA	1,19,19,375	-19.9%	1241.3	2.5%
IREDA	11,10,61,600	-16.6%	114.57	1.1%
SWIGGY	8,27,78,350	-16.2%	280.35	2.7%
MAZDOCK	55,41,075	-15.2%	2573.1	0.9%

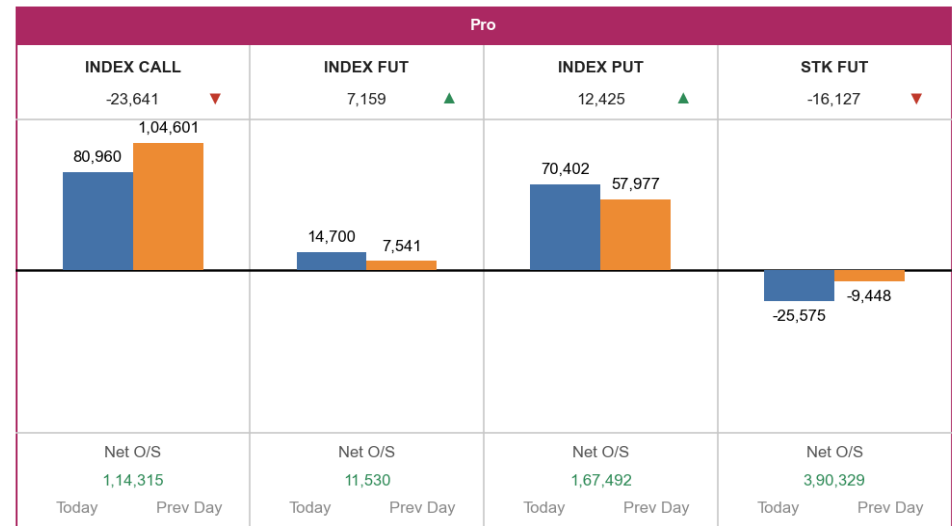
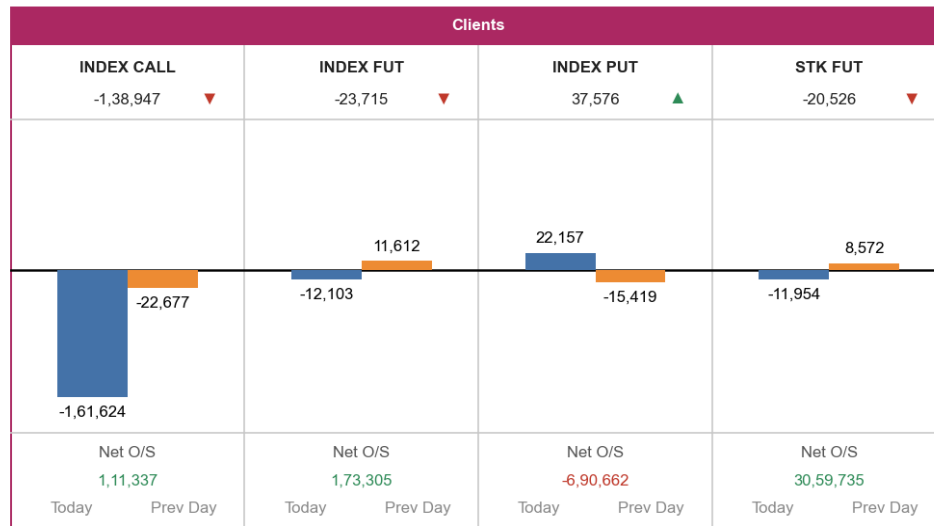
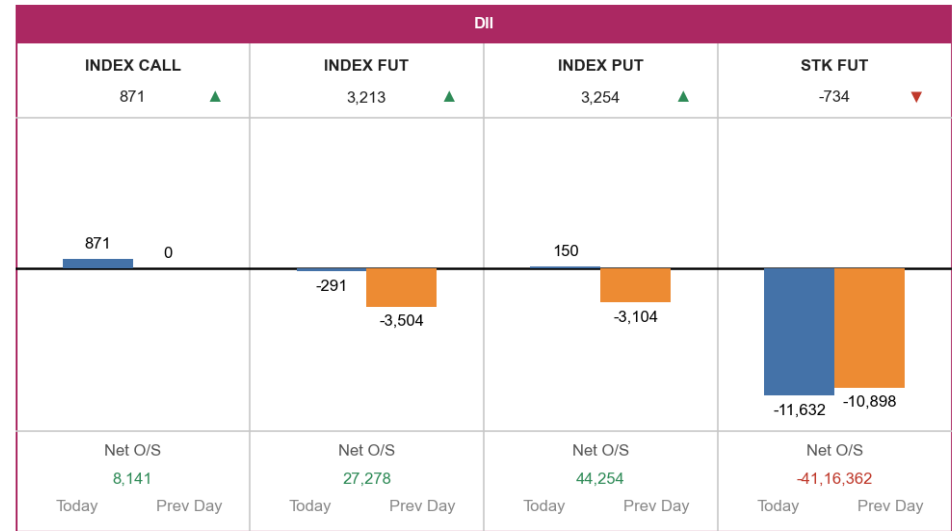
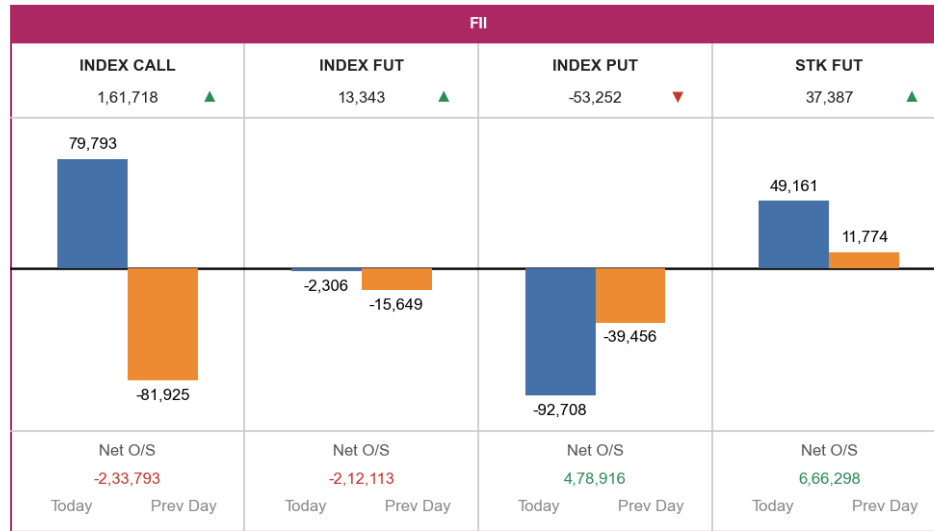
Long Unwinding (Open Interest Lower + Price Lower)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
DMART	50,47,350	-12.6%	3971.7	-0.3%
ASTRAL	71,15,775	-12.4%	1537	-0.2%
PIIND	46,68,825	-11.5%	2489.8	-0.5%
SONACOMS	1,62,52,075	-10.5%	825.95	-0.1%
NESTLEIND	1,00,04,000	-4.2%	1464.9	-0.2%

