



Daily Derivatives Report

Nifty Futures

	Value	Change
Most recent settlement	23,223.9	-1.1% ▼
Open Interest (OI)	2,21,69,225	1.3% ▲
Change in OI (abs)	2,21,69,225	2,79,890 ▲
Premium / Discount (Abs)	105	18 ▲
Inference	Short Buildup	

Bank Nifty Futures

	Value	Change
Most recent settlement	56,079.4	-1.4% ▼
Open Interest (OI)	25,36,290	2.2% ▲
Change in OI (abs)	25,36,290	55,110 ▲
Premium / Discount (Abs)	285	22 ▲
Inference	Short Buildup	

Volatility Insights

	Value	Change
India VIX Index	13.43	1.2 ▲
Nifty ATM IV (%)	13.70	1.0 ▲
Bank Nifty ATM IV (%)	15.40	0.9 ▲
PCR (Nifty)	0.83	0.12 ▼
PCR (Bank Nifty)	0.82	0.12 ▼

The FII Long Ratio in Index Futures was steady 14%, **up** from 13% in the previous session.

Single Stock Futures Movers

Long Buildup (Open Interest Higher + Price Higher)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
SAGILITY	7,82,52,000	4.7%	45.9	1.1%
MPHASIS	55,58,300	4.1%	2,379.9	2.9%
ALKEM	17,33,500	2.6%	5,213.5	1.9%
NAUKRI	1,42,59,300	2.0%	1,266.8	0.6%
TATASTEEL	28,90,49,750	0.6%	183.42	0.2%

Short Buildup (Open Interest Higher + Price Lower)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
SOLARINDS	11,67,600	32.9%	19,240	-14.3%
BDL	98,32,375	9.5%	1,113	-5.5%
WAAREEENER	76,21,250	6.0%	2,536.6	-3.2%
SIEMENS	40,12,225	5.1%	3,758.7	-4.6%
HYUNDAI	42,94,950	4.7%	2,139.2	-1.8%

Short Covering (Open Interest Lower + Price Higher)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
DABUR	3,15,52,500	-7.5%	385.6	2.2%
KALYANKJIL	2,71,13,400	-7.2%	604.95	0.1%
INFY	7,82,80,000	-5.7%	1,081	3.7%
KPITTECH	1,07,55,450	-4.0%	565.3	1.8%
TATAELXSI	21,31,125	-3.5%	3,440.4	1.0%

