



Daily Derivatives Report



Nifty Futures

	Value	Change	
Most recent settlement	24,848	0.1%▲	
Open Interest (OI)	1,84,99,725	1.3%▲	
Change in OI (abs)	1,84,99,725	2,30,850▲	
Premium / Discount (Abs)	107	14▲	
Inference	Long Build Up		

Bank Nifty Futures

	Value	Change	
Most recent settlement	54,365	0.1%▲	
Open interest (OI)	30,86,860	1.2%▼	
Change in OI (abs)	30,86,860	35,910▼	
Premium / Discount (Abs)	250	32▲	
Inference	Short Covering		

Volatility Insights

	Value	Change
India VIX Index	10.78	0.07▼
Nifty ATM IV (%)	9.66	0.1 ▼
Bank Nifty ATM IV (%)	10.23	0.3▼
PCR (Nifty)	0.86	0.02 ▲
PCR (Bank Nifty)	0.89	0.01 ▼

The FII Long Ratio in Index Futures drop to 7.3 %, down from 8 % in the previous session.

Single Stock Futures Movers

Long Buildup (Open Interest Higher + Price Higher)						
Symbol	Open Interest	Chg (%)	Price	Chg (%)		
ASTRAL	73,99,675	7.4%	1462.6	2.5%		
NUVAMA	1,89,825	7.1%	6545	1.0%		
SAMMAANCAP	6,38,29,200	5.8%	138.6	0.7%		
PGEL	93,94,000	5.5%	556.65	0.2%		
MOTHERSON	17,61,48,300	5.0%	95.11	0.3%		

Short Buildup (Open Interest Higher + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
PERSISTENT	25,80,800	4.7%	5148.5	-3.0%			
SIEMENS	20,13,125	4.2%	3104.1	-2.1%			
CYIENT	28,92,550	4.0%	1172.4	-1.2%			
GODREJPROP	82,87,675	3.7%	1971.8	-1.8%			
GODREJCP	77,53,000	3.4%	1230.7	-1.2%			

Short Covering (Open Interest Lower + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
RBLBANK	7,99,84,600	-6.8%	276.15	3.6%			
BSE	1,22,23,875	-4.0%	2329.6	4.7%			
MUTHOOTFIN	31,28,675	-3.8%	2847.8	0.5%			
INDUSTOWER	8,95,40,700	-3.3%	338.95	4.2%			
LTF	4,14,69,828	-2.5%	231.68	1.3%			

Long Unwinding (Open Interest Lower + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
APOLLOHOSP	27,28,000	-2.8%	7842	-1.0%			
IGL	1,44,26,500	-1.9%	212.39	-1.8%			
FORTIS	1,01,47,075	-1.8%	950.3	-0.2%			
CROMPTON	4,05,48,600	-1.6%	328.4	-0.2%			
HINDUNILVR	1,43,98,200	-1.4%	2642.7	-1.1%			