For an explanation of all the contents in this report, kindly click on the hyperlink at the top right which will take you to the end-of-report appendix

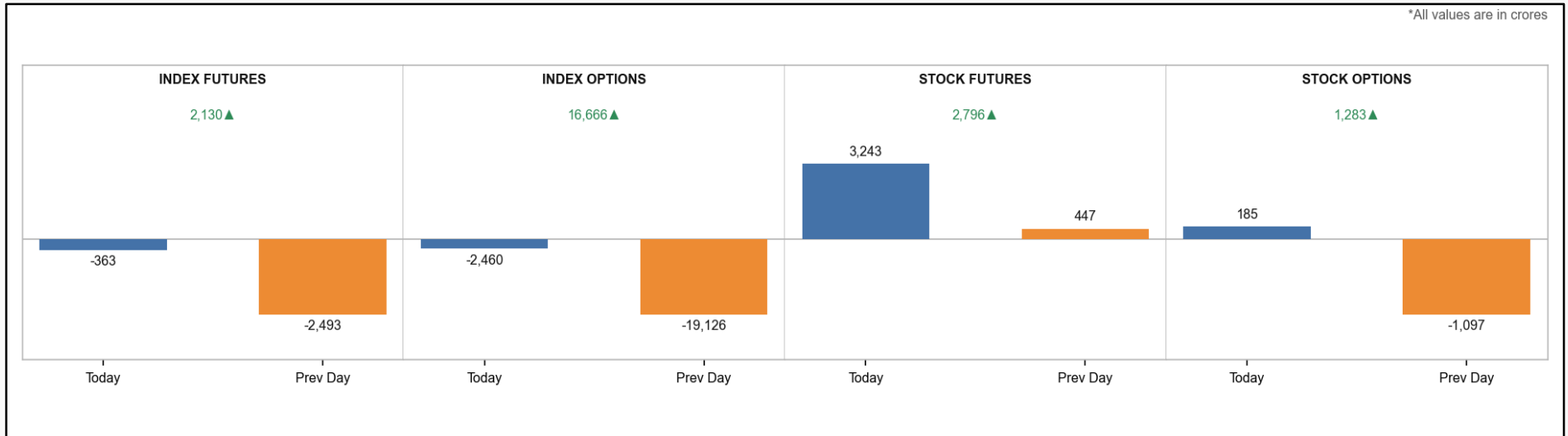
Data Source : NSEBHAVCOPY

Open Interest Trends by Participant

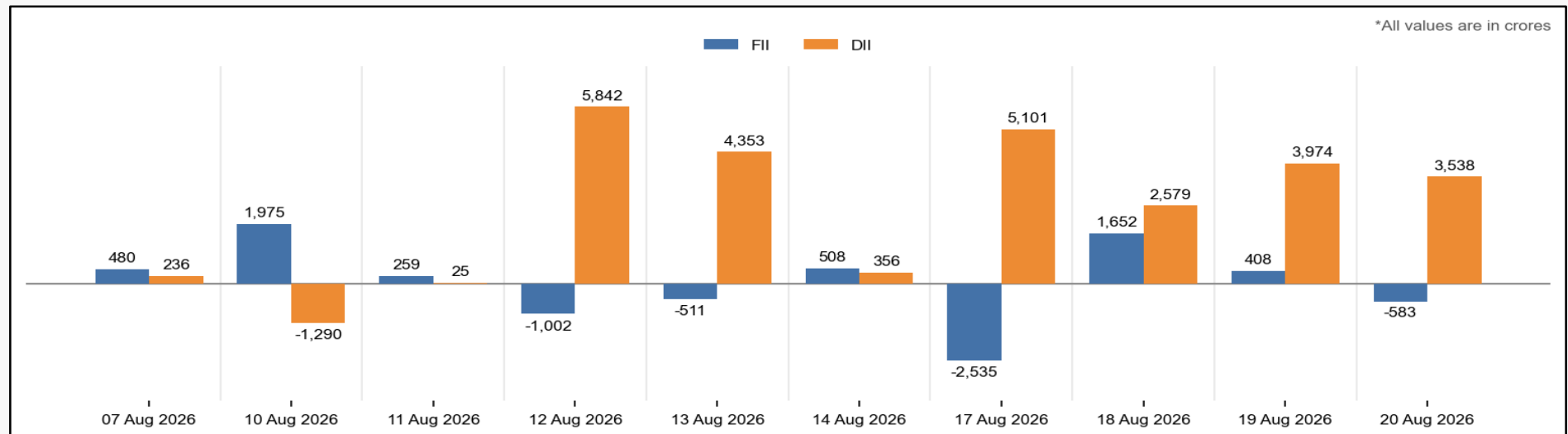
▲ and ▼ indicate positive and negative changes, respectively