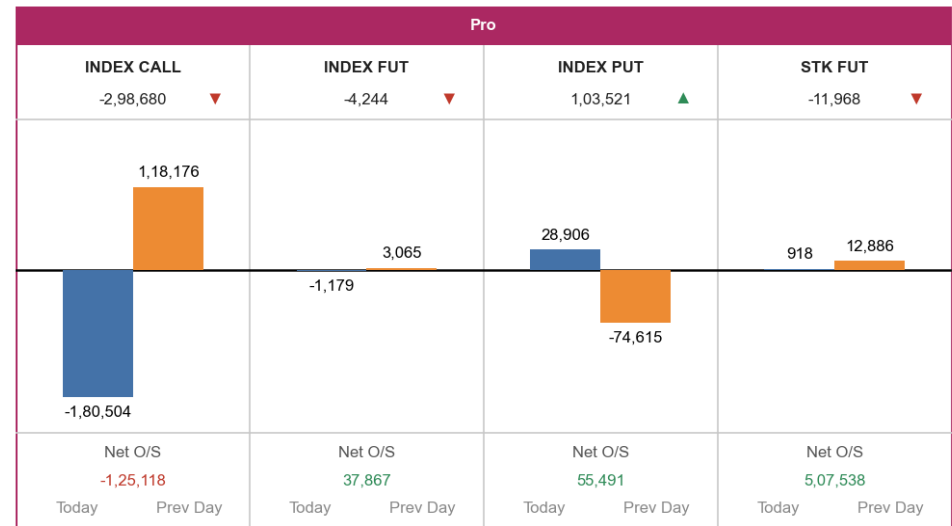
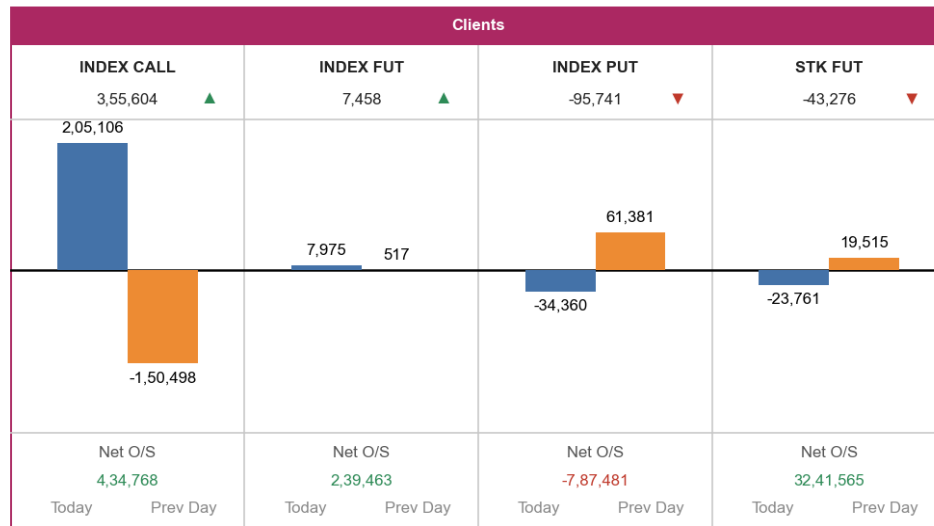
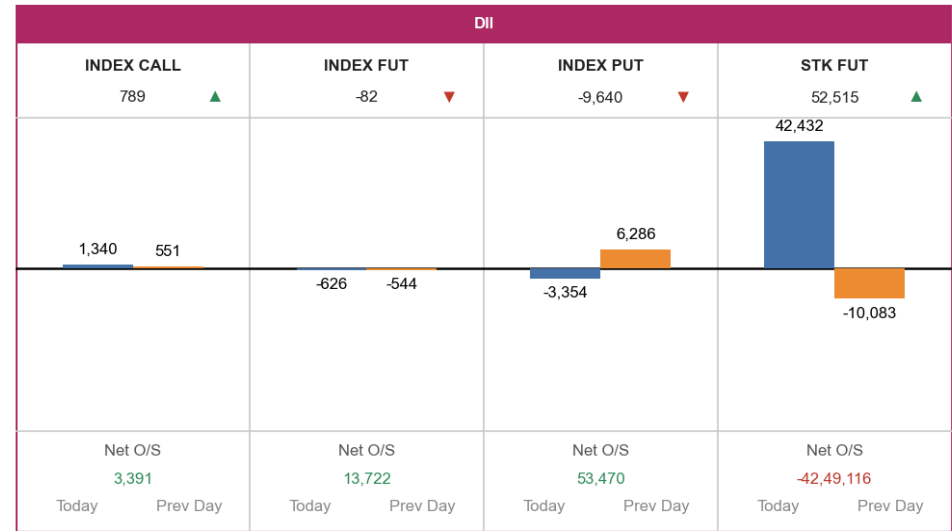
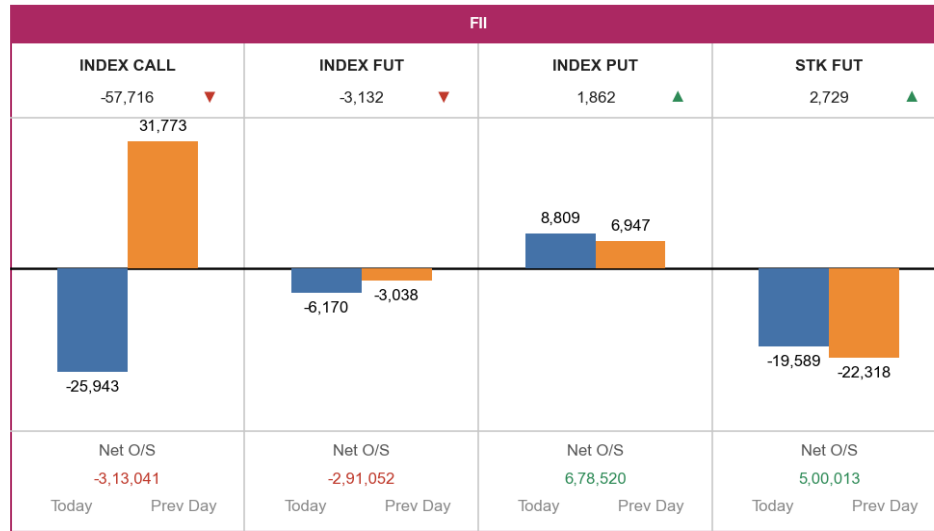
Long Unwinding (Open Interest Lower + Price Lower)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
PAYTM	1,75,57,325	-5.9%	1740.4	-4.4%
ANGELONE	2,97,27,500	-4.4%	298.55	-2.8%
PERSISTENT	35,23,375	-3.8%	5498.5	-0.5%
ADANIPO RTS	1,76,13,000	-3.3%	1724.9	-2.3%
ADANIENT	1,61,52,975	-3.2%	2932.7	-4.5%

