

Oct 17, 2024



Daily Derivatives Report



Nifty Futures			Bank Nifty Futu	Volatility Insig	hts			
	Value	Change		Value	Change		Value	Change
Most recent settlement	25,049	0.3%▼	Most recent settlement	52,043	0.1%▼	India VIX Index	13.05	0.1 ▲
Open Interest (OI)	1,58,57,900	0.9%▲	Open interest (OI)	33,98,460	0.3%▼	Nifty ATM IV (%)	11.29	0.3▼
Change in OI (abs)	1,58,57,900	1,43,175	Change in OI (abs)	33,98,460	8,370▼	Bank Nifty ATM IV (%)	14.06	0.3▲
Premium / Discount (Abs)	78	17▲	Premium / Discount (Abs)	242	41 ▲	PCR (Nifty)	0.74	0.0▼
Inference	Short Bui	ld Up	Inference	Inference Long Unw		PCR (Bank Nifty)	0.96	0.0▲

*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

Single Stock Futures Movers

Long Buildup (Open Interest Higher + Price Higher)			Short Buildup (Open Interest Higher + Price Lower))		
Symbol	Open Interest	Chg (%)	Price	Chg (%)		Symbol	Open Interest	Chg (%)	Price	Chg (%)
HDFCAMC	38,65,500	11.3%	4850.05	6.3%		COFORGE	21,99,000	13.1%	7243.75	-3.5%
INDIAMART	25,24,800	6.3%	3058.6	0.1%		ICICIGI	71,07,000	11.1%	2069.15	-1.8%
DEEPAKNTR	22,62,600	5.5%	2999.3	2.1%		POWERGRID	10,67,07,600	9.4%	328.8	-0.8%
GODREJPROP	40,38,075	4.7%	3243.75	2.5%		TRENT	37,06,400	6.1%	7820.9	-4.1%
VOLTAS	74,80,200	4.4%	1889.15	3.8%		ZYDUSLIFE	1,70,52,300	5.8%	1021.9	-3.8%

Short Covering (Open Interest Lower + Price Higher)								
Symbol	Open Interest	Chg (%)	Price	Chg (%)				
DIVISLAB	35,98,000	-8.3%	6141.75	0.1%				
SIEMENS	20,32,950	-7.1%	7999.25	1.4%				
CUMMINSIND	38,09,700	-6.3%	3811.55	3.4%				
ABB	13,98,875	-5.2%	8799.05	1.3%				
HDFCLIFE	2,31,71,500	-4.5%	728.2	1.8%				

Long Unwinding (Open Interest Lower + Price Lower)								
Symbol	Open Interest	Chg (%)	Price	Chg (%)				
GLENMARK	46,92,925	-7.4%	1785.5	-1.5%				
BALRAMCHIN	65,47,200	-7.2%	650.2	-2.7%				
OFSS	8,18,600	-7.0%	11620.65	-1.8%				
POLYCAB	25,00,500	-6.4%	7197.6	-4.2%				
COLPAL	30,38,700	-3.5%	3502.2	-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



Open Interest Data by Participant

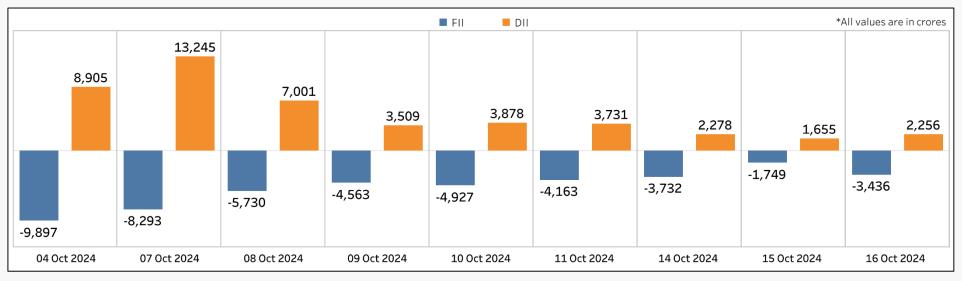
🔺 and 🔻 indicate posi	tive and negative absolu		/				
	F				D		
INDEX CALL	INDEX FUT	INDEX PUT	STK FUT	INDEX CALL	INDEX FUT	INDEX PUT	STK FUT
192,796 🔺	-2,953 🔻	283,730 🔺	18,574 🔺	0	-398 🔻	4,000 🔺	-20,130 🔻
172,540		319,400 35,670		0 0	-2,301 -1,903	0 -4,000	-2,063
-20,256	-10,435 -7,482		-14,532 -33,106				-22,193
Net O/S	Net O/S	Net O/S	Net O/S	Net O/S	Net O/S	Net O/S	Net O/S
654,060 Today Prev Day	- <mark>168,104</mark> Today Prev Day	901,772 Today Prev Day	657,046 Today Prev Day	2,078 Today Prev Day	- 71,254 Today Prev Day	160,418 Today Prev Day	- <mark>3,297,375</mark> Today Prev Day
Today Trev bay		ents	Today Trev Day	Today Trev Day		ro	Today Trev bay
INDEX CALL	INDEX FUT	INDEX PUT	STK FUT	INDEX CALL	INDEX FUT	INDEX PUT	STK FUT
-234,431 🔻	4,219	-253,990 🔻	-3,960 🔻	41,635	-868 🔻	-33,740 🔻	5,516
132,815	7,130 2,911		20,405 24,365		5,606 6,474	89,134 55,394	16,320 10,804
-101,616		-120,804		-70,924 -112,559			
Net O/S	Net O/S	Net O/S	Net O/S	Net O/S	Net O/S	Net O/S	Net O/S
	,			· · ·		,	,
-322,339	200,565 Today Prev Day	-1,145,705	2,117,193 Today Prev Day	-333,799	38,793	83,515	523,136