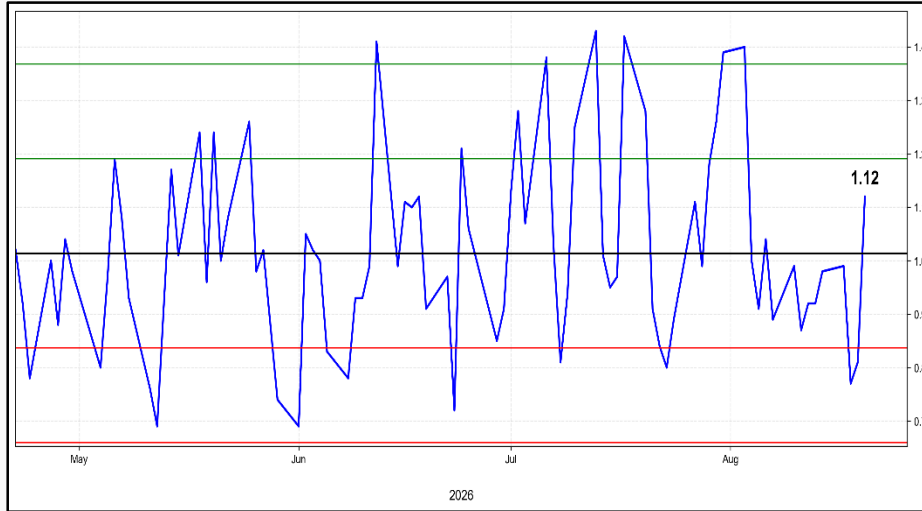
Daily Net Open Interest Change



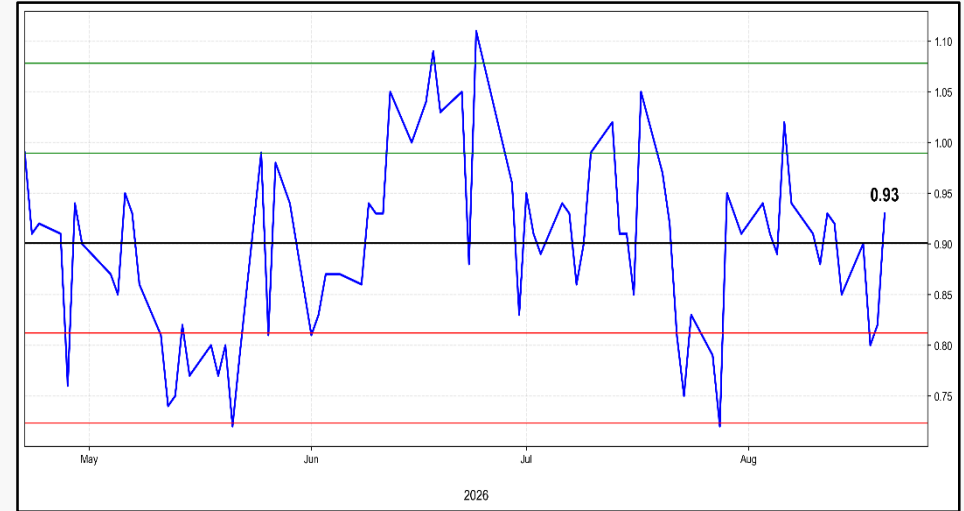
DII and FII Daily Cash Market Flows



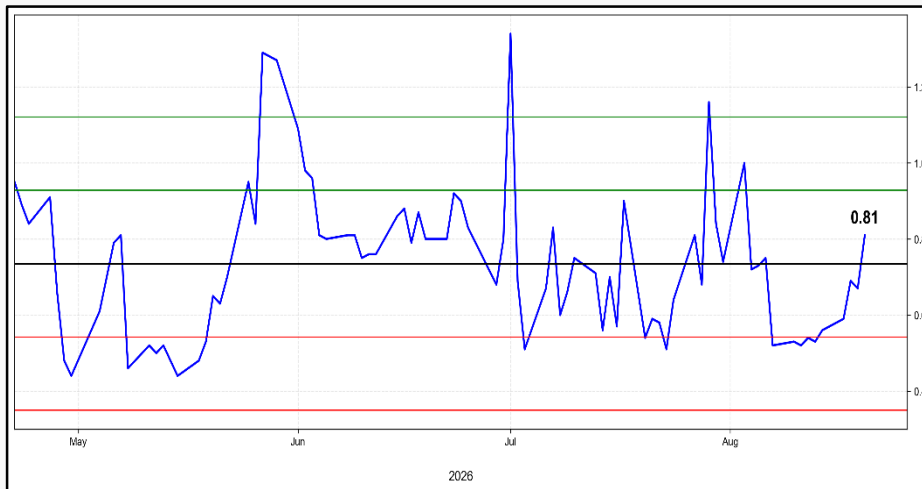
Nifty



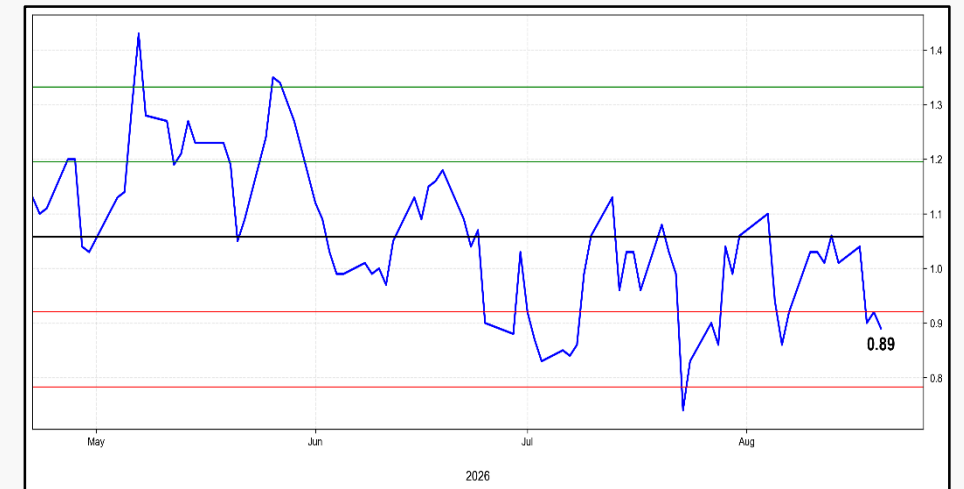
Bank Nifty



Fin Nifty



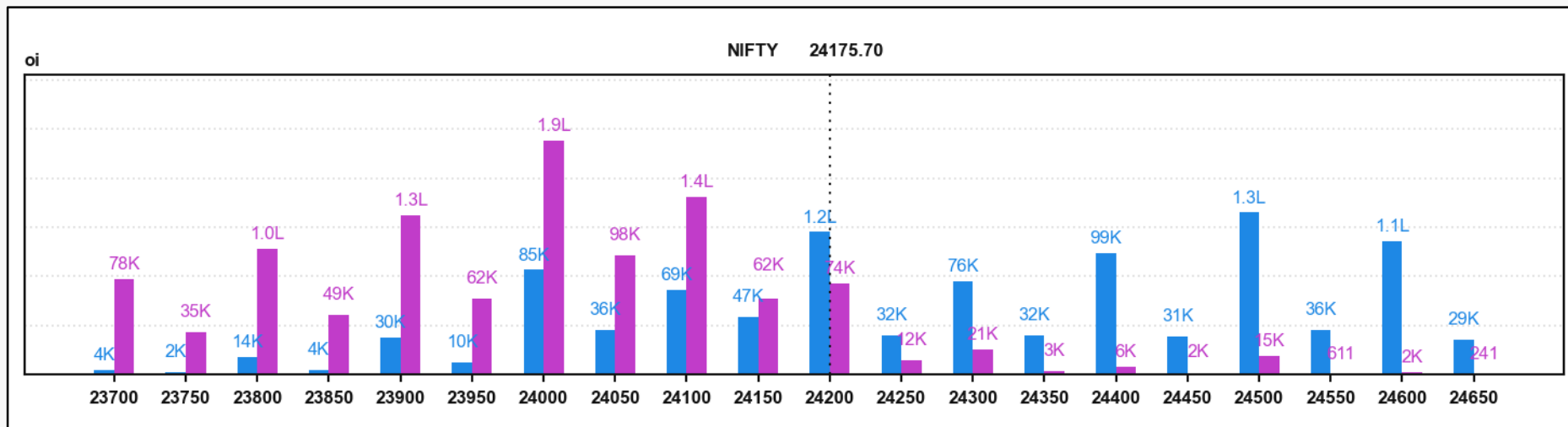
Midcap Select Nifty



On the day immediately post expiration, PCR values will differ due to the way open interest data for the expired series is treated for the PCR calculation