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

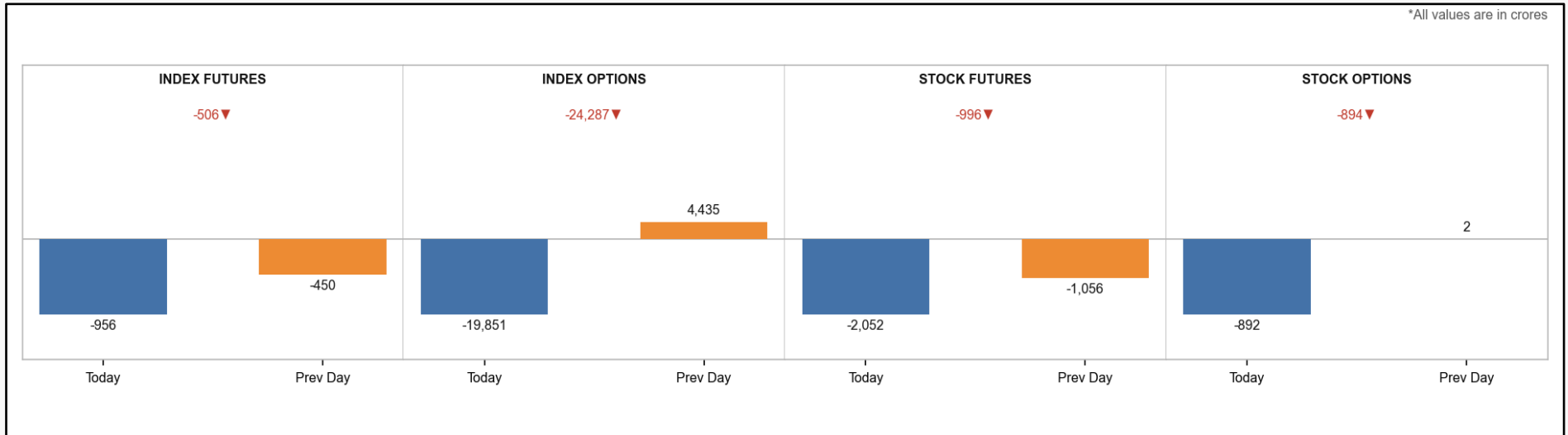
Data Source : NSEBHAVCOPY

Open Interest Trends by Participant

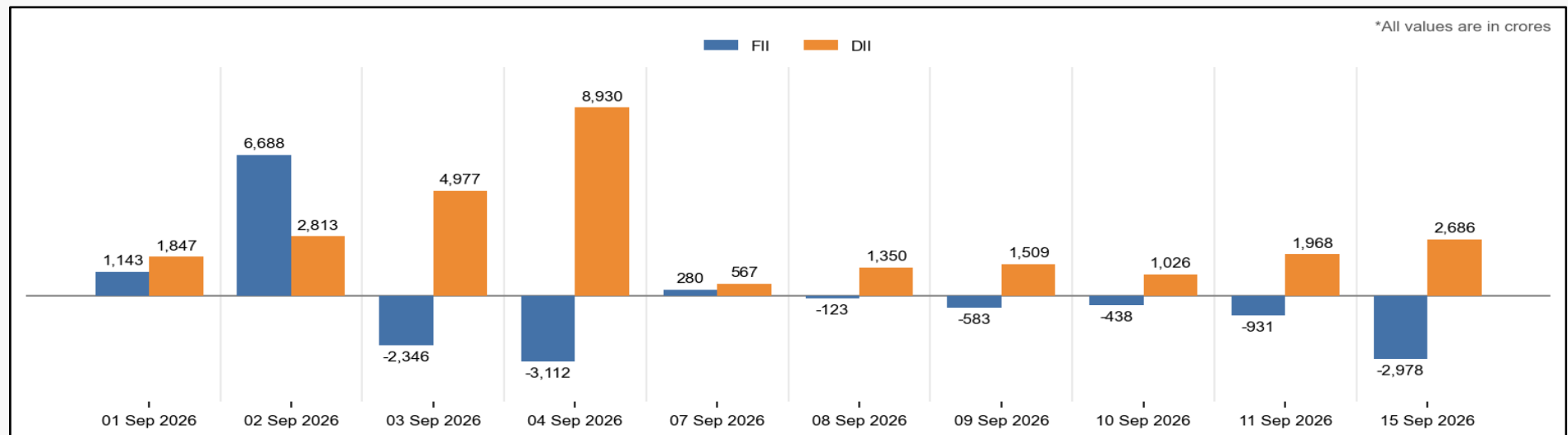
▲ and ▼ indicate positive and negative changes, respectively