Daily Net Open Interest Change



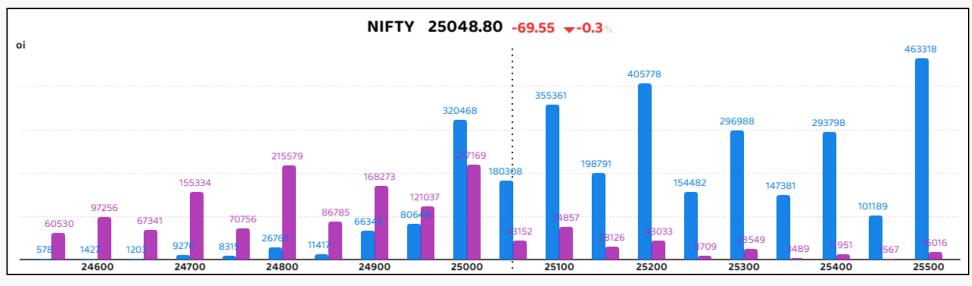
DII and FII Daily Cash Market Flows

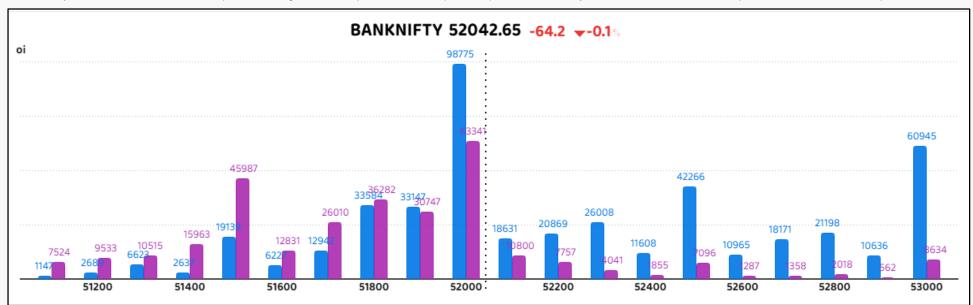




Positioning Stack by Strike (Current Week Expiry)







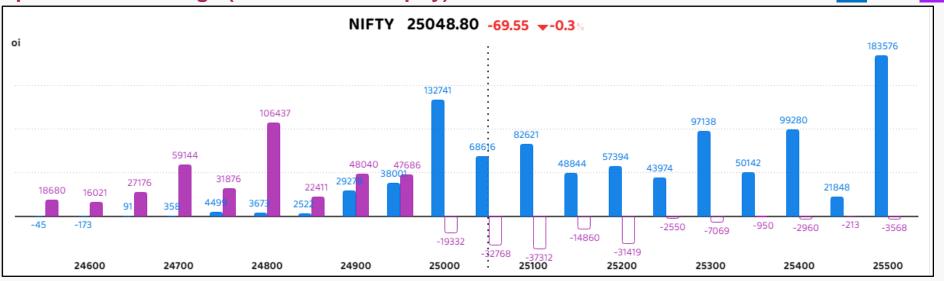
For the Nifty, the 25,500 call and the 25,000 put had the highest call and put concentration (contracts). For the Bank Nifty, the 52,000 call and the 52,000 put saw the most amount of open interest.