Positioning Stack by Strike (Nifty Current Week Expiry & BankNifty Monthly Expiry)

Call  Put 



For Nifty, the 24,200 Call and 24,000 Put had the highest call and put concentration (contracts). For the Bank Nifty, the 58,000 Call and the 58,000 Put saw the most amount of open interest.

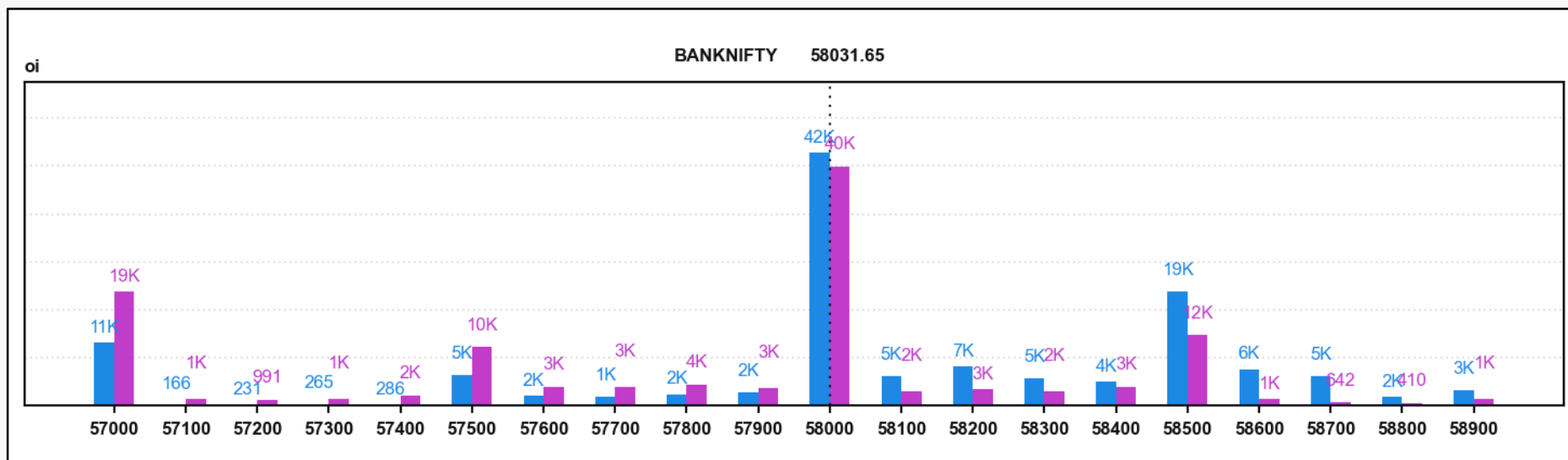


Chart quotes show front-month Nifty and Bank Nifty futures levels along with absolute and percentage change from prior trading session