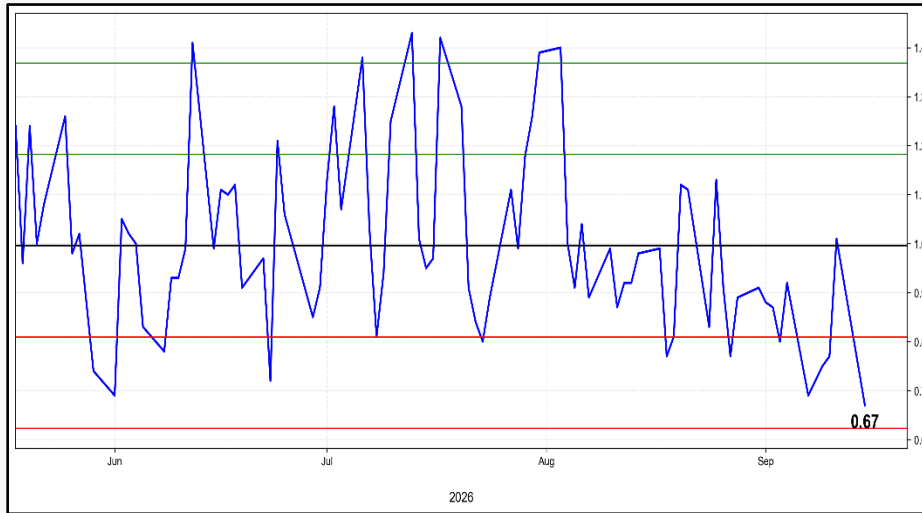
Daily Net Open Interest Change



DII and FII Daily Cash Market Flows



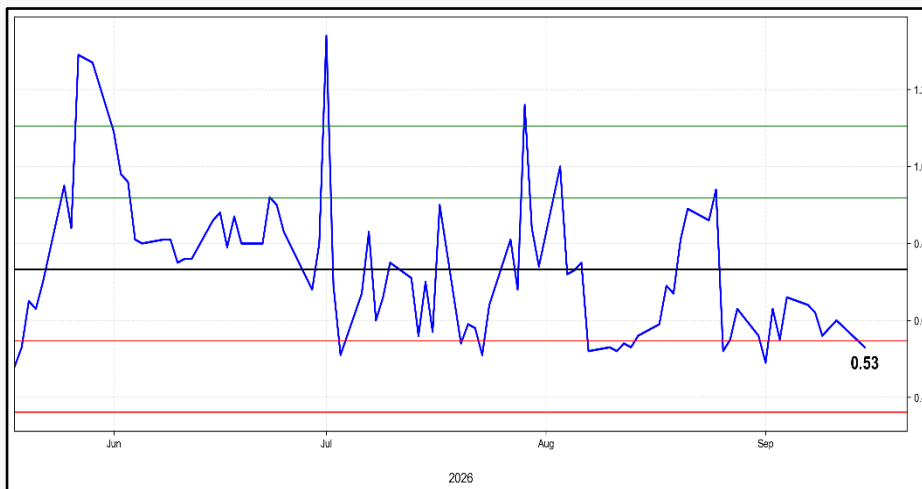
Nifty



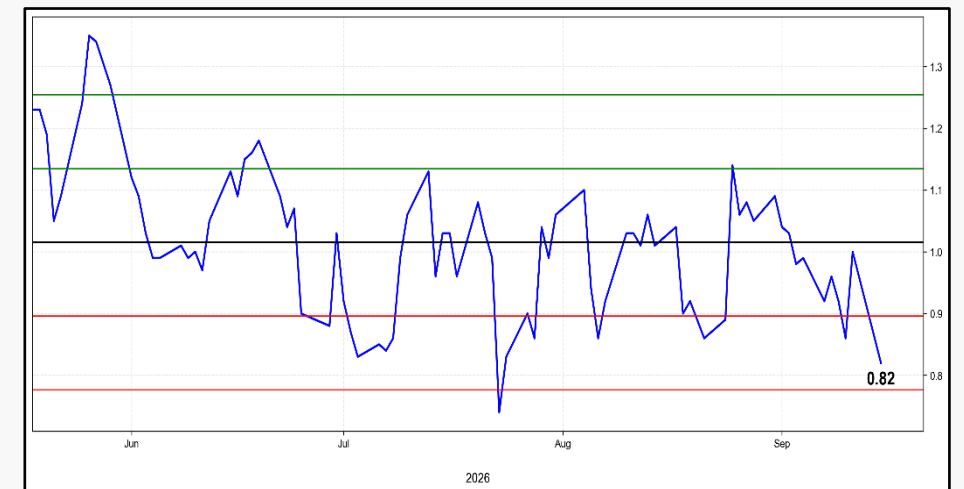
Bank Nifty



Fin Nifty



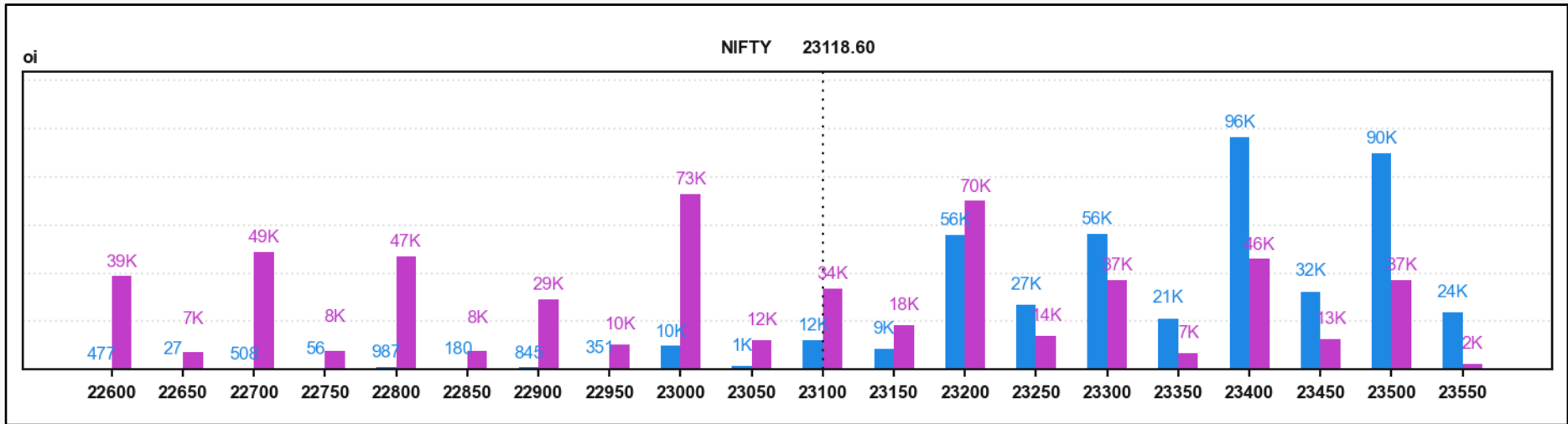
Midcap Select Nifty



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 23,400 Call and 23,000 Put had the highest call and put concentration (contracts). For the Bank Nifty, the 57,500 Call and the 56,000 Put saw the most amount of open interest.