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

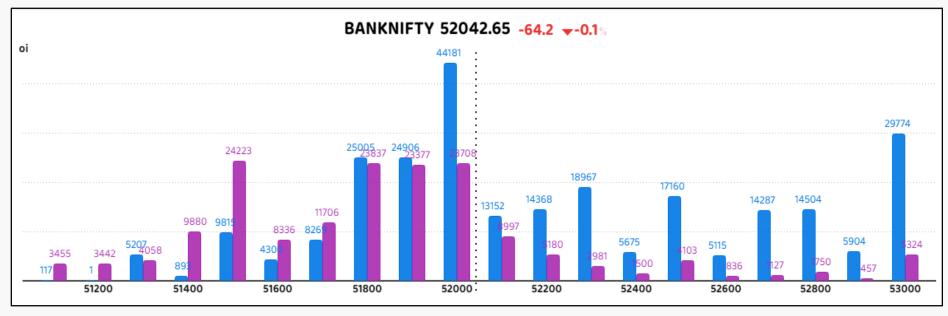


Open Interest Change (Current Week Expiry)





The largest open interest changes (contracts) were seen at the 25,500 call strike and 24,800 put strike.



For the Bank Nifty, the biggest open interest changes were seen at the 52,000, Call Strike & 51,500 Put strike.



1.60

1.40

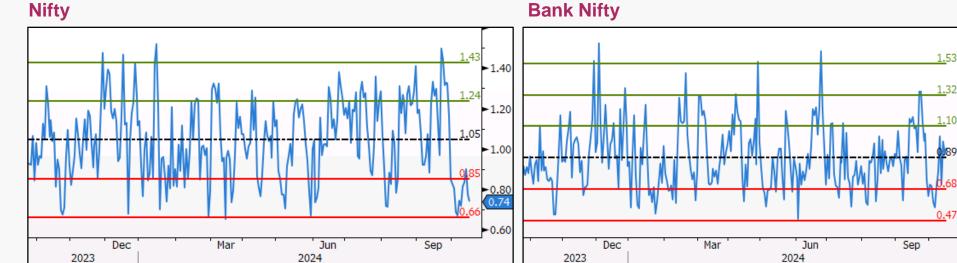
1.20

0.96

►0.80

-0.60

0.40

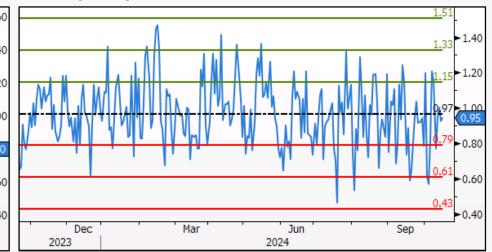


Bank Nifty

Fin Nifty

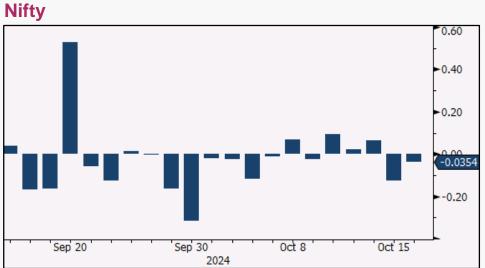
1.60 1.48 1.40 1.28 -1.20 1.00 0.80 •0.60 0.40 Mar Jun Sep Dec 2024 2023

Midcap Nifty





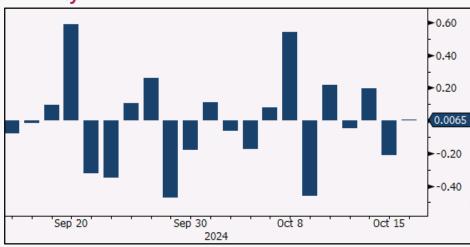
Put-Call Ratio Change



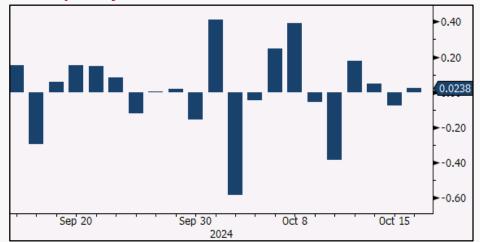
0.40 0.30 0.20 0.10 0.00 -0.10 -0.10 -0.10 -0.10 -0.20 -0.30 -0.20 -0.30 -0.30 -0.30 -0.20 -0.10 -0.10 -0.20 -0.10 -0.30 -0.10 -0.10 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.30 -0.10 -0.30 -0.10 -0.30

Bank Nifty





Midcap Nifty





Stocks with High IVR:

