

Daily Derivatives Report



Nifty Futures

	Value	Change	
Most recent settlement	25,175	0.3%▼	
Open Interest (OI)	1,90,50,300	1.3%▲	
Change in OI (abs)	1,90,50,300	2,50,875▲	
Premium / Discount (Abs)	63	29▲	
Inference	Short Build Up		

Bank Nifty Futures

	Value	Change	
Most recent settlement	56,973	0.5%▼	
Open interest (OI)	25,86,780	1.3%▲	
Change in OI (abs)	25,86,780	33,950▲	
Premium / Discount (Abs)	145	48▲	
Inference	Short Build Up		

Volatility Insights

	Value	Change
India VIX Index	11.24	0.00 ▲
Nifty ATM IV (%)	9.95	0.3▲
Bank Nifty ATM IV (%)	12.38	0.5 ▲
PCR (Nifty)	0.94	0.02 ▲
PCR (Bank Nifty)	0.85	0.07▼

The FII Long Ratio in Index Futures drop to 16.7%, down from 18.2% in the previous session.

Single Stock Futures Movers

Long Buildup (Open Interest Higher + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
PHOENIXLTD	44,05,800	10.0%	1509.3	1.5%			
ABB	31,41,625	9.3%	5655.5	1.7%			
HAVELLS	99,86,500	7.1%	1527.6	0.1%			
BLUESTARCO	22,65,250	5.5%	1876.7	1.0%			
360ONE	19,67,500	4.5%	1210	0.7%			

Short Buildup (Open Interest Higher + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
RBLBANK	9,11,22,500	23.4%	269.32	-0.1%			
LTIM	26,67,900	12.7%	5165.5	-3.4%			
BDL	41,93,150	7.9%	1751	-3.1%			
AMBER	2,70,800	7.3%	7627	0.0%			
POLYCAB	25,46,250	6.9%	6908	-1.0%			

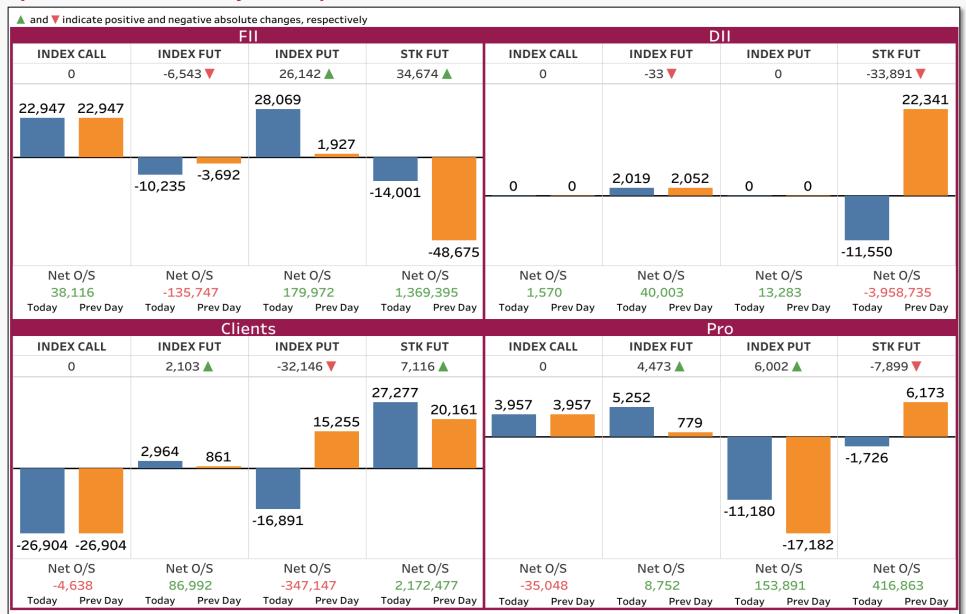
Short Covering (Open Interest Lower + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
MGL	20,26,400	-16.0%	1522.9	2.9%			
ANGELONE	31,91,250	-14.5%	2731.4	1.1%			
BALKRISIND	14,83,500	-9.4%	2753.5	3.6%			
GODREJPROP	67,84,525	-4.8%	2343.2	2.2%			
ASTRAL	59,89,950	-4.5%	1508	1.4%			

