

Daily Derivatives Report



Nifty Futures

	Value	Change
Most recent settlement	24,452	0.1%▼
Open Interest (OI)	1,58,59,100	1.1%▲
Change in OI (abs)	1,58,59,100	1,71,750▲
Premium / Discount (Abs)	53	5▲
Inference	Short Build Up	

Bank Nifty Futures

	Value	Change	
Most recent settlement	51,606	0.5% ▲	
Open interest (OI)	30,30,360	4.5%▼	
Change in OI (abs)	30,30,360	1,43,370▼	
Premium / Discount (Abs)	75	39▼	
Inference	Short Covering		

Volatility Insights

	Value	Change
India VIX Index	13.97	0.6▼
Nifty ATM IV (%)	12.22	0.5▼
Bank Nifty ATM IV (%)	14.47	1.0▼
PCR (Nifty)	0.86	0.1 ▲
PCR (Bank Nifty)	0.92	0.1 ▲

Single Stock Futures Movers

Long Buildup (Open Interest Higher + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
COFORGE	26,05,950	14.3%	7728.75	2.1%			
TATACOMM	72,60,000	8.5%	1792.6	0.6%			
PIDILITIND	28,36,500	7.7%	3132.5	1.1%			
SYNGENE	59,85,000	7.1%	883.75	5.5%			
SHREECEM	3,85,075	6.0%	24743.3	1.7%			

Short Buildup (Open Interest Higher + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
LALPATHLAB	11,95,200	28.4%	3061.3	-6.2%			
ESCORTS	22,12,925	18.6%	3493.9	-5.6%			
LTF	7,97,44,864	17.5%	145.15	-3.9%			
COLPAL	39,60,950	15.6%	3224.35	-3.5%			
NESTLEIND	90,63,200	14.2%	2258.2	-3.2%			

Short Covering (Open Interest Lower + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
PEL	1,24,20,750	-6.9%	1053.95	0.9%			
HINDPETRO	4,80,24,900	-4.3%	404.05	1.4%			
MFSL	71,02,400	-4.0%	1288	1.0%			
INDIAMART	31,89,600	-3.8%	2494.5	0.4%			
ABCAPITAL	4,60,45,800	-3.6%	212.99	0.8%			

Long Unwinding (Open Interest Lower + Price Lower)								
Symbol	Open Interest	Chg (%)	Price	Chg (%)				
PERSISTENT	19,09,400	-10.9%	5696.75	-0.7%				
SBILIFE	94,16,250	-8.8%	1638.05	-4.6%				
MCX	18,96,200	-6.9%	6645	-0.6%				
DABUR	1,93,03,750	-4.9%	542.15	-3.0%				
HINDALCO	4,07,73,600	-4.8%	691.05	-4.0%				

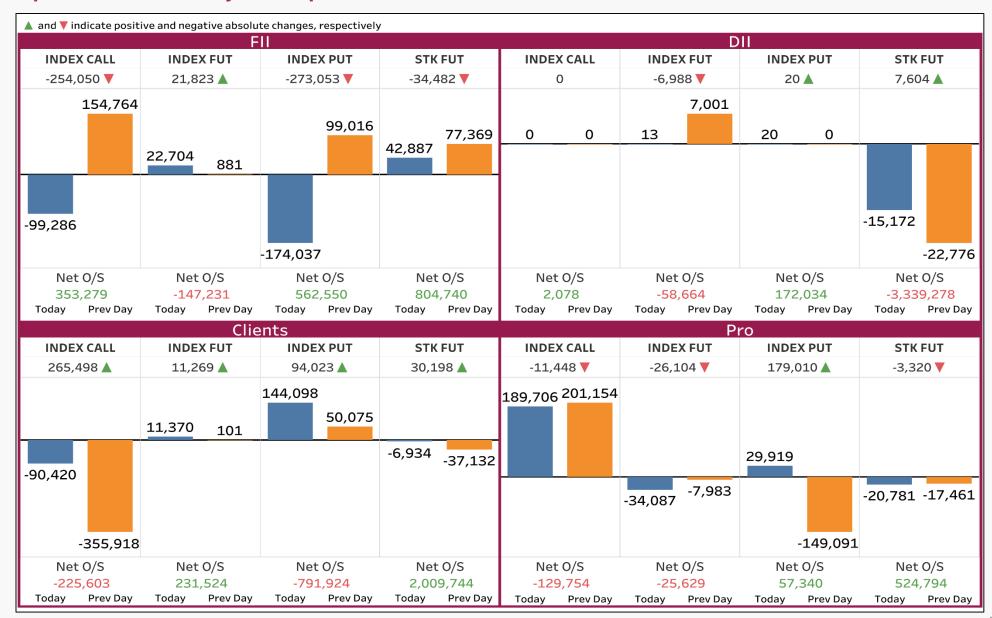
For an explanation of all the contents in this report, kindly click on the hyperlink at the top right which will take you to the end-of-report appendix