Ticker	Last Px	%1D	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
IDFCFIRSTB	72.2	-0.7	87.4	87.4	11.2	100.0
DIXON	15318.1	-0.6	38.5	51.3	1.8	74.1
TITAN	3471.0	-1.1	25.3	33.4	2.3	73.8
TRENT	7805.8	-3.9	40.0	53.6	2.2	73.5
RBLBANK	210.7	0.9	61.6	79.2	13.3	73.2

Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
AUROPHARMA	1482.1	0.1	22.9	48.9	22.9	0.0
LTF	166.8	-0.7	22.6	46.9	22.6	0.0
IDFC	108.0	-1.8	5.2	42.4	4.3	2.6
IRCTC	892.6	-0.3	24.1	59.6	22.3	4.8
GNFC	643.9	-0.3	7.5	53.0	4.8	5.6



Stocks With High IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
IDFCFIRSTB	72.2	-0.7	87.4	87.4	11.2	100.0
RBLBANK	210.7	0.9	61.6	79.2	13.3	99.1
ALKEM	6094.3	-2.7	33.3	48.8	14.7	84.5
BHARTIARTL	1734.0	1.0	24.9	34.3	4.6	84.3
TRENT	7805.8	-3.9	40.0	53.6	2.2	83.7

Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
LTF	166.8	-0.7	22.6	46.9	22.6	0.0
AUROPHARMA	1482.1	0.1	22.9	48.9	22.9	0.0
GNFC	643.9	-0.3	7.5	53.0	4.8	0.5
IDFC	108.0	-1.8	5.2	42.4	4.3	0.5
JKCEMENT	4347.9	0.6	16.4	42.6	11.0	1.9



Stocks With High Call Volume To Put Volume

Ticker	Last Px	%1D	Total Call Vol	Total Put Vol	Call to Put Vol
GNFC	643.9	-0.3	156	21	7.4
NAVINFLUOR	3461.3	3.0	16015	2182	7.3
SAIL	129.9	-0.8	398	74	5.4
CHAMBLFERT	501.6	-0.5	175	33	5.3
IDEA	9.3	1.9	14652	2771	5.3

Stocks With High Put Volume To Call Volume

Ticker	Last Px	%1D	Total Call Vol	Total Put Vol	Put to Call Vol
GUJGASLTD	586.3	0.1	4575	5729	1.3
PERSISTENT	5543.9	-1.5	6600	8230	1.2
IPCALAB	1655.7	-2.8	5416	6466	1.2
SRF	2306.1	-1.9	14205	15623	1.1
NATIONALUM	217.3	-0.8	363	364	1.0



Call Open Interest Relative to Record High

Ticker	Last Px	%1D	Total Call OI	Highest Call OI	Call OI Diff
RELIANCE	2708.15	0.7	342530	342530	100.0
M&MFIN	290	1.3	13083	13083	100.0
OBEROIRLTY	2030.6	0.1	6712	6712	100.0
TRENT	7805.8	-3.9	19622	19622	100.0
BAJAJ-AUTO	11616.95	0.8	40150	40150	100.0

Put Open Interest Relative to Record High

Ticker	Last Px	%1D	Total Put OI	Highest Put OI	Put OI Diff
GODREJPROP	3227.85	2.58	9074	9074	100.0
HDFCAMC	4827.9	5.99	13683	14176	96.5
PFC	479.2	0.51	20503	21435	95.7
EXIDEIND	512.3	-1.89	9257	9708	95.4
ABCAPITAL	226.05	0.09	4770	5050	94.5



Call Volume Relative to Record High

Ticker	Last Px	%1D	Total Call Vol	Highest CV	CV Diff
HDFCAMC	4827.9	5.99	190222	199647	95.3
HDFCLIFE	726.8	1.76	66901	119222	56.1
RELIANCE	2708.15	0.75	434006	774461	56.0
SIEMENS	7986.3	1.48	61897	119437	51.8
CUMMINSIND	3798.4	3.53	36429	78120	46.6

Put Volume Relative to Record High

Ticker	Last Px	%1D	Total Put Vol	Highest PV	PV Diff
HDFCAMC	4827.9	5.99	95507	123022	77.6
IPCALAB	1655.65	-2.79	6466	12055	53.6
HDFCLIFE	726.8	1.76	26995	53582	50.4
PVRINOX	1626.85	0.38	23797	49707	47.9
ZYDUSLIFE	1020.1	-3.60	18713	40128	46.6



Call Volume Relative to 20-day Average

Ticker	Last Px	%1D	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Diff
HDFCAMC	4827.9	6.0	190222	23947	7.9
VOLTAS	1881.3	3.9	74076	13900	5.3
DEEPAKNTR	2999.5	2.3	42040	11032	3.8
CUMMINSIND	3798.4	3.5	36429	10670	3.4
SIEMENS	7986.3	1.5	61897	18696	3.3