Long Unwinding (Open Interest Lower + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
ICICIGI	55,66,275	-4.0%	1954.8	-1.0%			
M&MFIN	2,33,15,040	-3.7%	261.95	-1.3%			
NIFTYNXT50	22,725	-3.1%	68759	-0.3%			
MPHASIS	47,83,900	-2.9%	2846.6	-1.2%			
INDIANB	67,47,000	-2.2%	638.75	-0.8%			

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

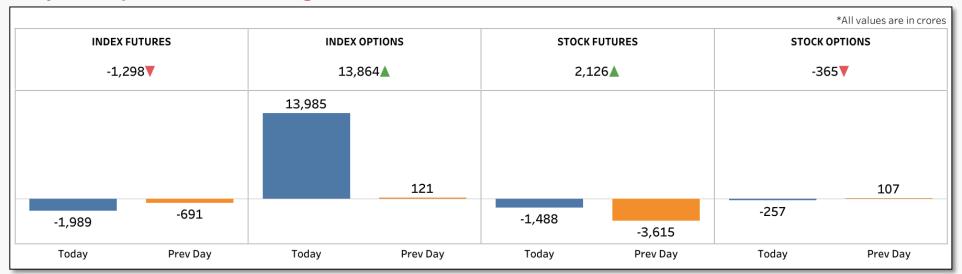


Open Interest Trends by Participant

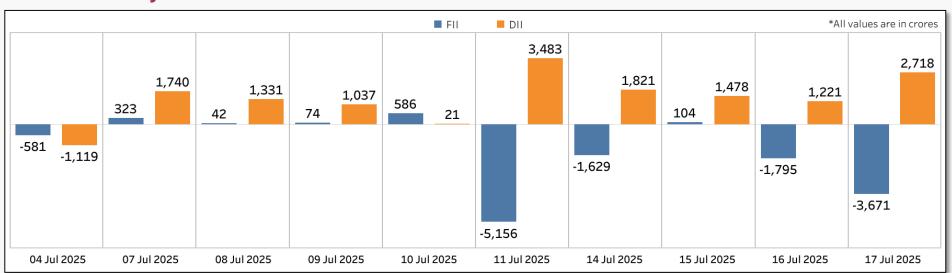




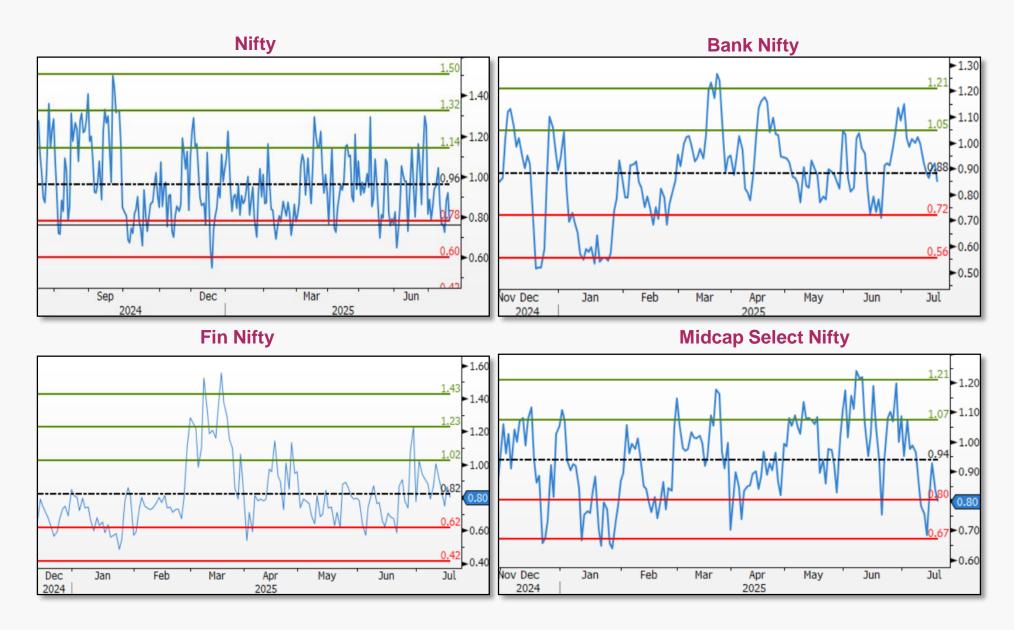