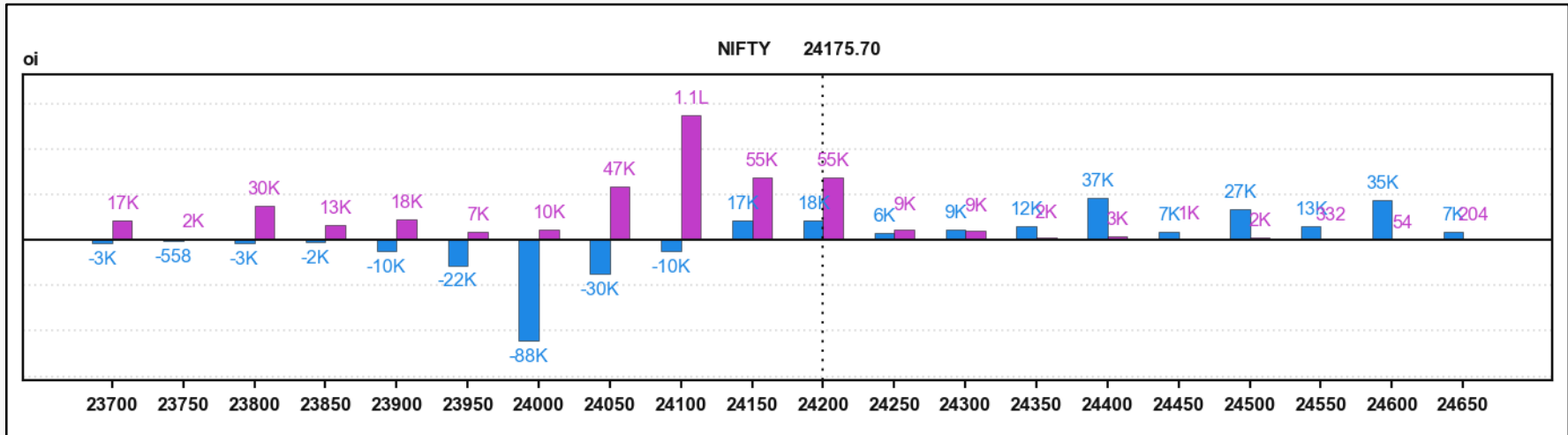
Data Source : NSE, MYFNO

Open Interest Change (Nifty Current Week Expiry & BankNifty Monthly Expiry)

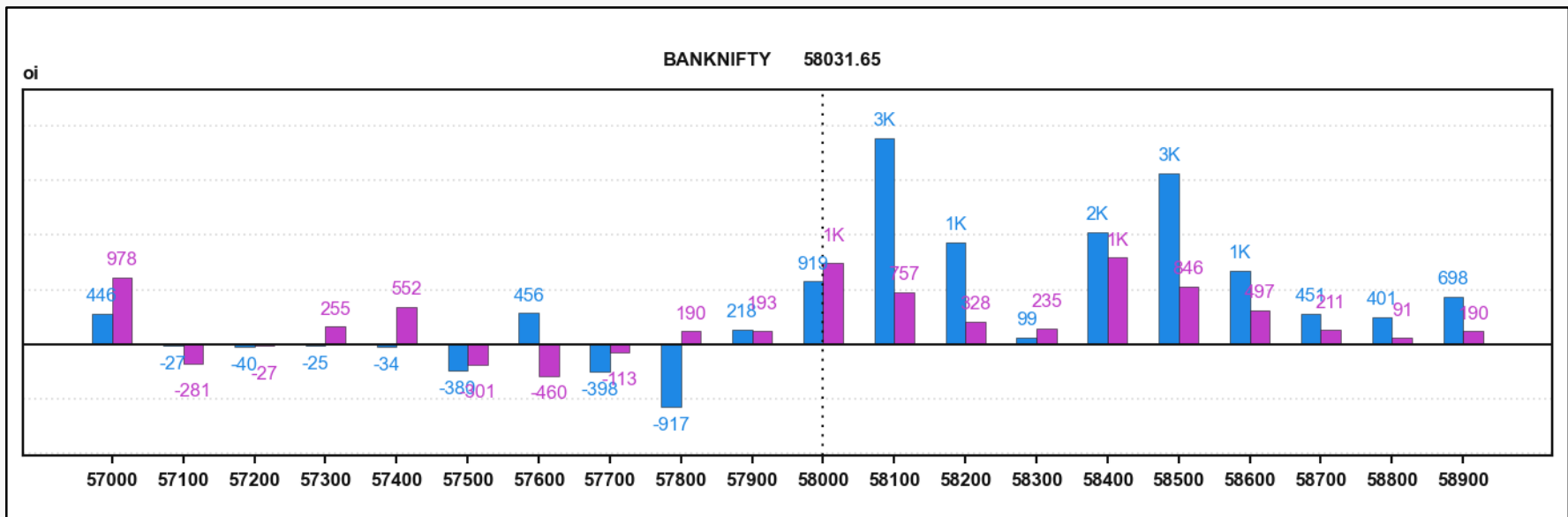
Call



Put



The largest open interest changes (contracts) were seen at the 24,000 Call and the 24,200 Put



For the Bank Nifty, the biggest open interest changes were seen at the 58,100 Call & the 58,000 Put

Stocks With High Call Volume To Put Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
MANKIND	2,385.0	-0.4	8,583.0	1,529.0	5.6
NBCC	88.3	1.2	4,858.0	1,089.0	4.5
PREMIERENE	1,039.6	3.7	21,515.0	4,947.0	4.3
SUZLON	47.0	0.5	12,583.0	3,348.0	3.8
KFINTECH	961.0	1.4	37,034.0	10,186.0	3.6

Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
EICHERMOT	8,042.1	0.6	33,673.0	90,915.0	2.7
BAJAJHLDNG	11,368.0	-0.1	3,414.0	4,578.0	1.3
LAURUSLABS	1,825.0	1.3	12,650.0	11,821.0	0.9
BRITANNIA	5,548.0	1.8	12,651.0	10,108.0	0.8
BAJAJ-AUTO	11,789.8	1.2	29,119.0	23,187.0	0.8