Put Volume Relative to 20-day Average

Ticker	Last Px	%1D	Total Put Vol	Avg Vol Put 20D	20D Put Vol Diff
HDFCAMC	4827.9	6.0	95507	11117	8.6
VOLTAS	1881.3	3.9	30719	8191	3.8
ZYDUSLIFE	1020.1	-3.6	18713	5637	3.3
SRF	2306.1	-1.9	15623	4890	3.2
PVRINOX	1626.9	0.4	23797	7617	3.1



Call Open Interest to 20-day Average

Ticker	Last Px	%1D	Total Call OI	Avg OI Call 20D	20 D Call OI Diff
HDFCAMC	4827.9	6.0	13205	6021	2.2
SHREECEM	24439.6	-1.1	5253	2604	2.0
CIPLA	1562.2	-0.6	16544	8411	2.0
OBEROIRLTY	2030.6	0.1	6712	3465	1.9
ATUL	7890.4	0.7	4866	2537	1.9

Put Open Interest to 20-day Average

Ticker	Last Px	%1D	Total Put OI	Avg OI Put 20D	20 D Put OI Diff
HDFCAMC	4827.9	6.0	13683	3391	4.0
ATUL	7890.4	0.7	2517	1265	2.0
LALPATHLAB	3329.9	-1.8	2184	1131	1.9
HAVELLS	1939.3	0.2	7562	4048	1.9
PAGEIND	46593.2	0.7	3506	1904	1.8



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	СМР	PE Strike	PE OI	%Away
ADANIENT	3200	1980600	3.7%	3086	3100	1100100	0.5%	INFY	1960	6274000	2.1%	1920	1900	1907600	-1.0%
ADANIPORTS	1500	2157200	6.9%	1404	1400	976800	-0.3%	ITC	520	12577600	5.4%	493	500	4697600	1.4%
APOLLOHOSP	7000	172500	-1.0%	7071	7000	108250	-1.0%	JSWSTEEL	1050	1281150	6.1%	989	1000	714825	1.1%
ASIANPAINT	3400	1081000	10.3%	3082	3000	624800	-2.7%	KOTAKBANK	1900	2488800	1.3%	1876	1800	1002000	-4.1%
AXISBANK	1300	3031250	12.7%	1153	1150	1625625	-0.3%	LT	3800	2149200	7.6%	3533	3550	852750	0.5%
BAJAJ-AUTO	12000	405750	3.3%	11617	11500	223050	-1.0%	LTIM	6500	226650	2.2%	6359	5500	148650	-13.5%
BAJAJFINSV	2000	1892500	7.4%	1862	1900	360000	2.0%	M&M	3200	1611050	4.3%	3068	2900	702800	-5.5%
BAJFINANCE	8000	757750	15.0%	6956	7000	713375	0.6%	MARUTI	13000	665750	5.0%	12384	12000	141950	-3.1%
BHARTIARTL	1740	2512750	0.3%	1734	1700	990850	-2.0%	NESTLEIND	2520	362000	2.3%	2462	2400	284200	-2.5%
BPCL	380	9930600	8.3%	351	340	3067200	-3.1%	NTPC	450	15103500	6.1%	424	400	2557500	-5.7%
BRITANNIA	6200	176600	1.8%	6090	6000	137600	-1.5%	ONGC	300	24364725	5.1%	285	280	5191725	-1.9%
CIPLA	1700	1953900	8.8%	1562	1500	573950	-4.0%	POWERGRID	360	9212400	10.0%	327	330	5378400	0.9%
COALINDIA	500	4458300	0.9%	496	500	2862300	0.9%	RELIANCE	3000	12977000	10.8%	2708	2700	4115250	-0.3%
DIVISLAB	6300	288000	2.9%	6124	5800	273800	-5.3%	SBILIFE	1900	807375	9.6%	1734	1700	207750	-1.9%
DRREDDY	7000	338750	4.3%	6711	6200	140875	-7.6%	SBIN	800	7998000	-0.7%	805	800	5748000	-0.7%
EICHERMOT	4800	538125	2.6%	4678	4500	171675	-3.8%	SUNPHARMA	1960	2936850	3.2%	1899	1900	458850	0.1%
GRASIM	2800	412750	1.3%	2764	2600	139750	-5.9%	TATACONSUM	1200	1451904	7.7%	1114	1200	583224	7.7%
HCLTECH	1900	2234400	1.9%	1865	1800	859250	-3.5%	TATAMOTORS	1000	14876950	10.2%	907	900	4382400	-0.8%
HDFCBANK	1800	8629500	5.9%	1700	1600	2720300	-5.9%	TATASTEEL	170	57739000	9.5%	155	160	21890000	3.1%
HDFCLIFE	750	6332700	3.2%	727	700	1667600	-3.7%	TCS	4300	2679075	5.0%	4095	4000	838250	-2.3%
HEROMOTOCO	6000	925650	11.1%	5398	5500	360300	1.9%	TECHM	1700	2151000	2.4%	1660	1600	1042200	-3.6%
HINDALCO	780	3812200	6.4%	733	750	1685600	2.3%	TITAN	3800	1007650	9.5%	3471	3500	335825	0.8%
HINDUNILVR	3000	1176000	7.9%	2781	2700	578100	-2.9%	ULTRACEMCO	12000	188900	6.0%	11322	11000	77600	-2.8%
ICICIBANK	1300	3409700	4.6%	1243	1200	1820700	-3.5%	UPL	620	2173600	9.0%	569	600	748800	5.5%
INDUSINDBK	1500	2368000	11.4%	1346	1400	1318500	4.0%	WIPRO	550	5788500	3.4%	532	530	2610000	-0.4%