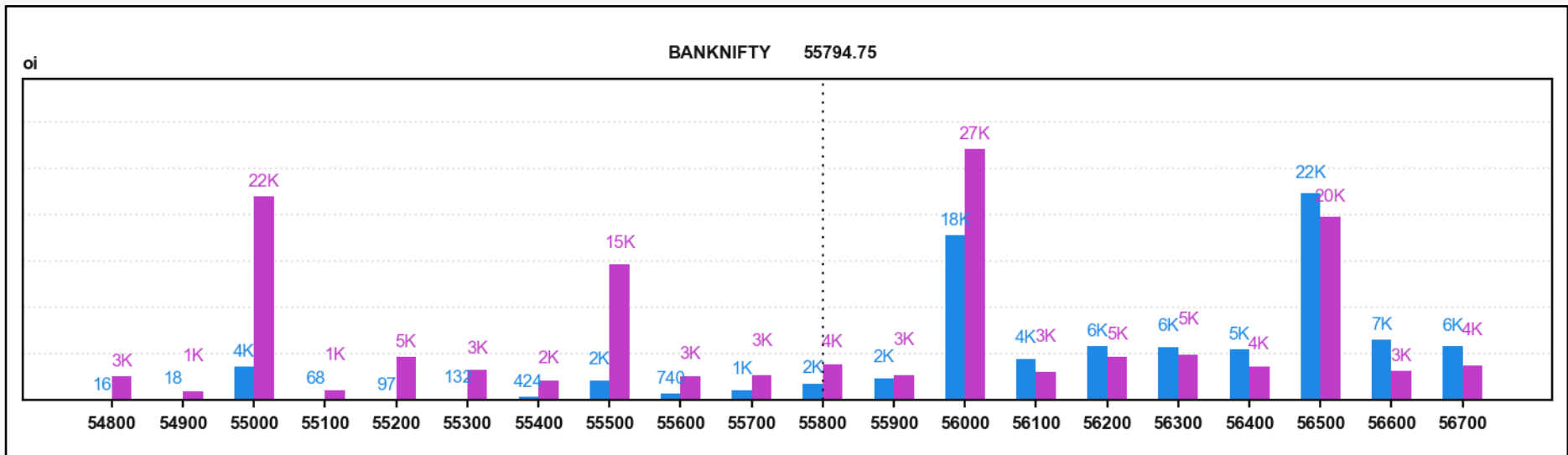
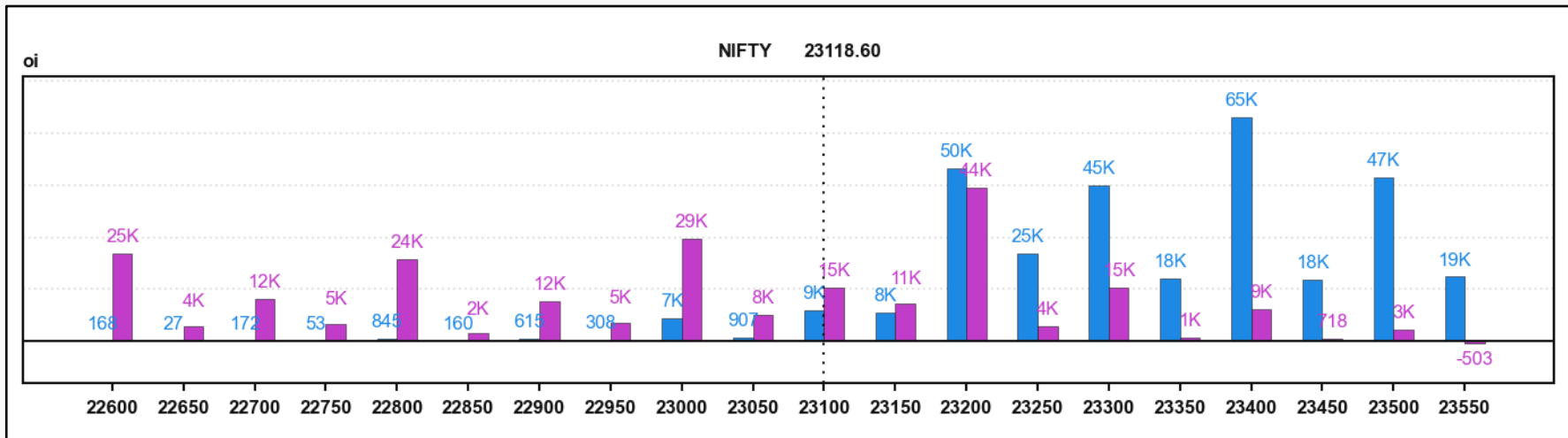


Chart quotes show front-month Nifty and Bank Nifty futures levels along with absolute and percentage change from prior trading session