Daily Net Open Interest Change



DII and FII Daily Cash Market Flows



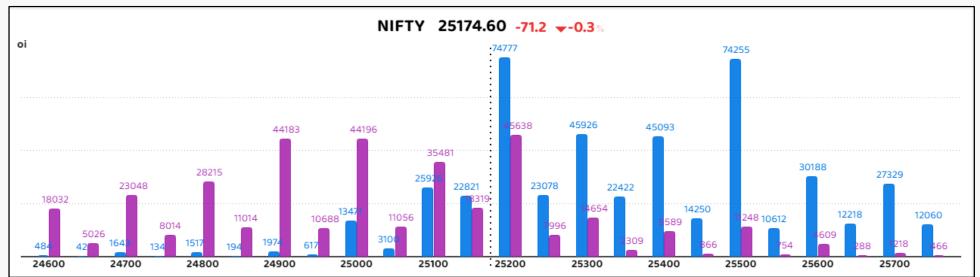




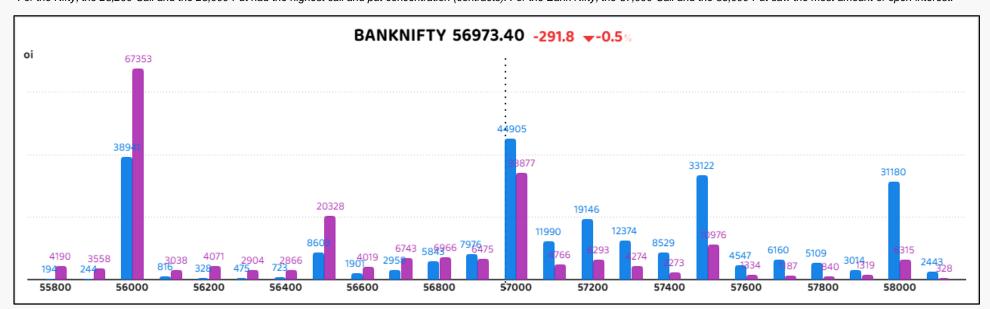


Positioning Stack by Strike (Nifty Current Week Expiry & BankNifty Monthly Expiry)





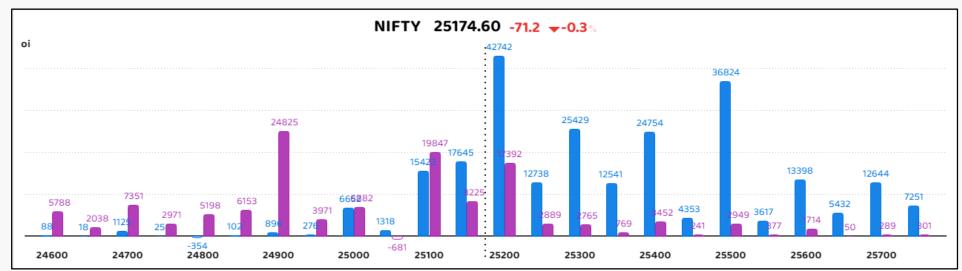
For the Nifty, the 25,200 Call and the 25,000 Put had the highest call and put concentration (contracts). For the Bank Nifty, the 57,000 Call and the 56,000 Put saw the most amount of open interest.