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

In distance to put sinke non current market price < distance to car sinke nom current market price, then the %Away to the put sinke will be uncleared

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



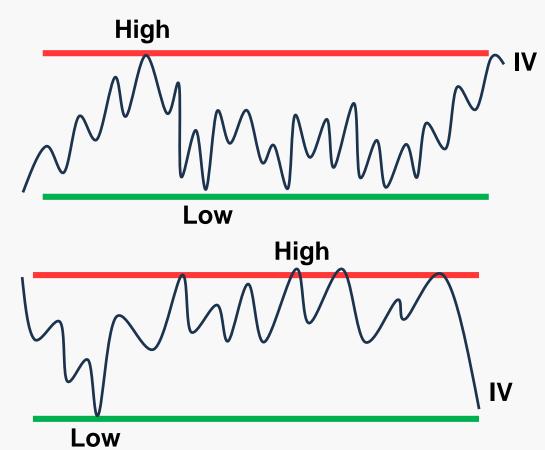
- Open interest **goes up** when **both** the buyer and the seller are **opening a new position**
- Open interest remains the same when one party is opening a new position and the other is liquidating an existing position
- Open interest falls when both the buyer and the seller are liquidating existing 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**



- 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



- 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.

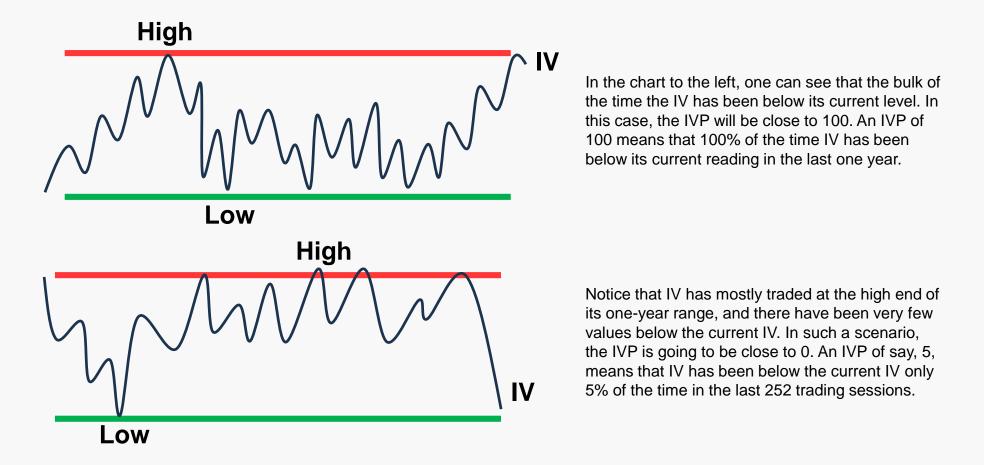
In this chart, notice that today's IV is close to the lowest low seen in the last 12 months. This means that IV for this option is cheap today compared to where it has traded over the last one year.

Appendix



Appendix

• 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.





Axis Securities Limited is a subsidiary company of Axis Bank Ltd. Axis Bank Ltd. is a listed public company and one of India's largest private sector banks and has its various subsidiaries engaged in businesses of Asset management, NBFC, Merchant Banking, Trusteeship, Venture Capital, Stock Broking, the details in respect of which are available on www.axisbank.com.

