



Daily Derivatives Report



Nifty Futures

	Value	Change	
Most recent settlement	24,683	0.1%▼	
Open Interest (OI)	1,27,91,275	0.1%▲	
Change in OI (abs)	1,27,91,275	16,925▲	
Premium / Discount (Abs)	73	3▼	
Inference	Short Build Up		

Bank Nifty Futures

	Value	Change	
Most recent settlement	53,700	0.3%▲	
Open interest (OI)	27,89,910	0.3%▲	
Change in OI (abs)	27,89,910	9,015▲	
Premium / Discount (Abs)	122	1▼	
Inference	Long Build Up		

Volatility Insights

	,	
	Value	Change
India VIX Index	13.78	0.3▼
Nifty ATM IV (%)	15.66	0.6▼
Bank Nifty ATM IV (%)	15.65	0.5▼
PCR (Nifty)	0.85	0.05▼
PCR (Bank Nifty)	1.02	0.04 ▲

Single Stock Futures Movers

Long Buildup (Open Interest Higher + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
NYKAA	2,27,53,350	30.7%	173.28	3.9%			
CYIENT	6,67,800	30.3%	2075.45	3.2%			
KEI	1,69,050	22.8%	4564.7	1.2%			
GLENMARK	40,28,650	21.9%	1549.45	2.1%			
POLICYBZR	20,16,300	21.3%	2178.6	1.8%			

Short Buildup (Open Interest Higher + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
IRB	3,14,57,250	75.7%	58.77	-1.4%			
LICI	58,51,200	17.9%	950.5	-4.0%			
HFCL	2,58,00,550	16.5%	127.43	-2.8%			
CAMS	4,58,375	15.6%	5233.85	-1.2%			
ATGL	19,34,400	13.7%	716.75	-1.6%			

Short Covering (Open Interest Lower + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
CANFINHOME	55,18,500	-12.6%	821.85	2.0%			
IEX	4,41,03,750	-5.0%	186.47	1.0%			
PVRINOX	51,14,769	-3.8%	1494.1	0.7%			
MANAPPURAM	6,42,39,000	-3.8%	175.73	2.8%			
DEEPAKNTR	20,74,800	-3.7%	2737.05	2.1%			

Long Unwinding (Open Interest Lower + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
POLYCAB	18,36,250	-4.7%	7450.6	-0.1%			
BHARTIARTL	5,18,10,625	-4.1%	1580.7	-1.5%			
BHARATFORG	1,05,63,000	-3.8%	1363.1	-0.2%			
HDFCAMC	34,73,250	-3.5%	4462.7	-0.3%			
BOSCHLTD	2,48,675	-3.4%	35953	-0.1%			

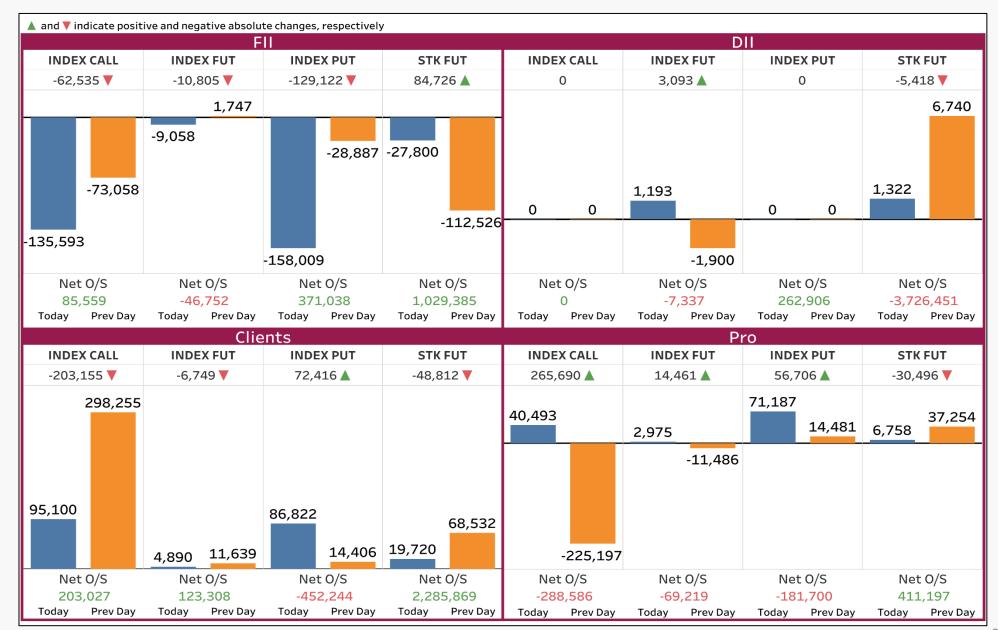
For an explanation of all the contents in this report, kindly click on the hyperlink at the top right which will take you to the end-of-report appendix