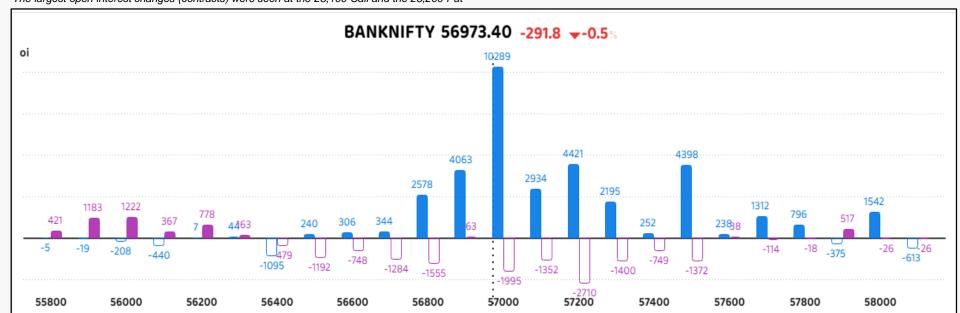


Open Interest Change (Nifty Current Week Expiry & BankNifty Monthly Expiry)





The largest open interest changes (contracts) were seen at the 25,100 Call and the 25,200 Put





Stocks with High IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
UNO MINDA LTD	1116.8	-0.2	43.6	43.6	30.4	100.0
BLUE STAR LTD	1882.6	1.2	38.3	38.3	23.4	100.0
PIRAMAL PHARMA	216.88	0.9	40.0	40.1	31.0	98.5
BOSCH LTD	38645	0.4	32.1	34.9	3.3	91.1
KAYNES TECHNOLOGY	5953.5	-0.4	45.1	49.4	32.2	74.9

Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
AVENUE SUPERMART	4055.9	-0.7	23.3	62.3	23.3	0.0
VARUN BEVERAGES	490.15	2.1	24.8	51.1	24.5	0.9
HDFC LIFE INSURANCE	751.8	-0.5	20.8	80.6	19.5	2.1
DELHIVERY LTD	425.3	1.0	30.3	58.6	29.3	3.2
FED BANK LTD	212.59	-1.0	26.3	130.9	22.0	4.0



Stocks With High IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
UNO MINDA LTD	1116.8	-0.2	43.6	43.6	30.4	100.0
BLUE STAR LTD	1882.6	1.2	38.3	38.3	23.4	100.0
PIRAMAL PHARMA	216.88	0.9	40.0	40.1	31.0	99.6
BOSCH LTD	38645	0.4	32.1	34.9	3.3	98.6
KAYNES TECHNOLOGY	5953.5	-0.4	45.1	49.4	32.2	97.8

Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
AVENUE SUPERMART	4055.9	-0.7	23.3	62.3	23.3	0.0
VEDANTA LTD	444.35	-0.7	24.7	57.4	15.1	0.8
VARUN BEVERAGES	490.15	2.1	24.8	51.1	24.5	0.9
PETRONET LNG LTD	310.9	0.1	19.8	50.4	17.4	1.6
FSN E-COMMERCE	217.47	0.8	28.0	51.1	22.8	1.7



Stocks With High Call Volume To Put Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
ASTRAL LTD	1505.1	0.8	22148	3499	6.3
MAHANAGAR GAS LTD	1522.8	3.0	19948	3549	5.6
TORRENT PHARMA	3504.6	1.3	21913	4279	5.1
IRCTC	774.75	-0.2	6150	1208	5.1
PHOENIX MILLS	1502.4	1.5	6204	1234	5.0

Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
MPHASIS LTD	2844	-1.1	1188	1803	1.5
MAX FINANCIAL	1537.6	-2.0	9875	14719	1.5
APL APOLLO TUBES	1694.8	-1.2	2905	3506	1.2
TATA ELXSI LTD	6196.5	-1.8	9278	9015	1.0
LAURUS LABS LTD	821.5	-0.1	4439	4213	0.9



Call Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
BOSCH LTD	38645	0.4	19624	19624	100.0
PATANJALI FOODS	1909.3	2.7	14594	14594	100.0
KAYNES TECHNOLOGY	5953.5	-0.4	6152	6152	100.0
BLUE STAR LTD	1873.6	1.2	4628	4628	100.0
TRENT LTD	5417.5	0.7	86531	89417	96.8