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

^{*}On expiration days, the premium/discount will be the difference between the new front-month contract and the cash market level on the day

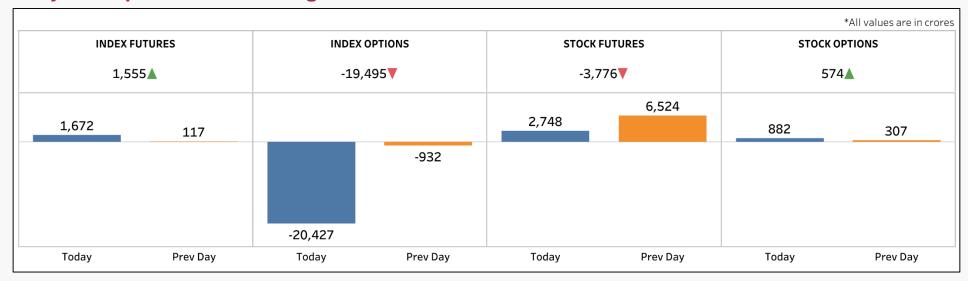


Open Interest Data by Participant

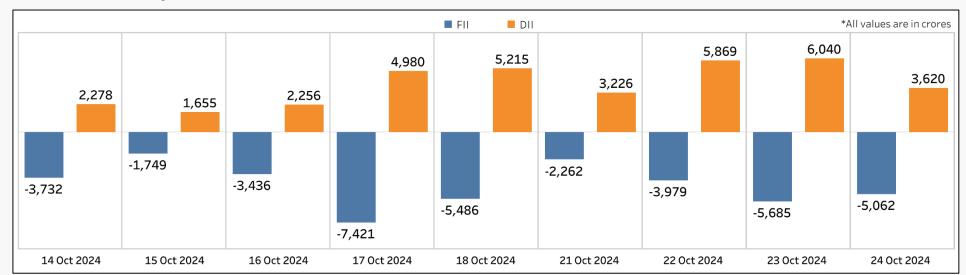




Daily Net Open Interest Change



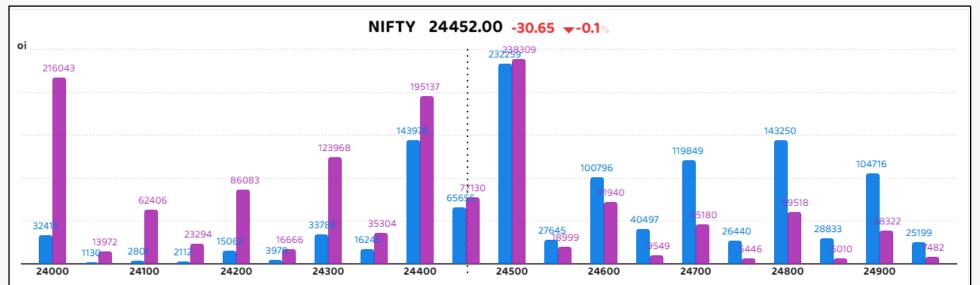
DII and FII Daily Cash Market Flows