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

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

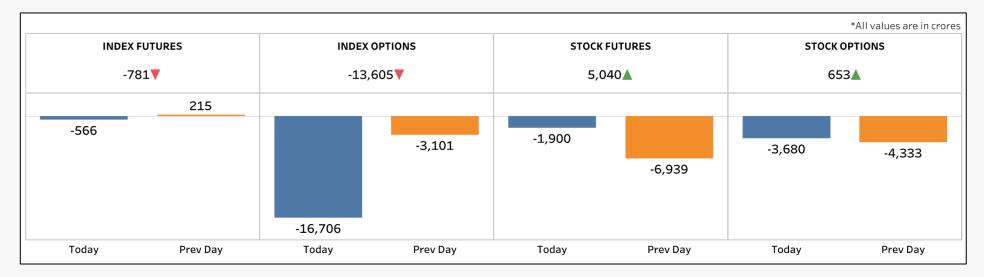


Open Interest Data by Participant

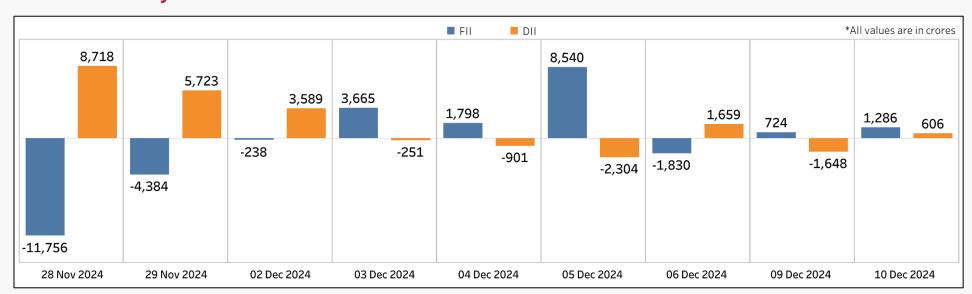




Daily Net Open Interest Change



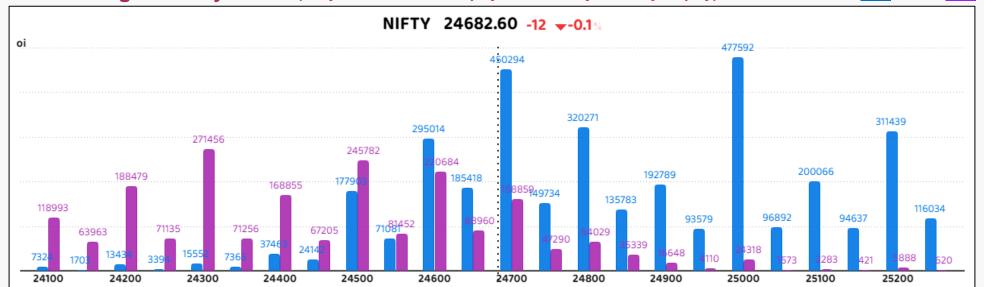
DII and FII Daily Cash Market Flows



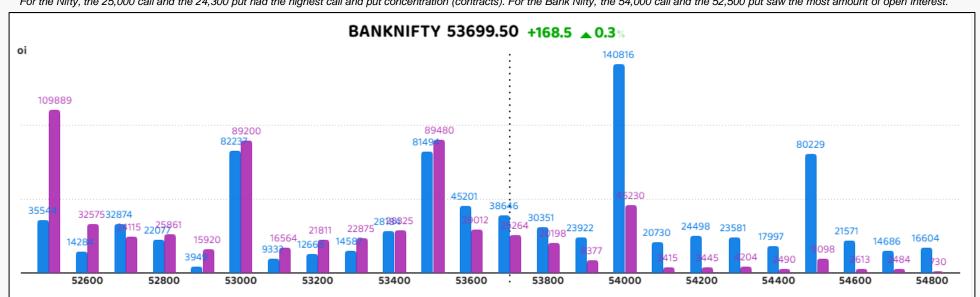








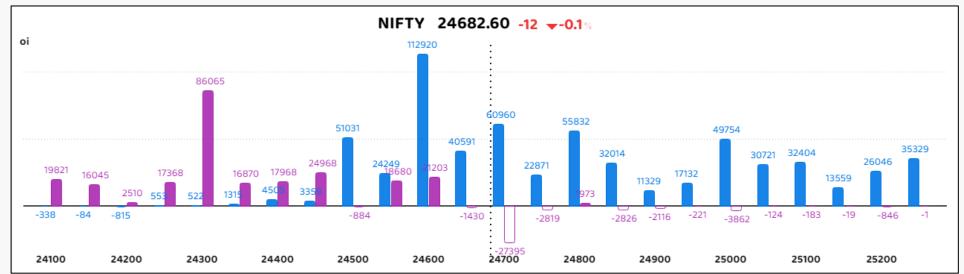
For the Nifty, the 25,000 call and the 24,300 put had the highest call and put concentration (contracts). For the Bank Nifty, the 54,000 call and the 52,500 put saw the most amount of open interest.