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

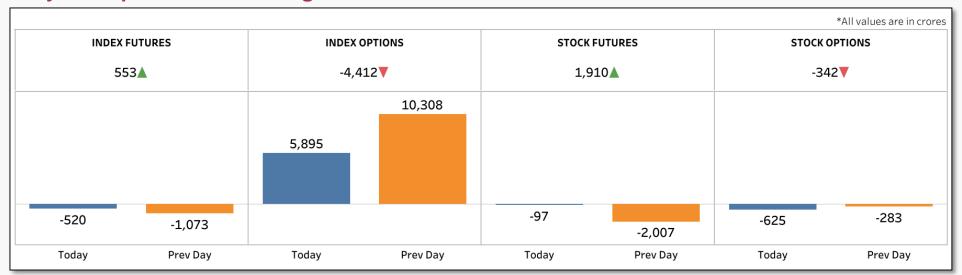


Open Interest Trends by Participant

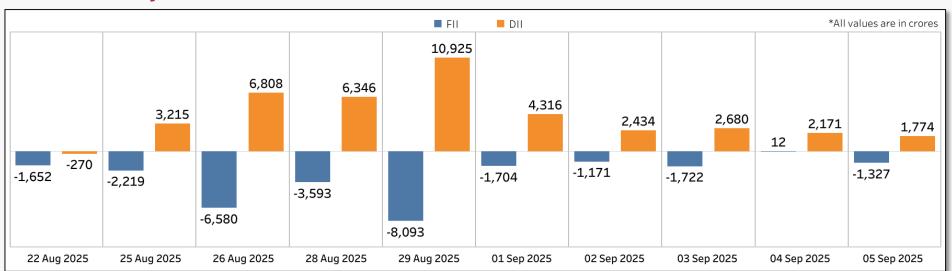




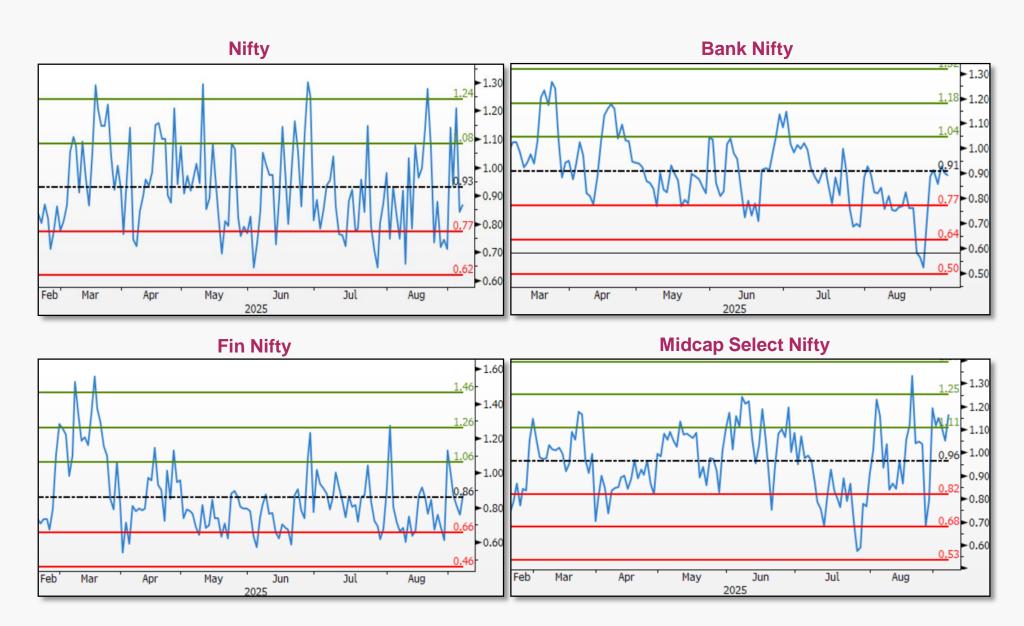
Daily Net Open Interest Change



DII and FII Daily Cash Market Flows



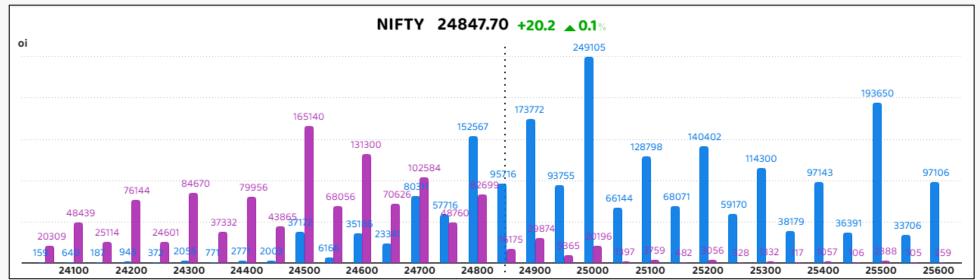




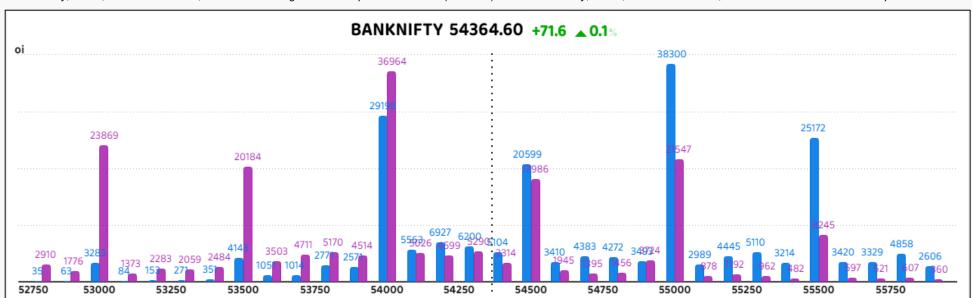


Positioning Stack by Strike (Nifty Current Week Expiry & BankNifty Monthly Expiry)