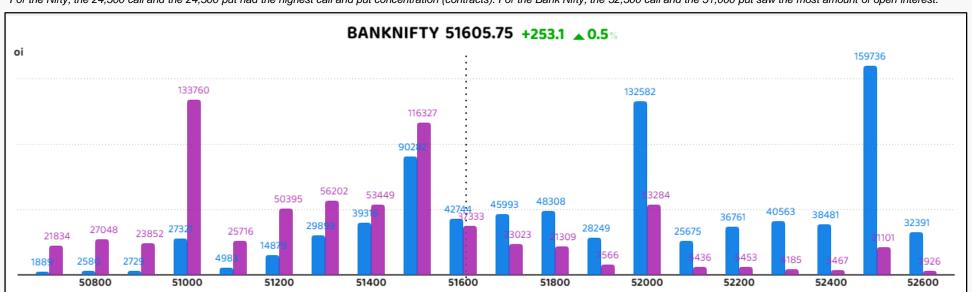


Positioning Stack by Strike (Current Week Expiry)





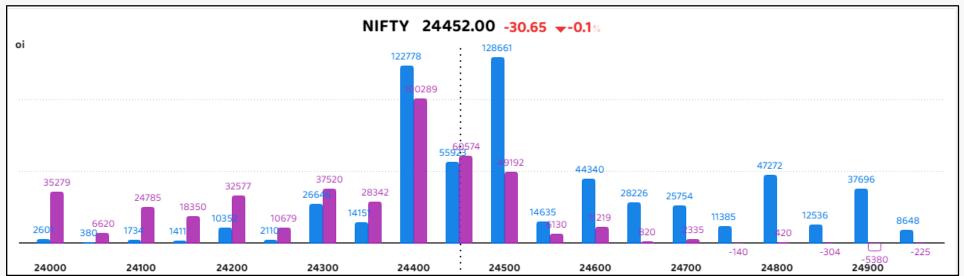
For the Nifty, the 24,500 call and the 24,500 put had the highest call and put concentration (contracts). For the Bank Nifty, the 52,500 call and the 51,000 put saw the most amount of open interest.



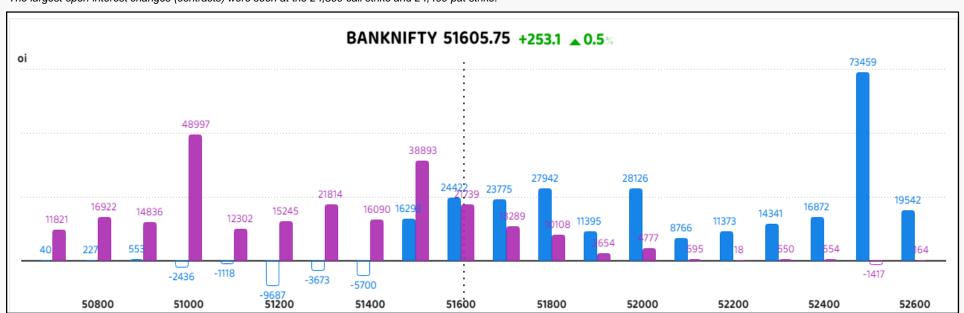


Open Interest Change (Current Week Expiry)