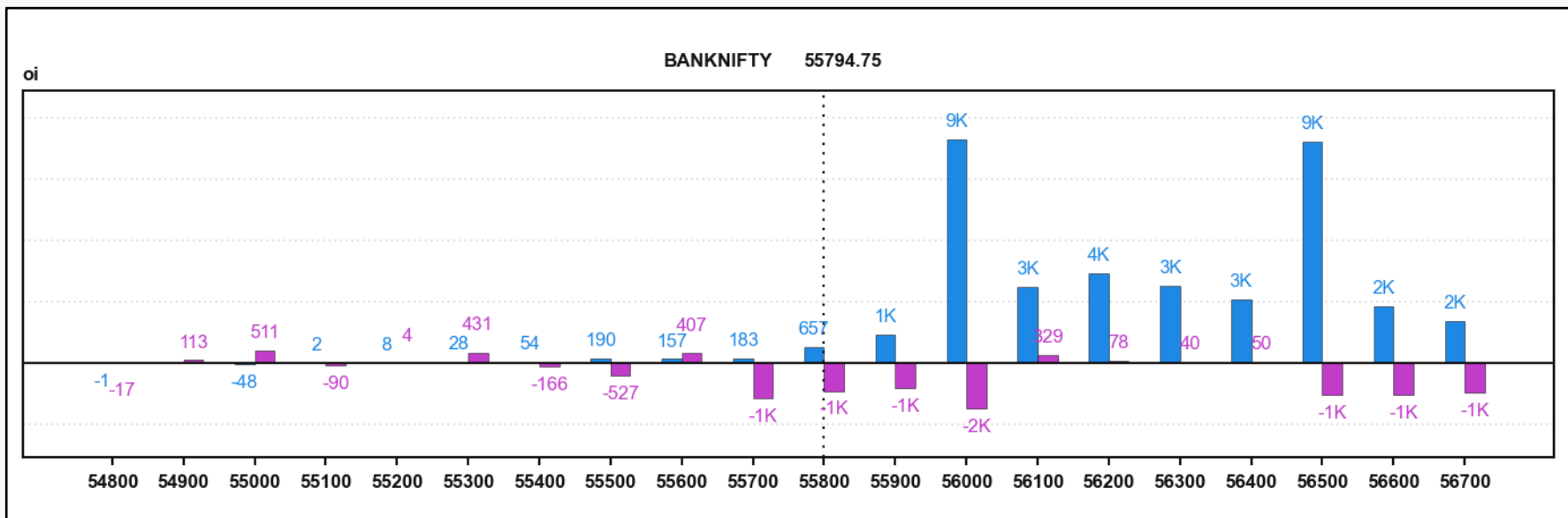
Data Source : NSE, MYFNO

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

Call  Put 



The largest open interest changes (contracts) were seen at the 23,400 Call and the 23,200 Put



For the Bank Nifty, the biggest open interest changes were seen at the 56,000 Call & the 56,000 Put

Stocks With High Call Volume To Put Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
SUZLON	42.9	-2.8	12,643.0	2,887.0	4.4
KPITTECH	563.1	1.7	37,009.0	9,538.0	3.9
GODREJCP	857.0	-0.9	9,014.0	2,330.0	3.9
IREDA	109.1	-2.4	5,074.0	1,483.0	3.4
CONCOR	483.7	-3.1	4,305.0	1,264.0	3.4

Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
UNOMINDA	1,159.7	-3.5	2,809.0	3,979.0	1.4
GRASIM	3,171.0	-3.4	10,476.0	13,237.0	1.3
PAGEIND	34,580.0	-2.2	4,092.0	4,222.0	1.0
RBLBANK	403.6	-2.2	4,333.0	4,363.0	1.0
BPCL	298.6	-1.9	6,287.0	6,304.0	1.0

Call Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
DIXON	13,181.0	-1.8	60,400.0	58,199.0	100.0
GODREJPROP	1,659.3	-5.1	18,951.0	17,125.0	100.0
MARUTI	12,231.4	-1.4	78,449.0	77,444.0	100.0
SOLARINDS	19,250.0	-13.6	44,384.0	21,657.0	100.0
APLAPOLLO	2,119.3	-1.6	7,577.0	7,624.0	99.4

Put Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Put OI	Highest Put OI	Relative to Highest Put OI
BDL	1,135.6	-4.6	13,041.0	13,017.0	100.0
SWIGGY	275.0	-1.2	16,466.0	16,424.0	100.0
KEI	4,500.0	-1.7	13,835.0	13,832.0	100.0
PRESTIGE	1,417.5	-5.4	4,937.0	4,916.0	100.0
SOLARINDS	19,250.0	-13.6	19,318.0	16,147.0	100.0

Call Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
SOLARINDS	19,250.0	-13.6	2,04,692.0	2,08,165.0	98.3
HDFCBANK	716.6	1.2	5,92,295.0	6,59,167.0	89.9
MPHASIS	2,378.0	3.6	35,262.0	56,020.0	62.9
BEL	382.7	-5.3	79,786.0	1,66,995.0	47.8
RELIANCE	1,235.3	-1.8	2,18,015.0	5,06,959.0	43.0

Put Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Put Vol	Highest PV	Relative to Highest PV
SOLARINDS	19,250.0	-13.6	1,81,437.0	1,17,874.0	100.0
MPHASIS	2,378.0	3.6	27,039.0	32,004.0	84.5
HDFCBANK	716.6	1.2	3,35,091.0	4,62,533.0	72.4
BEL	382.7	-5.3	37,402.0	67,738.0	55.2
TCS	2,251.0	2.3	1,39,192.0	3,04,214.0	45.8

Call Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
SOLARINDS	19,250.0	-13.6	44,384.0	14,274.6	3.1
KEI	4,500.0	-1.7	24,146.0	10,148.8	2.4
GODREJPROP	1,659.3	-5.1	18,951.0	9,038.6	2.1
OIL	485.6	-0.9	6,783.0	3,964.2	1.7
HAVELLS	1,087.0	-2.2	10,922.0	6,452.6	1.7

Put Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
KEI	4,500.0	-1.7	13,835.0	7,301.0	1.9
SOLARINDS	19,250.0	-13.6	19,318.0	10,577.2	1.8
GODREJPROP	1,659.3	-5.1	10,037.0	5,641.3	1.8
LODHA	1,064.8	-4.7	10,132.0	5,764.8	1.8
HCLTECH	1,253.7	3.9	18,967.0	11,779.8	1.6