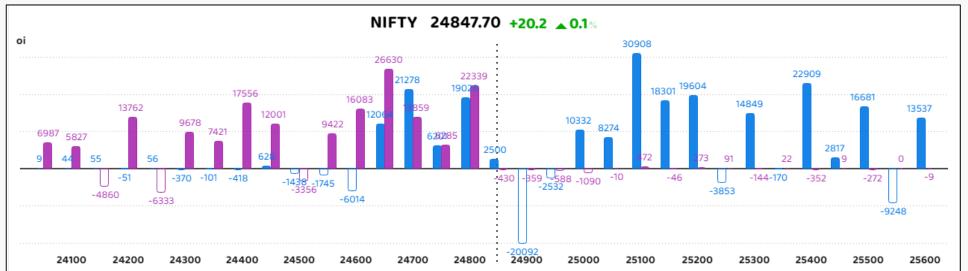
For the Nifty, the 25,000 Call and the 24,500 Put had the highest call and put concentration (contracts). For the Bank Nifty, the 55,000 Call and the 54,000 Put saw the most amount of open interest.



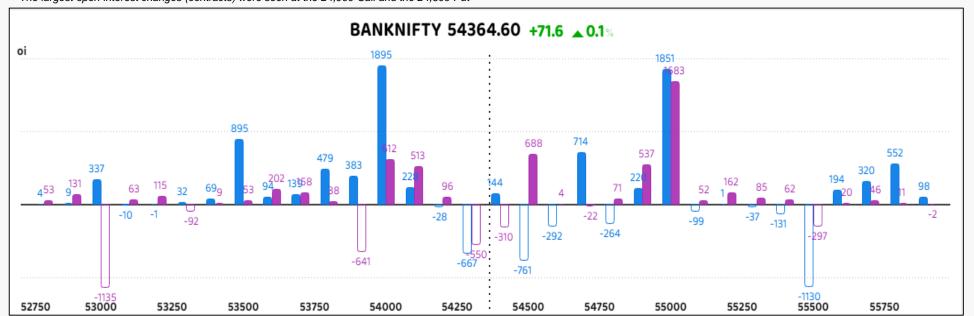


Open Interest Change (Nifty Current Week Expiry & BankNifty Monthly Expiry)





The largest open interest changes (contracts) were seen at the 24,900 Call and the 24,600 Put





Stocks with High IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
UNO MINDA LTD	1298.6	1.6	31.5	43.6	10.9	62.9
MARUTI SUZUKI	14895	1.6	17.5	29.9	0.4	57.9
BAJAJ AUTO LTD	9084.5	0.1	21.6	36.4	2.1	56.9
ASTRAL LTD	1454.9	2.4	24.2	40.4	2.9	56.9
TATA CONSUMER	1072.4	0.1	21.8	34.4	5.5	56.3

Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
BAJAJ FINANCE LTD	937.6	0.3	21.1	34.0	21.1	0.0
COAL INDIA LTD	392.65	0.3	1.9	38.8	1.9	0.0
MAX HEALTHCARE	1170	0.8	24.6	54.5	24.6	0.0
CHOLAMANDALAM	1490.9	2.0	23.4	47.2	23.4	0.0
SHRIRAM FINANCE	592.5	1.1	27.0	49.1	27.0	0.0



Stocks With High IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
PG ELECTROPLAST	554.15	-0.2	45.1	63.7	35.6	61.6
KFIN TECHNOLOGIES	1087.5	2.8	38.5	44.8	31.4	52.8
TATA ELXSI LTD	5451	0.4	30.5	51.9	20.0	49.2
PAGE INDUSTRIES	44285	-0.9	23.9	39.9	13.0	45.1
INFOSYS LTD	1444.6	-1.3	23.3	60.8	3.3	42.6

Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
BAJAJ FINANCE LTD	937.6	0.3	21.1	34.0	21.1	0.0
COAL INDIA LTD	392.65	0.3	1.9	38.8	1.9	0.0
MAX HEALTHCARE	1170	0.8	24.6	54.5	24.6	0.0
CHOLAMANDALAM	1490.9	2.0	23.4	47.2	23.4	0.0
SHRIRAM FINANCE	592.5	1.1	27.0	49.1	27.0	0.0