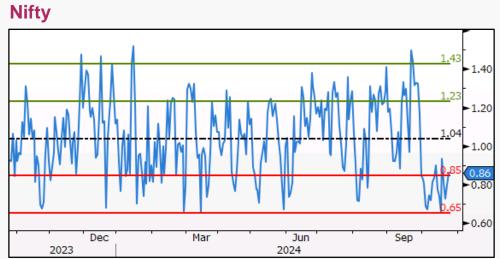


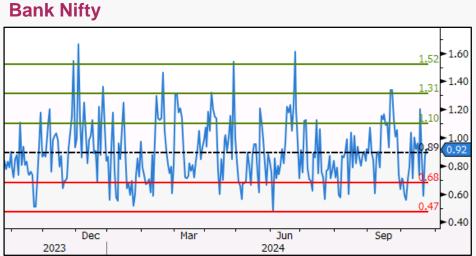


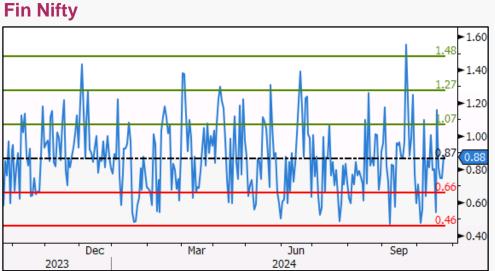
The largest open interest changes (contracts) were seen at the 24,500 call strike and 24,400 put strike.

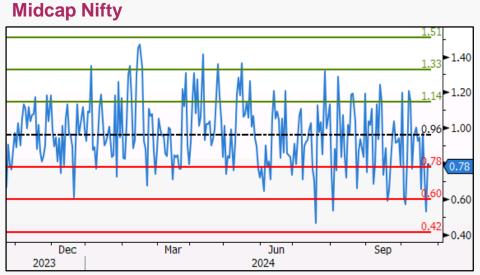






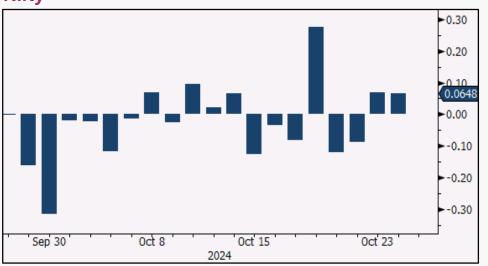




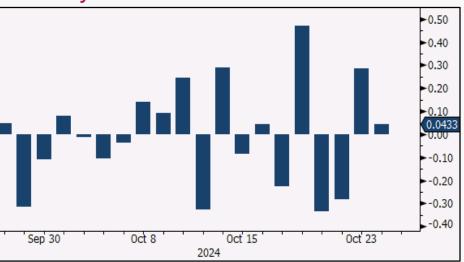




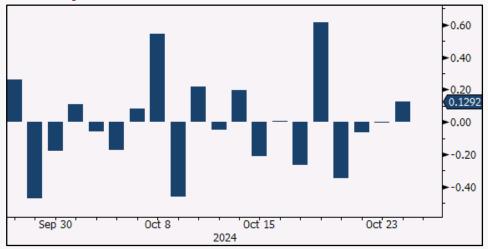
Nifty



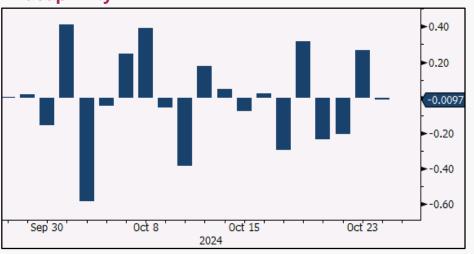
Bank Nifty



Fin Nifty



Midcap Nifty





Stocks with High IVR:

Ticker	Last Px	%1D	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
DIXON	15055.3	-1.5	49.8	51.3	1.8	96.9
GODREJCP	1255.1	-2.9	38.0	40.6	10.9	91.1
OFSS	10682.4	-4.7	50.2	58.2	8.9	83.8
TRENT	7488.0	-0.3	44.9	53.6	2.2	83.1
NMDC	215.9	-1.1	48.3	55.7	13.1	82.6

Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
BSOFT	569.1	-5.3	10.8	53.7	10.8	0.0
ICICIGI	1955.8	-0.2	9.9	36.3	9.4	1.9
BANKBARODA	244.8	2.9	30.1	66.9	24.5	13.2
HDFCLIFE	714.9	-1.2	23.9	80.5	14.9	13.7
TCS	4047.9	-0.5	19.9	57.2	13.5	14.5