Call Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
CAMS	749.3	-0.7	9,955.0	9,529.0	100.0
BSE	3,291.1	-1.8	90,139.0	88,371.0	100.0
KFINTECH	961.0	1.4	10,565.0	10,544.0	100.0
PFC	363.8	-2.8	32,205.0	31,393.0	100.0
BOSCHLTD	48,723.0	0.5	22,673.0	23,069.0	98.3

Put Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Put OI	Highest Put OI	Relative to Highest Put OI
BDL	1,316.6	-2.4	12,475.0	12,196.0	100.0
MCX	3,125.8	5.1	31,917.0	27,722.0	100.0
BLUESTARCO	1,510.4	1.1	5,081.0	5,088.0	99.9
PFC	363.8	-2.8	19,471.0	19,564.0	99.5
BSE	3,291.1	-1.8	42,070.0	42,663.0	98.6

Call Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
JINDALSTEL	1,118.9	0.3	28,286.0	24,663.0	100.0
MCX	3,125.8	5.1	2,57,587.0	1,64,557.0	100.0
SBICARD	647.0	3.7	71,568.0	52,102.0	100.0
BSE	3,291.1	-1.8	2,41,931.0	2,47,237.0	97.9
MUTHOOTFIN	2,970.4	3.9	1,71,883.0	1,87,435.0	91.7

Put Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Put Vol	Highest PV	Relative to Highest PV
SBICARD	647.0	3.7	34,849.0	28,876.0	100.0
BSE	3,291.1	-1.8	1,58,619.0	1,26,115.0	100.0
MCX	3,125.8	5.1	1,18,182.0	73,590.0	100.0
JSWSTEEL	1,299.4	1.1	16,227.0	20,162.0	80.5
DIXON	14,850.0	2.7	1,28,212.0	1,70,636.0	75.1

Call Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
PAGEIND	35,508.8	0.8	19,656.0	6,900.0	2.8
VOLTAS	1,219.5	-0.3	27,248.0	10,409.8	2.6
BOSCHLTD	48,723.0	0.5	22,673.0	9,721.0	2.3
SOLARINDS	19,759.5	0.2	19,179.0	8,578.2	2.2
BDL	1,316.6	-2.4	23,776.0	11,036.6	2.2

Put Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
TIINDIA	2,930.0	-1.0	6,194.0	2,225.0	2.8
GODREJCP	946.8	1.8	14,958.0	6,790.7	2.2
SOLARINDS	19,759.5	0.2	14,220.0	6,722.1	2.1
PAGEIND	35,508.8	0.8	6,640.0	3,278.4	2.0
BOSCHLTD	48,723.0	0.5	21,808.0	10,806.8	2.0

Call Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
SBICARD	647.0	3.7	71,568.0	10,384.6	6.9
MUTHOOTFIN	2,970.4	3.9	1,71,883.0	26,238.2	6.6
JSWSTEEL	1,299.4	1.1	38,470.0	8,880.8	4.3
360ONE	1,203.0	1.9	23,990.0	5,801.8	4.1
MCX	3,125.8	5.1	2,57,587.0	65,389.8	3.9

Put Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
SBICARD	647.0	3.7	34,849.0	5,592.0	6.2
EICHERMOT	8,042.1	0.6	90,915.0	17,283.2	5.3
MUTHOOTFIN	2,970.4	3.9	55,413.0	12,932.7	4.3
LICHSGFIN	508.0	2.2	16,665.0	4,140.0	4.0
MCX	3,125.8	5.1	1,18,182.0	32,229.6	3.7

Nifty 50 Constituents Open Interest (OI) Dashboard – Support / Resistance

Distance of Strike With Highest Open Interest From Current Market Price (%)

Stock Name	CE STRIKE	CE OI	%Away	CMP	PE Strike	PE OI	%Away	Stock Name	CE STRIKE	CE OI	%Away	CMP	PE Strike	PE OI	%Away
ADANIENT	3100	782697	3.7%	2990	3000	459483	0.3%	JIOFIN	260	21530700	6.9%	243	250	6415500	2.8%
ADANIPTS	1700	1889075	1.1%	1682	1700	1022200	1.1%	JSWSTEEL	1300	1050975	1.1%	1286	1260	598725	-2.0%
APOLLOHOSP	9000	404250	2.9%	8750	8500	171625	-2.9%	KOTAKBANK	400	6476000	2.5%	390	370	3968000	-5.2%
ASIANPAINT	2800	922250	6.4%	2631	2560	332500	-2.7%	LT	4100	1109325	1.5%	4041	4000	383075	-1.0%
AXISBANK	1260	4118125	2.0%	1235	1240	2456250	0.4%	M&M	3500	1330400	2.5%	3415	3200	587400	-6.3%
BAJAJ-AUTO	12600	118800	8.2%	11645	11000	161625	-5.5%	MARUTI	14000	292750	2.3%	13690	13000	112800	-5.0%
BAJAJFINSV	2060	1930800	2.4%	2012	1800	634200	-10.5%	MAXHEALTH	1100	591150	10.3%	997	1000	287700	0.3%
BAJFINANCE	1100	2819250	1.8%	1080	1100	1773000	1.8%	NESTLEIND	1600	1212000	9.2%	1465	1440	459500	-1.7%
BEL	420	6384000	2.6%	409	400	3790500	-2.2%	NTPC	350	8944500	4.0%	337	330	4603500	-1.9%
BHARTIARTL	2000	4315375	4.1%	1922	1940	1129550	0.9%	ONGC	250	11695500	5.0%	238	230	4056750	-3.4%
CIPLA	1500	1019575	5.5%	1422	1350	410550	-5.1%	POWERGRID	290	3912100	10.1%	264	260	2827200	-1.3%
COALINDIA	410	4280850	2.5%	400	380	2447550	-5.0%	RELIANCE	1320	7872500	0.7%	1311	1300	3810500	-0.8%
DRREDDY	1200	1299375	2.6%	1170	1150	1336250	-1.7%	SBILIFE	1840	416625	3.3%	1780	1700	256125	-4.5%
EICHERMOT	8100	246200	1.4%	7991	7500	178100	-6.1%	SBIN	1100	11004000	4.9%	1049	1050	3050250	0.1%
ETERNAL	330	11732150	3.1%	320	320	6317125	0.0%	SHRIRAMFIN	1140	2165625	3.1%	1106	1100	951225	-0.5%
GRASIM	3400	768000	4.0%	3270	3300	266250	0.9%	SUNPHARMA	2000	1202600	5.3%	1900	1860	560350	-2.1%
HCLTECH	1380	871200	4.2%	1325	1100	465200	-17.0%	TATACONSUM	1100	723800	3.0%	1068	1000	529100	-6.4%
HDFCBANK	750	20476950	4.2%	720	720	9272250	0.0%	TMPV	350	8150400	8.9%	321	330	3049600	2.7%
HDFCLIFE	600	3150400	11.9%	536	500	2440900	-6.8%	TATASTEEL	190	19849500	3.3%	184	180	5123250	-2.2%
HINDALCO	1060	2450700	2.0%	1039	960	1451100	-7.6%	TCS	2500	1809675	9.2%	2289	2440	702675	6.6%
HINDUNILVR	2100	1686000	3.9%	2021	2100	811800	3.9%	TECHM	1600	1213800	0.6%	1590	1600	312000	0.6%
ICICIBANK	1440	4357500	2.7%	1402	1400	2174900	-0.1%	TITAN	5100	606550	0.6%	5068	5000	470925	-1.3%
INDIGO	5400	625950	4.0%	5193	5100	255900	-1.8%	TRENT	3100	1050525	5.0%	2953	3000	373275	1.6%
INFY	1200	5911600	7.2%	1120	1100	2522400	-1.8%	ULTRACEMCO	12000	128200	4.8%	11450	10760	53650	-6.0%
ITC	290	17253450	8.6%	267	290	6204825	8.6%	WIPRO	190	11718000	5.8%	180	180	4620000	0.3%