Call Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
MPHASIS	2,378.0	3.6	35,262.0	5,309.6	6.6
SOLARINDS	19,250.0	-13.6	2,04,692.0	37,121.2	5.5
DABUR	384.9	2.4	33,307.0	7,721.4	4.3
BAJAJHLDNG	11,100.0	-0.3	6,059.0	1,633.4	3.7
HCLTECH	1,253.7	3.9	92,384.0	25,741.4	3.6

Put Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
MPHASIS	2,378.0	3.6	27,039.0	2,748.7	9.8
SOLARINDS	19,250.0	-13.6	1,81,437.0	21,536.0	8.4
HCLTECH	1,253.7	3.9	74,239.0	15,514.6	4.8
DABUR	384.9	2.4	16,300.0	3,595.6	4.5
TECHM	1,575.9	2.3	30,908.0	7,934.4	3.9

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
ADANIENT	3200	1409658	9.3%	2929	2900	781152	-1.0%
ADANIPORTS	1740	1587925	1.5%	1714	1760	997025	2.7%
APOLLOHOSP	9000	271500	3.3%	8714	8300	148750	-4.8%
ASIANPAINT	2600	614500	8.2%	2403	2380	325750	-0.9%
AXISBANK	1260	4861875	3.0%	1223	1180	1516250	-3.5%
BAJAJ-AUTO	12500	329850	9.4%	11424	11500	172425	0.7%
BAJAJFINSV	2020	1132200	8.9%	1856	1900	562800	2.4%
BAJFINANCE	1100	4104000	9.0%	1009	1020	1602000	1.1%
BEL	410	10530750	7.1%	383	410	5526150	7.1%
BHARTIARTL	1860	3936325	1.6%	1830	1840	1602175	0.5%
CIPLA	1480	864450	9.5%	1351	1300	907375	-3.8%
COALINDIA	440	5165100	4.9%	419	400	4461750	-4.6%
DRREDDY	1200	1779375	4.8%	1145	1080	1184375	-5.7%
EICHERMOT	8000	265900	7.3%	7453	7500	312900	0.6%
ETERNAL	340	15493325	7.9%	315	320	6241950	1.5%
GRASIM	3300	355500	4.1%	3171	3000	203750	-5.4%
HCLTECH	1320	1192800	5.3%	1254	1200	694400	-4.3%
HDFCBANK	730	21793200	1.9%	717	730	10803650	1.9%
HDFCLIFE	550	5241500	6.6%	516	500	3027200	-3.1%
HINDALCO	1040	2045400	8.5%	959	960	1600200	0.1%
HINDUNILVR	2100	2254200	8.4%	1938	1900	863700	-2.0%
ICICIBANK	1400	4188800	3.7%	1350	1400	2454900	3.7%
INDIGO	5200	688800	8.9%	4776	4900	458700	2.6%
INFY	1200	5699200	11.4%	1077	1100	3112800	2.1%
ITC	270	18281550	4.7%	258	255	7841850	-1.2%

Stock Name	CE Strike	CE OI	% Away	CMP	PE Strike	PE OI	% Away
JIOFIN	240	20409750	6.4%	226	220	8504650	-2.5%
JSWSTEEL	1360	1512000	10.6%	1229	1300	1231200	5.8%
KOTAKBANK	425	20536000	3.7%	410	400	5446000	-2.4%
LT	4000	1632225	3.9%	3851	4000	706825	3.9%
M&M	3400	1667200	12.2%	3030	3200	490800	5.6%
MARUTI	13500	442500	10.4%	12231	12000	134450	-1.9%
MAXHEALTH	1040	647325	1.0%	1030	1000	417900	-2.9%
NESTLEIND	1500	684500	10.1%	1362	1400	238500	2.8%
NTPC	340	8598000	3.2%	330	400	2347500	21.4%
ONGC	240	19669500	1.7%	236	225	4092750	-4.6%
POWERGRID	280	7985700	6.5%	263	270	3249000	2.7%
RELIANCE	1300	15039500	5.2%	1235	1300	5945500	5.2%
SBILIFE	1800	967125	8.8%	1654	1640	333750	-0.9%
SBIN	1100	9908250	13.6%	968	1000	4471500	3.3%
SHRIRAMFIN	1100	2364450	12.3%	980	1040	1319175	6.1%
SUNPHARMA	1940	1955800	5.7%	1835	1860	850850	1.4%
TATACONSUM	1050	857450	6.5%	986	950	860200	-3.7%
TATASTEEL	190	25671250	3.5%	184	185	11605000	0.7%
TCS	2400	1470825	6.6%	2251	2300	1527075	2.2%
TECHM	1640	2536800	4.1%	1576	1540	747000	-2.3%
TITAN	5200	487200	7.1%	4856	4800	485975	-1.2%
TMPV	320	8708800	5.4%	304	320	4452800	5.4%
TRENT	3000	1169775	9.9%	2730	2800	330750	2.6%
ULTRACEMCO	11500	110900	7.5%	10697	11000	81900	2.8%
WIPRO	180	15072000	5.9%	170	180	8319000	5.9%