Axis Securities Limited, is registered as a Stock Broker, Depository Participant, Portfolio Manager, Investment Adviser and Research Analyst with Securities and Exchange Board of India Corporate Agent with Insurance Regulatory and Development Authority of India Point of Presence with Pension Fund Regulatory and Development Authority Distributor for Mutual Funds with AMFI

Registration Details:

SEBI Single Reg. No.- NSE, BSE, MSEI, MCX & NCDEX – INZ000161633 | SEBI Depository Participant Reg. No. IN-DP-403-2019 | Portfolio Manager Reg. No.- INP000000654 | Investment Advisor Reg No. INA000000615 | SEBI-Research Analyst Reg. No. INH000000297 | IRDA Corporate Agent (Composite) Reg. No. CA0073 | PFRDA – POP Reg. No. POP387122023 | Mutual Fund Distributor ARN- 64610.

Compliance Officer Details: Name - Mr. Maneesh Mathew, Tel No. - 022-68555574, Email id - compliance.officer@axisdirect.in.;

Registered Office Address – Axis Securities Limited, Unit No.002, Building- A, Agastya Corporate Park, Piramal Realty, Kamani Junction, Kurla (W), Mumbai – 400070.

Administrative office address: Aurum Q Parć, Q2 Building, Unit No. 1001, 10th Floor, Level – 6, Plot No. 4/1 TTC, Thane – Belapur Road, Ghansoli, Navi Mumbai, Pin Code – 400710.

In case of any grievances please call us at 022-40508080 or write to us helpdesk@axisdirect.in.

We hereby declare that our activities were neither suspended nor we have defaulted with any stock exchange authority with whom we are registered in last five years. However, SEBI, Exchanges, Clearing Corporations and Depositories etc. have conducted the routine inspection and based on their observations have issued advise/warning/show cause notices/deficiency letters/ or levied penalty or imposed charges for certain deviations observed in inspections or in normal course of business, as a Stock Broker / Depository Participant/Portfolio Manager. We have not been debarred from doing business by any Stock Exchange / SEBI or any other authorities; nor has our certificate of registration been cancelled by SEBI at any point of time.

Investments in securities market are subject to market risks. Read all the related documents carefully before investing. By referring to any particular sector, Axis Securities does not provide any promise or assurance of favourable view for a particular industry or sector or business group in any manner.

Registration granted by SEBI, membership of BASL (in case of IAs) and certification from NISM in no way guarantee performance of the intermediary or provide any assurance of returns to investors. None of the research recommendations promise or guarantee any assurance, minimum or risk-free return to the investors. Our research should not be considered as an advertisement or advice, professional or otherwise. This research report and its respective content by Axis Securities made available on this page or otherwise do not constitute an offer to sell or purchase or subscribe for any securities or solicitation of any investments or investment services for the residents of Canada and / or USA or any jurisdiction where such an offer or solicitation would be illegal.

Subject company(ies) may have been client during twelve months preceding the date of distribution of the research report. Derivatives are a sophisticated investment device. The investor is requested to take into consideration all the risk factors before actually trading in derivative contracts.

Past performance should not be taken as an indication or guarantee of future performance, and no representation or warranty, express or implied, is made regarding future performance. Information, opinions and estimates contained in this report reflect a judgment of its original date of publication by ASL and are subject to change without notice. The price, value of and income from any of the securities or financial instruments mentioned in this report can fall as well as rise. The value of securities and financial instruments is subject to exchange rate fluctuation that may have a positive or adverse effect on the price or income of such securities or financial instruments.

The information and opinions in this report have been prepared by Axis Securities and are subject to change without any notice. The report and information contained herein is strictly confidential and meant solely for the selected recipient and may not be altered in any way, transmitted to, copied or distributed, in part or in whole, to any other person or to the media or reproduced in any form, without prior written consent of Axis Securities. The report must not be used as a singular basis of any investment decision. The views herein are of a general nature and do not consider the risk appetite, investment objective or the particular circumstances of an individual investor. The investor is requested to take into consideration all the risk factors including their financial condition, suitability to risk return profile and the like and take professional advice before investing.

While we would endeavour to update the information herein on a reasonable basis, Axis Securities is under no obligation to update or keep the information current. Also, there may be regulatory, compliance or other reasons that may prevent Axis Securities from doing so. Non-rated securities indicate that rating on a particular security has been suspended temporarily and such suspension is in compliance with applicable regulations and/or Axis Securities policies, in circumstances where Axis Securities might be acting in an advisory capacity to this company, or in certain other circumstances.