If distance to call strike from current market price < distance to put strike from current market price, then the %Away for the call strike will be colored green

If distance to put strike from current market price < distance to call strike from current market price, then the %Away for the put strike will be colored red

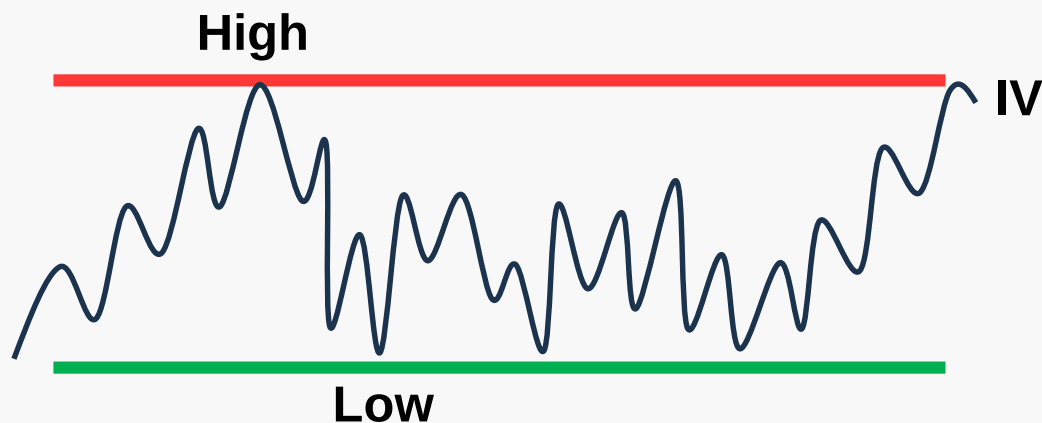
If distance to call strike from current market price = distance to put strike from current market price, then the %Away columns will be uncolored

- Open interest **goes up** when **both** the buyer and the seller are **opening a new position**
- Open interest remains the **same** when one party is **opening a new position** and the other is **liquidating an existing position**
- Open interest **falls** when both the buyer and the seller are **liquidating existing positions**
- **Long build up:** Prices increase with a rise in open interest and is considered **bullish**
- **Long liquidation:** Existing longs liquidate their positions and open interest also falls; **moderately bearish**
- **Short build up:** Prices drop with a rise in open interest, and this is considered **bearish**
- **Short covering:** Existing shorts cover their positions, and open interest drop; this is **moderately bullish**
- PCR goes up when 1) both put and call open interest go up, but puts rise faster, or 2) both put and call open interest go down, but calls fall faster or, 3) when puts go up and calls go down
- Generally, a **rising PCR is bearish**, but when it reaches an extremely **high** reading, it means people are likely to take contrarian bets, i.e., they are likely to turn **bullish**
- PCR goes down when 1) both put and call open interest go up, but calls rise faster, or 2) both put and call open interest go down, but puts fall faster or, 3) when puts go down and calls go up
- Typically, a **falling PCR is bullish**, but when it reaches an extremely **low** reading, it means people are likely to take contrarian bets, i.e., they are likely to turn **bearish**

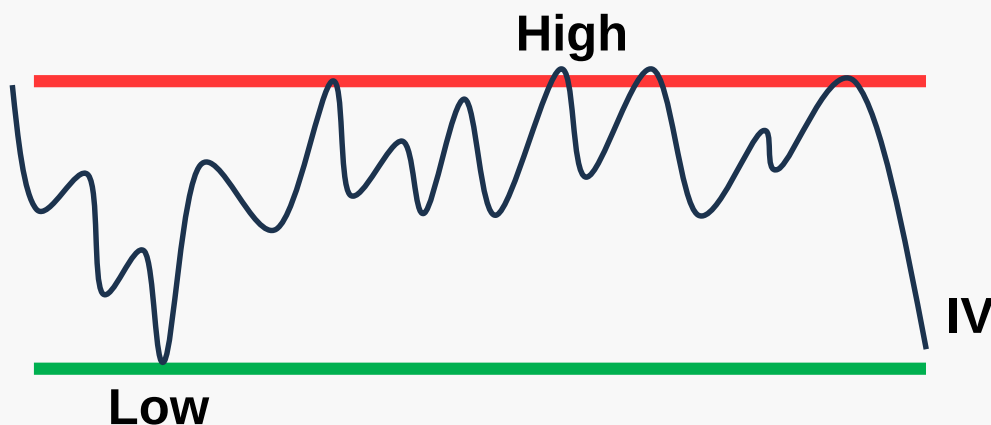
**ATM IV is the midpoint of the IV for the ATM call and put respectively*