Stocks With High Call Volume To Put Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
KFIN TECHNOLOGIES	1087.5	2.8	6887	1173	5.9
VODAFONE IDEA LTD	7.2	9.4	38368	7569	5.1
ASHOK LEYLAND	130.8	2.2	26544	6280	4.2
GLENMARK PHARMA	2051.9	3.1	31818	8022	4.0
SUZLON ENERGY	57.9	0.8	5123	1328	3.9

Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
WIPRO LTD	244.97	-0.5	20103	26676	1.3
SHREE CEMENT	29945	0.3	1177	1380	1.2
DIVI LABS LTD	6133.5	-2.0	8223	9337	1.1
NMDC LTD	73.43	1.5	11090	12164	1.1
TATA CONSULTANCY	3095.7	-1.5	129303	132271	1.0



Call Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
PHOENIX MILLS	1501.1	1.1	3753	4058	92.5

Put Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Put Ol	Highest Put OI	Relative to Highest Put OI
RAIL VIKAS NIGAM	329.4	0.7	3967	4526	87.7
MAZAGON DOCK	2670.7	-0.4	8090	9557	84.7
PHOENIX MILLS	1518.1	1.1	2086	2552	81.7



Call Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
N	O STOCK OPTION MET	THE CONDITION	ON MENTIONED IN	THE FOOTNOTE	

Put Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Put Vol	Highest PV	Relative to Highest PV
N	IO STOCK OPTION ME	T THE CONDITION	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
HDFC LIFE	759.55	0.7	14955	8423	1.8
INTERGLOBE AVIATION	5670	-0.4	22707	13661	1.7
PHOENIX MILLS	1518.1	1.1	3753	2276	1.6
CG POWER	736.3	-0.5	7991	5053	1.6
TATA CONSUMER	1072.4	0.1	10234	6647	1.5

Put Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
CG POWER	736.3	-0.5	6057	3531	1.7
EICHER MOTORS	6580.5	2.4	13097	8188	1.6
DABUR INDIA LTD	546.7	-1.1	6836	4468	1.5
PHOENIX MILLS	1518.1	1.1	2086	1382	1.5
TATA STEEL LTD	167.68	0.5	17640	11866	1.5



Call Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
VODAFONE IDEA	7.23	9.4	38368	13172	2.9
GLENMARK PHARMA	2051.9	3.1	31818	12090	2.6
ZYDUS LIFESCIENCES	1013.85	0.2	20164	7864	2.6
KFIN TECHNOLOGIES	1087.5	2.8	6887	3030	2.3
VARUN BEVERAGES	469.65	-4.1	30561	13929	2.2

Put Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
VARUN BEVERAGES	469.65	-4.1	22458	6730	3.3
PERSISTENT SYSTEMS	5132	-3.1	27614	9545	2.9
NMDC LTD	74.53	1.5	12164	4229	2.9
HCL TECH LTD	1419	-1.7	41470	14438	2.9
TECH MAHINDRA LTD	1477.9	-1.5	20873	7424	2.8