Disclaimer & Disclosures :

This report is based on information obtained in good faith from public sources and sources believed to be reliable, but no independent verification has been made nor is its accuracy or completeness guaranteed. This report and information herein is solely for informational purpose and shall not be used or considered as an offer document or solicitation of offer to buy or sell or subscribe for securities or other financial instruments. Though disseminated to all the customers simultaneously, not all customers may receive this report at the same time. Axis Securities will not treat recipients as customers by virtue of their receiving this report. Nothing in this report constitutes investment, legal, accounting and tax advice or a representation that any investment or strategy is suitable or appropriate to your specific circumstances. The securities discussed and opinions expressed in this report may not be suitable for all investors, who must make their own investment decisions, based on their own investment objectives, financial positions and needs of specific recipient. This may not be taken in substitution for the exercise of independent judgment by any recipient. The recipient should independently evaluate the investment risks. The value and return on investment may vary because of changes in interest rates, foreign exchange rates or any other reason. Axis Securities accepts no liabilities whatsoever for any loss or damage of any kind arising out of the use of this report. Past performance is not necessarily a guide to future performance. Investors are advised to see Risk Disclosure Document to understand the risks associated before investing in the securities markets. Actual results may differ materially from those set forth in projections. Forward-looking statements are not predictions and may be subject to change without notice. Axis Securities or its associates might have managed or co-managed public offering of securities for the subject company or might have been mandated by the subject company for any other assignment in the past twelve months. Axis Securities or its associates might have received any compensation from the companies mentioned in the report during the period preceding twelve months from the date of this report for services in respect of managing or co-managing public offerings, corporate finance, investment banking or merchant banking, brokerage services or other advisory service in a merger or specific transaction. Axis Securities or its associates might have received any compensation for products or services other than investment banking or merchant banking or brokerage services from the companies mentioned in the report in the past twelve months. Axis Securities encourages independence in research report preparation and strives to minimize conflict in preparation of research report. Axis Securities or its associates or its analysts did not receive any compensation or other benefits from the companies mentioned in the report or third party in connection with preparation of the research report. Accordingly, neither Axis Securities nor Research Analysts and / or their relatives have any material conflict of interest at the time of publication of this report. Please note that Axis Securities has a proprietary trading desk. This desk maintains an arm's length distance with the Research team and all its activities are segregated from Research activities. The proprietary desk operates independently, potentially leading to investment decisions that may deviate from research views.

Compensation of our Research Analysts is not based on any specific merchant banking, investment banking or brokerage service transactions.

Research Analyst may have served as an officer, director or employee of subject company(ies). Axis Securities or Research Analysts or their relatives do not own 1% or more of the equity securities of the Company mentioned in the report as of the last day of the month preceding the publication of the research report. Since associates of Axis Securities and Axis Securities as an entity are engaged in various financial service businesses, they might have financial interests or actual/beneficial ownership of one percent or more or other material conflict of interest in various companies including the subject company/companies mentioned in this report. Axis Securities may have issued other reports that are inconsistent with and reach different conclusion from the information presented in this report. Certain transactions -including those involving futures, options and other derivatives as well as non-investment grade securities - involve substantial risk and are not suitable for all investors. Reports based on technical analysis centres on studying charts of a stock'sprice movement and trading volume, as opposed to focusing on a company's fundamentals and as such, may not match with a report on a company's fundamentals.

We and our affiliates/associates, officers, directors, and employees, Research Analyst(including relatives) worldwide may: (a) from time to time, have long or short positions in, and buy or sell the securities thereof, of company (ies) mentioned herein or (b) be engaged in any other transaction involving such securities and earn brokerage or other compensation or act as a market maker in the financial instruments of the subject company/company (ies) discussed herein or act as advisor or lender / borrower to such company (ies) or have other potential/material conflict of interest with respect to any recommendation and related information and opinions at the time of publication of Research Report or at the time of public appearance. Axis Securities may have proprietary long/short position in the above mentioned scrip(s) and therefore may be considered as interested. This should not be construed as invitation or solicitation to do business with Axis Securities. Axis Securities is also a Portfolio Manager. Portfolio Management Team (PMS) takes its investment decisions independent of the PCG research and accordingly PMS may have positions contrary to the PCG research recommendation.

Sr. No	Name	Designation	E-mail
1	Rajesh Palviya	SVP Research (Head Technical & Derivatives)	rajesh.palviya@axissecurities.in
2	Hemang Gor	Derivative Analyst	hemang.gor@axissecurities.in
3	Rahil Vora	Derivative Analyst	rahil.vora@axissecurities.in