Stocks With High IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
DIXON	15055.3	-1.5	49.8	51.3	1.8	99.1
GODREJCP	1255.1	-2.9	38.0	40.6	10.9	99.0
TRENT	7488.0	-0.3	44.9	53.6	2.2	97.3
MARICO	634.3	-3.4	33.0	38.2	13.9	96.9
NMDC	215.9	-1.1	48.3	55.7	13.1	95.9

Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
BSOFT	569.1	-5.3	10.8	53.7	10.8	0.0
ICICIGI	1955.8	-0.2	9.9	36.3	9.4	0.5
IEX	184.4	0.9	25.8	66.6	12.2	0.9
JKCEMENT	4193.7	-0.8	19.4	42.6	11.0	4.3
ATUL	7645.1	0.7	22.0	41.5	13.6	10.8



Stocks With High Call Volume To Put Volume

Ticker	Last Px	%1D	Total Call Vol	Total Put Vol	Call to Put Vol
JKCEMENT	4193.7	-0.8	6056	569	10.6
METROPOLIS	2135.4	0.7	12090	1730	7.0
IEX	184.4	0.9	555	93	6.0
PIIND	4320.9	-0.7	2714	490	5.5
LTIM	5970.4	0.6	12275	2398	5.1

Stocks With High Put Volume To Call Volume

Ticker	Last Px	Last Px %1D Tota		otal Call Vol Total Put Vol		
GODREJCP	1255.1	-2.9	17285	23828	1.4	
IDEA	8.1	-1.5	5212	5807	1.1	
CROMPTON	395.6	-0.2	3677	4044	1.1	
DABUR	541.0	-3.2	18174	19415	1.1	
ACC	2270.2	0.59	63911	66498	1.0	



Call Open Interest Relative to Record High

Ticker	Last Px	%1D	Total Call OI	Highest Call OI	Call OI Diff
DLF	801.4	-0.5	36102	36102	100.0
GODREJPROP	2924.4	-1.3	19452	19452	100.0
TVSMOTOR	2482.35	-3.1	25437	25437	100.0
ABB	7648.1	-0.7	16361	16361	100.0
SBILIFE	1635.3	-4.7	20703	20703	100.0

Put Open Interest Relative to Record High

Ticker	Last Px	%1D	Total Put OI	Highest Put OI	Put OI Diff	
GODREJPROP	2924.4	-1.35	9326	9326	100.0	
LALPATHLAB	3049.1	-6.35	4248	4248	100.0	
MFSL	1287.8	1.25	3677	3677	100.0	
COFORGE	7699.05	1.87	18193	18193	100.0	
MGL	1542.95	-2.32	6041	6041	100.0	



Call Volume Relative to Record High

Ticker	Last Px	%1D	Total Call Vol Highes		CV Diff	
SYNGENE	879.75	5.13	28895	28895	100.0	
NAVINFLUOR	3411.5	3.15	72331	72331	100.0	
HINDUNILVR	2505.1	-5.80	273520	273520	100.0	
LALPATHLAB	3049.1	-6.35	58893	58893	100.0	
PIDILITIND	3121.55	1.00	55554	70954	78.3	

Put Volume Relative to Record High

Ticker	Last Px	%1D	Total Put Vol	Highest PV	PV Diff	
SBILIFE	1635.3	-4.70	37928	37928	100.0	
PIDILITIND	3121.55	1.00	20882	20882	100.0	
NAVINFLUOR	3411.5	3.15	32965	32965	100.0	
HINDUNILVR	2505.1	-5.80	201361	201361	100.0	
LALPATHLAB	3049.1	-6.35	37446	37446	100.0	