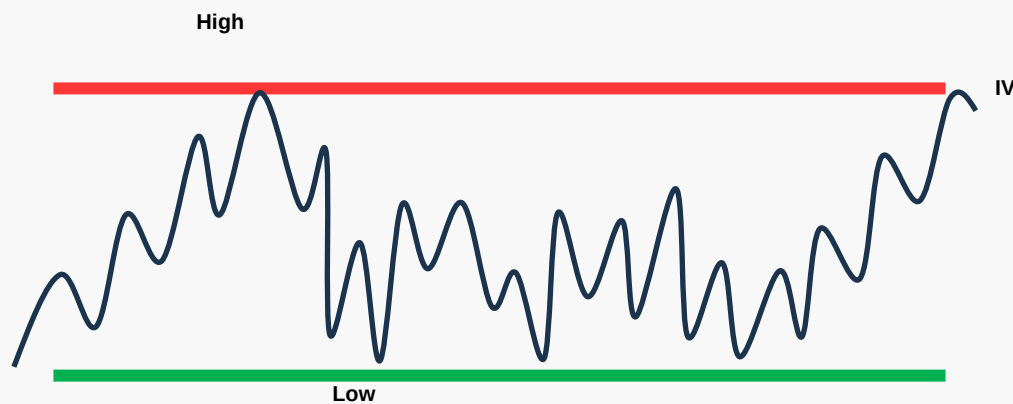
If CMP is 0% to 2.5% away from the current-expiry highest-OI call strike, the call %Away cell is colored green
 If CMP is 0% to 2.5% away from the current-expiry highest-OI put strike, the put %Away cell is colored red
 All other %Away cells remain uncolored

- 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**

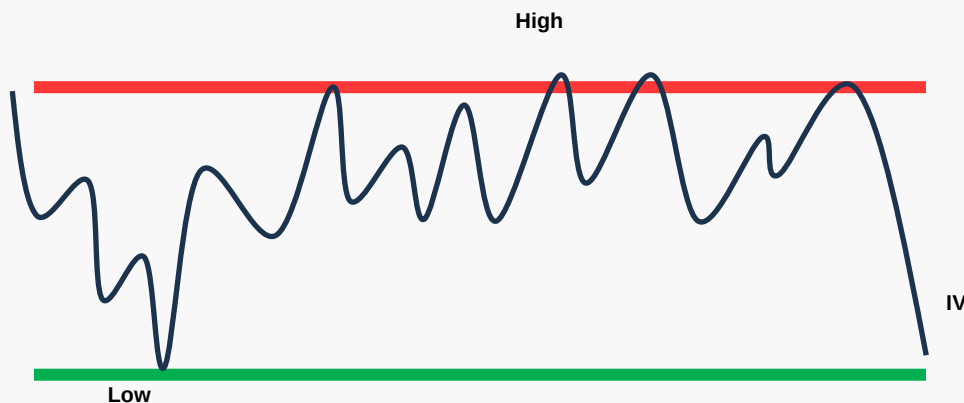
**ATM IV is the midpoint of the IV for the ATM call and put respectively*

- **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

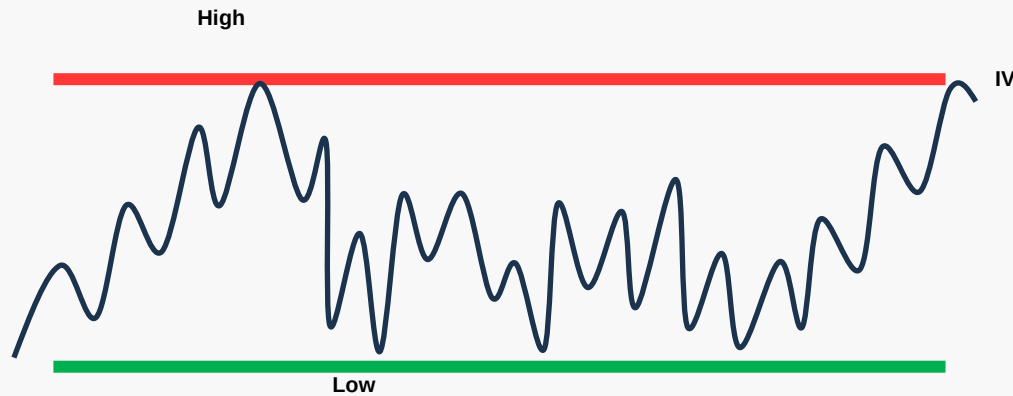


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

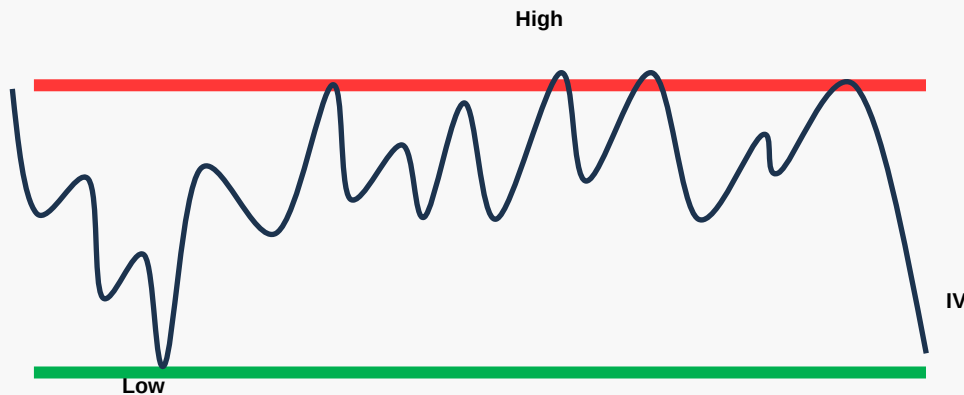


In this chart, notice that today's IV is close to the lowest low seen in the last 12 months. This means that IV for this option is cheap today compared to where it has traded over the last one year.

- **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.

Disclaimer & Disclosures

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Distributor for Mutual Funds with AMFI

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