- **Volume:** Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- **Open Interest:** The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the open interest for the day is 20 contracts
- **Total open interest:** Total of all open positions for all available expirations. It is the sum of all outstanding long positions OR short positions. This is because the total number of long positions must equal the total number of short positions
- **Premium:** When the front-month futures are more expensive than the cash market price. For instance, if Nifty futures (first month contract) are at 25,500 when the cash Nifty is at 25,450, the premium is 50 points
- **Discount:** When the front-month futures are cheaper than the cash market price. For instance, if Tata Steel futures (first month contract) are at 160 when the stock is trading at 162 in the cash market, the discount is 2 points
- **At-the-Money (ATM):** When the strike price of an option is the same as the spot price, the option is called an ATM option
- **Implied Volatility (IV):** Measure of how much a stock is expected to move in the future (in either direction)
- **Put-Call Ratio (PCR):** Ratio of total number of outstanding puts to total number of calls outstanding. If this ratio is more (less) than one, it means more puts (calls) are open relative to calls (puts)
- **Derivatives market participants:** Foreign Institutional Investors (FIIs), Domestic Institutional Investors (DIIs), proprietary traders and Retail investors
- **Derivatives Instruments:** Index options, index futures, stock options, stock futures
- **Expirations covered:** Index options (weekly, monthly), stock options, stock futures and index futures (monthly)
- For pages 7 to 11, “Last px” refers to the closing price of the cash market ticker
- **Source(s):** www.nseindia.com, Bloomberg, MyFnO

- **Strike concentration:** Visual representation of how many calls and puts are outstanding at each strike in the vicinity of the current underlying price. The strike with the highest call open interest is considered as resistance, while the put strike with the highest number of outstanding positions is considered as support
- **Shifting concentration:** Strikes with highest call and put concentration are dynamic in nature and keep changing as per movements in the markets
- **Implied Volatility Rank (IVR):** Measure of how expensive or cheap the IV of an ATM option is, relative to its 12-month history. The reading oscillates between 0 and 100

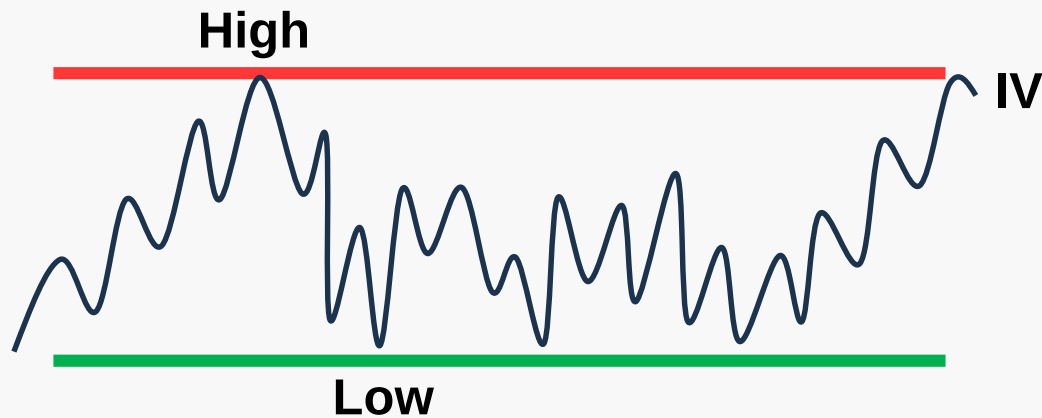


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

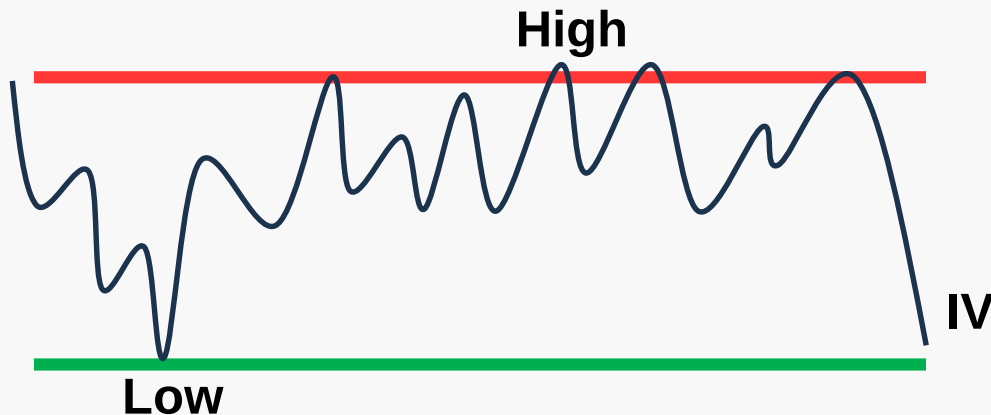


In this chart, notice that today's IV is close to the lowest low seen in the last 12 months. This means that IV for this option is cheap today compared to where it has traded over the last one year.

- **Implied Volatility Percentile (IVP)**: Measures the number of days IV has been below the current IV in the last 252 trading days. The reading moves between 0 and 100.



In the chart to the left, one can see that the bulk of the time the IV has been below its current level. In this case, the IVP will be close to 100. An IVP of 100 means that 100% of the time IV has been below its current reading in the last one year.



Notice that IV has mostly traded at the high end of its one-year range, and there have been very few values below the current IV. In such a scenario, the IVP is going to be close to 0. An IVP of say, 5, means that IV has been below the current IV only 5% of the time in the last 252 trading sessions.

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Distributor for Mutual Funds with AMFI

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