Put Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
TRENT LTD	5417.5	0.7	35330	35330	100.0
PATANJALI FOODS	1909.3	2.7	8928	8928	100.0
PHOENIX MILLS	1502.4	1.5	2335	2335	100.0
SONA BLW PRECISION	486	6.8	4468	4468	100.0
BLUE STAR LTD	1882.6	1.2	5062	5062	100.0



Call Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
SONA BLW PRECISION	486.0	6.8	126034	126034	100.0

Put Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
1	NO STOCK OPTION ME	T THE CONDITI	ON MENTIONED IN	THE FOOTNOTE	



Call Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
ICICI LOMBARD	1948.9	-1.1	11108	3983	2.8
TECH MAHINDRA LTD	1563.7	-2.7	24245	8992	2.7
PATANJALI FOODS	1909.3	2.7	14594	5814	2.5
HDFC ASSET MANAGEMENT	5510	2.9	14192	5937	2.4
HCL TECH LTD	1543.9	-1.2	52981	22538	2.4

Put Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
PATANJALI FOODS	1909.3	2.7	8928	3374	2.6
HDFC ASSET MANAGEMENT	5510	2.9	8220	3176	2.6
PIRAMAL ENTERPRISES	1339.3	1.9	4923	2252	2.2
BOSCH LTD	38645	0.4	11220	5205	2.2
SONA BLW PRECISION	486	6.8	4468	2269	2.0



Call Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
SONA BLW PRECISION	486	6.8	126034	9510	13.3
BALKRISHNA INDS	2742.1	3.4	53629	7248	7.4
HDFC ASSET MANAGEMENT	5510	2.9	101934	15436	6.6
TECH MAHINDRA LTD	1563.7	-2.7	85819	13984	6.1
PATANJALI FOODS	1909.3	2.7	93477	17904	5.2

Put Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
SONA BLW PRECISION	486	6.8	39150	3275	12.0
HDFC ASSET MANAGEMENT	5510	2.9	36972	5189	7.1
MAX FINANCIAL	1537.6	-2.0	14719	2207	6.7
ABB INDIA LTD	5637.5	1.6	42037	6409	6.6
PATANJALI FOODS	1909.3	2.7	33664	5595	6.0