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	CMP	PE Strike	PE OI	%Away
ADANIENT	2300	1016100	0.8%	2281	2600	924600	14.0%	ITC	410	10185600	0.7%	407	410	4220800	0.7%
ADANIPORTS	1400	1177050	5.9%	1322	1400	1121950	5.9%	JIOFIN	320	7924200	3.4%	309	320	3771750	3.4%
APOLLOHOSP	8000	162000	2.5%	7805	7900	61750	1.2%	JSWSTEEL	1100	1347300	2.5%	1073	960	525825	-10.5%
ASIANPAINT	2600	1017500	0.8%	2580	2500	329000	-3.1%	KOTAKBANK	2000	1234000	2.8%	1946	1960	773200	0.7%
AXISBANK	1100	3396875	4.2%	1056	1060	1520000	0.4%	LT	3600	1229900	1.3%	3554	3600	624050	1.3%
BAJAJ-AUTO	10000	177975	10.1%	9085	8500	82650	-6.4%	M&M	3600	979000	1.1%	3561	3500	878600	-1.7%
BAJAJFINSV	2060	636000	2.3%	2014	1900	529000	-5.7%	MARUTI	15000	413300	0.7%	14895	14000	299800	-6.0%
BAJFINANCE	1000	1605000	6.7%	938	900	1491750	-4.0%	NESTLEIND	1200	642000	-0.7%	1209	1200	384000	-0.7%
BEL	400	7791900	7.9%	371	370	4394700	-0.2%	NTPC	340	6180000	3.4%	329	330	2149500	0.4%
BHARTIARTL	2000	1273475	5.5%	1895	1900	894900	0.2%	ONGC	240	14159250	2.5%	234	235	3217500	0.4%
CIPLA	1600	1365750	3.0%	1553	1440	267375	-7.3%	POWERGRID	300	3169200	5.1%	285	280	1858200	-1.9%
COALINDIA	400	4310550	1.9%	393	450	2155950	14.6%	RELIANCE	1400	12230500	1.8%	1375	1400	5988000	1.8%
DRREDDY	1300	2505625	2.5%	1268	1100	561875	-13.3%	SBILIFE	1900	496500	5.2%	1805	1800	238875	-0.3%
EICHERMOT	7000	262325	6.4%	6581	6000	371700	-8.8%	SBIN	820	5277000	1.7%	807	800	3899250	-0.8%
ETERNAL	310	12222000	-5.8%	329	320	6899125	-2.8%	SHRIRAMFIN	600	1908225	1.3%	593	580	1112100	-2.1%
GRASIM	2900	232000	3.4%	2804	2600	127250	-7.3%	SUNPHARMA	1600	1234450	0.4%	1594	1500	950250	-5.9%
HCLTECH	1500	1723050	5.7%	1419	1400	501900	-1.3%	TATACONSUM	1100	1423950	2.6%	1072	970	431200	-9.5%
HDFCBANK	1000	8005800	3.8%	963	950	3284600	-1.4%	TATAMOTORS	700	6804800	1.2%	692	700	3039200	1.2%
HDFCLIFE	800	3878600	5.3%	760	760	771100	0.1%	TATASTEEL	170	14481500	1.4%	168	160	18260000	-4.6%
HEROMOTOCO	5400	361500	0.7%	5363	5000	237900	-6.8%	TCS	3200	1879500	5.0%	3048	3000	947100	-1.6%
HINDALCO	750	1709400	0.8%	744	700	1411200	-5.9%	TECHM	1580	1363200	6.9%	1478	1480	1323600	0.1%
HINDUNILVR	2700	1617900	2.5%	2633	2600	354900	-1.3%	TITAN	3700	338800	0.9%	3665	3600	255150	-1.8%
ICICIBANK	1400	2511600	-0.2%	1403	1400	2172800	-0.2%	TRENT	5600	500800	1.3%	5529	5400	157600	-2.3%
INDUSINDBK	800	1507800	5.7%	757	720	1001000	-4.9%	ULTRACEMCO	13000	110500	3.2%	12601	12000	44050	-4.8%
INFY	1500	2857200	3.8%	1445	1440	2062000	-0.3%	WIPRO	260	6498000	6.7%	244	240	3366000	-1.5%



- 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

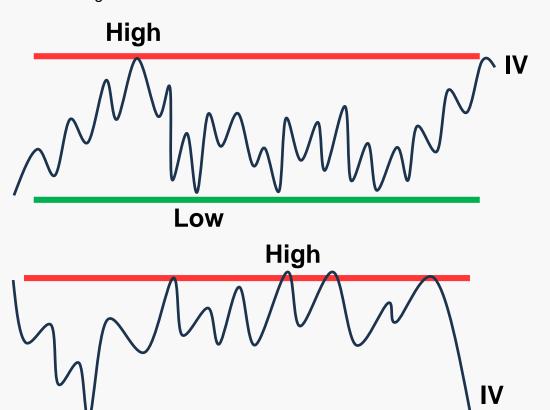


- Volume: Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- Open Interest: The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the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

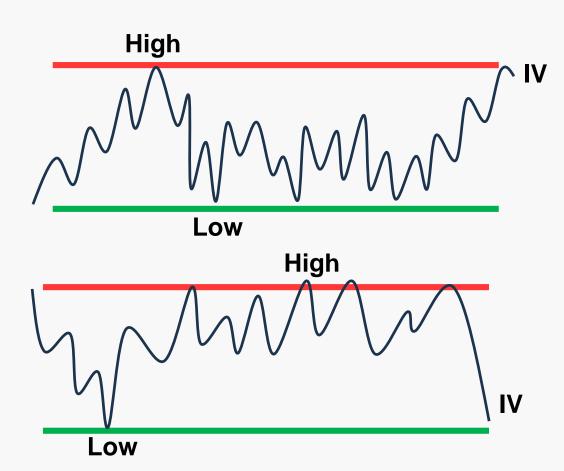


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

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 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