Call Volume Relative to 20-day Average

Ticker	Last Px	%1D	Total Call Vol	Total Call Vol Avg Vol Cal 20D	
SYNGENE	879.8	5.1	28895	3674	7.9
NAVINFLUOR	3411.5	3.1	72331	9405	7.7
LALPATHLAB	3049.1	-6.3	58893	7668	7.7
HINDUNILVR	2505.1	-5.8	273520	39155	7.0
AUBANK	645.7	-1.0	65570	11200	5.9

Put Volume Relative to 20-day Average

Ticker	Last Px	%1D	Total Put Vol	Avg Vol Put 20D	20D Put Vol Diff
LALPATHLAB	3049.1	-6.3	37446	3834	9.8
ACC	2270.2	0.6	66498	7197	9.2
HINDUNILVR	2505.1	-5.8	201361	22876	8.8
NAVINFLUOR	3411.5	3.1	32965	4038	8.2
ESCORTS	3494.6	-5.6	48174	5958	8.1



Call Open Interest to 20-day Average

Ticker	Last Px	%1D	Total Call OI	Avg OI Call 20D	20 D Call OI Diff	
LALPATHLAB	3049.1	-6.3	9642	2741	3.5	
TVSMOTOR	2482.4	-3.1	25437	11075	2.3	
INDIAMART	2494.4	0.4	10284	4489	2.3	
AUBANK	645.7	-1.0	14635	6531	2.2	
ABB	7648.1	-0.7	16361	7526	2.2	

Put Open Interest to 20-day Average

Ticker	Last Px	%1D	Total Put OI	Avg OI Put 20D	20 D Put OI Diff
LALPATHLAB	3049.1	-6.3	4248	1629	2.6
COFORGE	7699.1	1.9	18193	7459	2.4
INDUSINDBK	1280.1	0.5	36452	17127	2.1
INDIAMART	2494.4	0.4	4074	1979	2.1
HINDUNILVR	2505.1	-5.8	21738	10685	2.0