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	2700	1553100	3.2%	2617	2700	1788300	3.2%	ITC	420	9520000	-0.9%	424	420	5214400	-0.9%
ADANIPORTS	1500	1740400	3.3%	1453	1400	1224075	-3.6%	JIOFIN	330	12257600	3.7%	318	300	6147600	-5.7%
APOLLOHOSP	8000	249875	8.8%	7351	7000	169875	-4.8%	JSWSTEEL	1180	1335825	14.1%	1034	1000	741150	-3.3%
ASIANPAINT	2500	1829500	4.2%	2399	2400	424000	0.0%	KOTAKBANK	2200	985600	1.3%	2171	2100	823200	-3.3%
AXISBANK	1200	8325625	3.5%	1160	1200	1701250	3.5%	LT	3700	1586725	6.5%	3474	3500	620550	0.7%
BAJAJ-AUTO	9000	241875	8.0%	8330	8000	127950	-4.0%	M&M	3200	1297400	0.2%	3195	3200	480000	0.2%
BAJAJFINSV	2100	1325000	3.6%	2027	1980	445000	-2.3%	MARUTI	12800	570400	2.6%	12476	12500	81050	0.2%
BAJFINANCE	1000	2905500	8.3%	923	900	2391750	-2.5%	NESTLEIND	2500	471750	2.1%	2449	2400	197500	-2.0%
BEL	430	11596650	6.4%	404	400	6563550	-1.0%	NTPC	345	32715000	0.7%	343	345	5028000	0.7%
BHARTIARTL	2040	3201500	5.7%	1930	1900	879700	-1.5%	ONGC	250	20767500	2.5%	244	240	2342250	-1.6%
CIPLA	1600	924000	7.9%	1482	1340	393000	-9.6%	POWERGRID	300	6292800	1.1%	297	300	2342700	1.1%
COALINDIA	400	8891100	3.7%	386	400	3370950	3.7%	RELIANCE	1550	6522000	5.0%	1476	1500	2273000	1.6%
DRREDDY	1300	1673125	2.9%	1263	1100	797500	-12.9%	SBILIFE	1860	1510125	3.2%	1803	1800	310500	-0.2%
EICHERMOT	5800	272825	2.7%	5650	5800	117775	2.7%	SBIN	820	18094500	-1.1%	829	820	6678750	-1.1%
ETERNAL	290	7502950	11.7%	260	250	4510500	-3.7%	SHRIRAMFIN	700	2308350	5.2%	665	700	610500	5.2%
GRASIM	2900	259250	4.8%	2766	2800	130250	1.2%	SUNPHARMA	1720	2483250	1.0%	1703	1700	676200	-0.2%
HCLTECH	1700	2095450	10.1%	1544	1560	715400	1.0%	TATACONSUM	1230	942700	11.2%	1106	980	562650	-11.4%
HDFCBANK	2020	5468100	1.7%	1987	2000	2291300	0.7%	TATAMOTORS	700	7817600	2.7%	682	680	3779200	-0.2%
HDFCLIFE	820	3242800	9.1%	752	760	1091200	1.1%	TATASTEEL	170	21934000	6.3%	160	160	8646000	0.1%
HEROMOTOCO	4500	845250	1.3%	4444	4300	308100	-3.2%	TCS	3500	4078025	9.1%	3209	3200	1221675	-0.3%
HINDALCO	700	3700200	3.8%	675	670	1220800	-0.7%	TECHM	1600	2409600	2.3%	1564	1600	624600	2.3%
HINDUNILVR	2560	1116300	2.0%	2510	2400	762600	-4.4%	TITAN	3700	969150	7.8%	3433	3400	387100	-1.0%
ICICIBANK	1500	2734900	5.7%	1419	1400	1726200	-1.3%	TRENT	6000	1210300	10.8%	5418	5500	370200	1.5%
INDUSINDBK	900	3969700	4.0%	865	850	910700	-1.7%	ULTRACEMCO	13000	120600	4.0%	12495	12000	62600	-4.0%
INFY	1600	4275600	1.0%	1584	1600	1891200	1.0%	WIPRO	270	9171000	3.6%	261	260	5394000	-0.2%



- 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

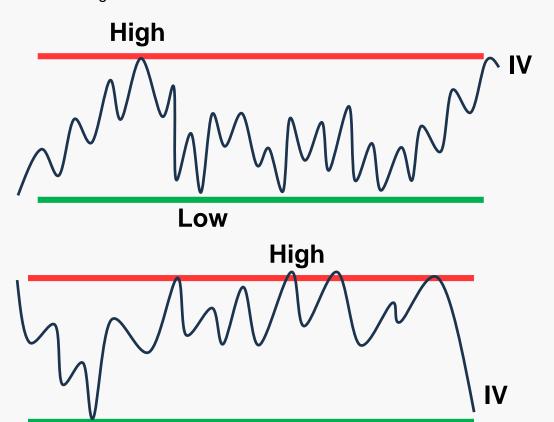


- Volume: Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- Open Interest: The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the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

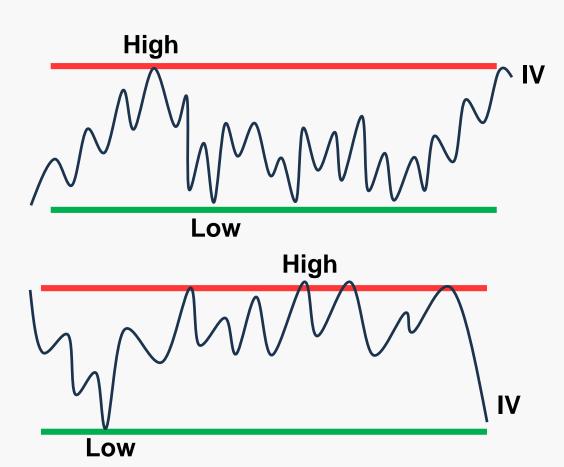


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

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.



Axis Securities Limited is a subsidiary company of Axis Bank Ltd. axis Bank Ltd.

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. Rajiv Keiriwal, 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.

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 assured, 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 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 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.



Disclaimer & Disclosures:

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 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