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	3200	1396500	13.1%	2830	3200	651900	13.1%	INFY	1960	5896400	5.2%	1863	1860	1238400	-0.2%
ADANIPORTS	1500	1765600	10.8%	1354	1400	800800	3.4%	ITC	520	11625600	10.2%	472	480	3780800	1.8%
APOLLOHOSP	7000	242250	0.7%	6954	6900	127250	-0.8%	JSWSTEEL	1000	924075	4.4%	958	950	509625	-0.8%
ASIANPAINT	3400	848200	14.4%	2972	3000	360400	0.9%	KOTAKBANK	1900	3516000	7.8%	1762	1740	865200	-1.3%
AXISBANK	1200	4199375	2.8%	1167	1130	1316250	-3.2%	LT	3800	1469400	10.4%	3443	3550	553200	3.1%
BAJAJ-AUTO	12000	787350	16.5%	10303	10000	239175	-2.9%	LTIM	6400	250650	7.2%	5970	6000	166350	0.5%
BAJAJFINSV	2000	1167000	14.8%	1742	1700	381000	-2.4%	M&M	3200	1934800	13.2%	2826	2800	518350	-0.9%
BAJFINANCE	8000	632375	13.6%	7041	6800	518250	-3.4%	MARUTI	13000	644850	10.5%	11764	12000	165900	2.0%
BHARTIARTL	1740	2480925	3.7%	1678	1660	981825	-1.1%	NESTLEIND	2400	463200	6.3%	2259	2600	244600	15.1%
BPCL	380	6892200	18.2%	321	320	2338200	-0.5%	NTPC	450	14893500	9.2%	412	400	4216500	-2.9%
BRITANNIA	6000	132800	6.9%	5612	5600	115000	-0.2%	ONGC	300	23019150	11.5%	269	300	3004925	11.5%
CIPLA	1700	1140100	13.9%	1492	1600	395200	7.2%	POWERGRID	360	7635600	12.8%	319	340	2487600	6.5%
COALINDIA	500	4090800	4.8%	477	470	3227700	-1.5%	RELIANCE	3000	10726250	12.0%	2680	2700	2770500	0.8%
DIVISLAB	6000	250600	4.6%	5737	5500	163200	-4.1%	SBILIFE	1680	753375	2.7%	1635	1640	317250	0.3%
DRREDDY	6800	519875	3.3%	6583	6200	138500	-5.8%	SBIN	820	8895750	3.2%	795	780	3291000	-1.8%
EICHERMOT	5000	356825	7.1%	4669	4500	207375	-3.6%	SUNPHARMA	1960	2812250	6.0%	1849	1900	362250	2.8%
GRASIM	2800	370000	5.0%	2667	2700	176500	1.2%	TATACONSUM	1200	1219800	20.4%	996	1000	699960	0.4%
HCLTECH	1900	1759450	3.0%	1845	1800	1317050	-2.4%	TATAMOTORS	1000	13015750	13.6%	880	900	2926550	2.3%
HDFCBANK	1800	8784600	2.9%	1750	1700	3336850	-2.8%	TATASTEEL	170	47833500	14.1%	149	165	14905000	10.8%
HDFCLIFE	750	5263500	4.9%	715	700	1140700	-2.1%	TCS	4300	2000950	6.2%	4048	4000	558600	-1.2%
HEROMOTOCO	6000	958200	17.3%	5114	5100	278100	-0.3%	TECHM	1700	1308600	-2.1%	1736	1660	747600	-4.4%
HINDALCO	750	3463600	8.6%	691	680	1587600	-1.5%	TITAN	3800	907900	14.1%	3331	3300	439950	-0.9%
HINDUNILVR	2600	1083900	3.8%	2505	2500	607500	-0.2%	ULTRACEMCO	12000	215000	8.7%	11044	10800	118200	-2.2%
ICICIBANK	1300	3639300	3.8%	1253	1250	1980300	-0.2%	UPL	620	1904500	15.9%	535	530	899600	-0.9%
INDUSINDBK	1400	2113000	9.4%	1280	1260	3074500	-1.6%	WIPRO	550	4162500	0.6%	547	550	3208500	0.6%



- 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

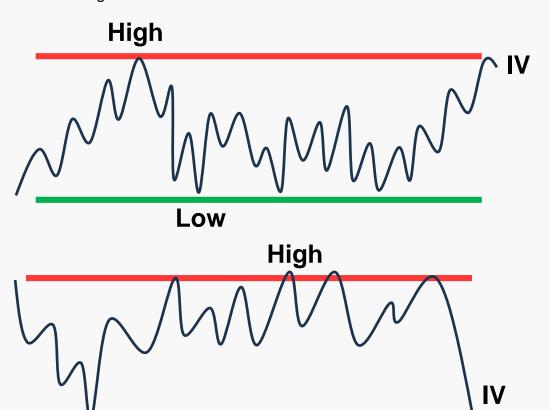


- Volume: Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- Open Interest: The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the 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): <u>www.nseindia.com</u>, Bloomberg, MyFnO



Low

- 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

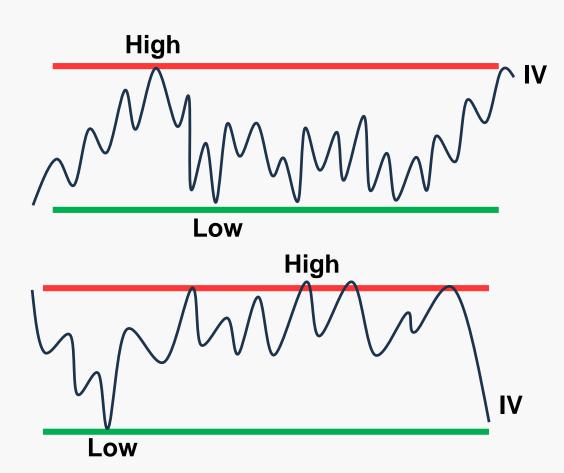


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

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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