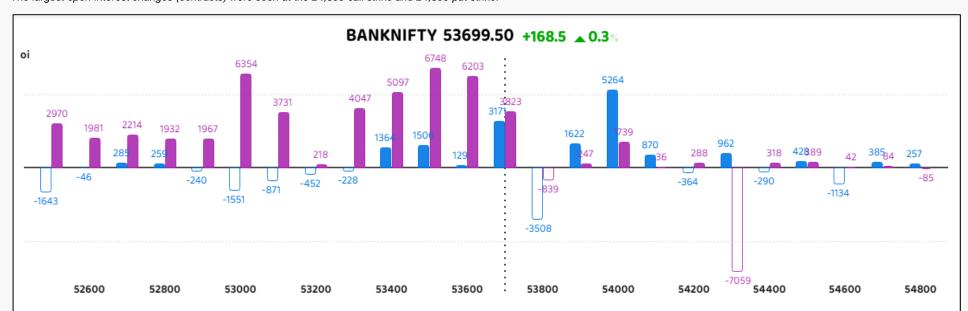






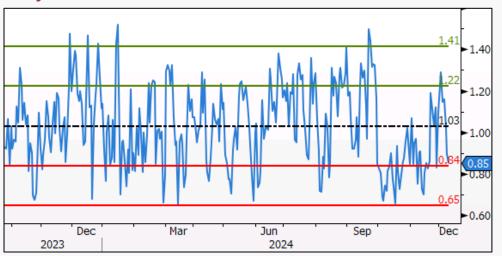


The largest open interest changes (contracts) were seen at the 24,600 call strike and 24,300 put strike.

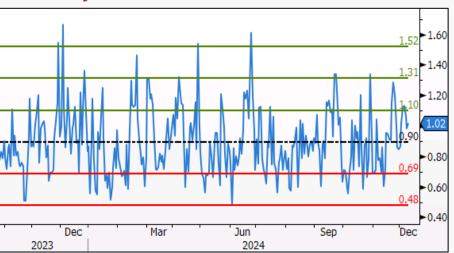




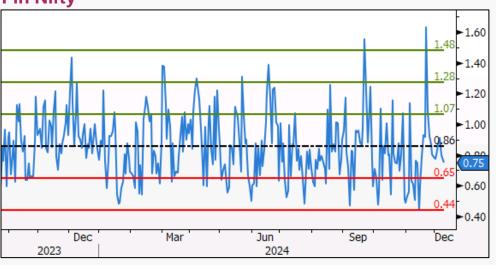
Nifty



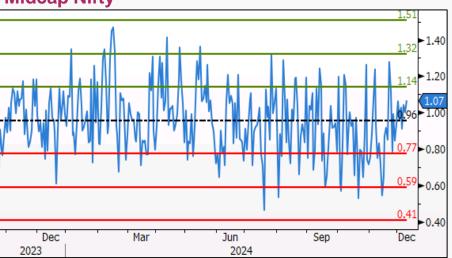
Bank Nifty



Fin Nifty

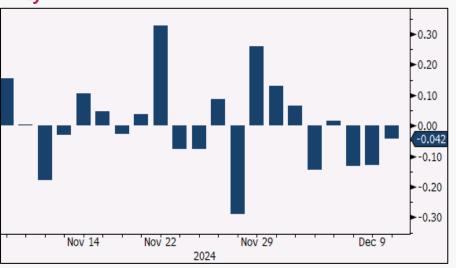


Midcap Nifty

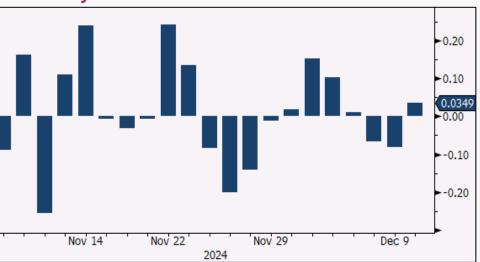




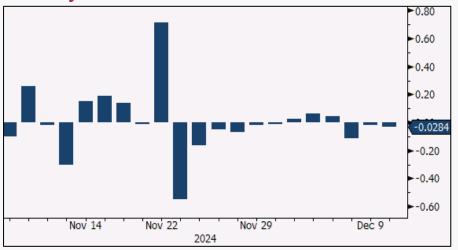
Nifty



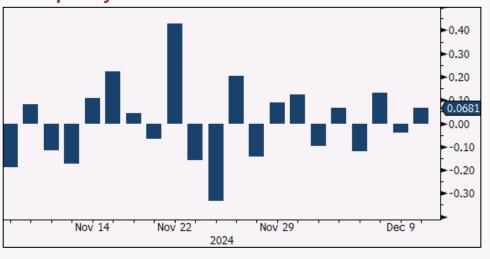
Bank Nifty



Fin Nifty



Midcap Nifty





Stocks with High IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
MARUTI SUZUKI IN	11198.2	-0.7	23.2	33.7	0.4	68.4
DIXON TECHNOLOGI	17514.1	1.0	34.7	51.3	1.8	66.4
KOTAK MAHINDRA	1794.7	0.5	19.4	28.7	1.9	65.3
BAJAJ AUTO LTD	9013.3	-0.7	26.8	40.6	2.1	64.0
COLGATE PALMOLIV	2849.2	1.6	23.4	31.7	9.5	62.6

Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
PIDILITE INDS	3213.2	1.7	13.3	33.7	13.3	0.0
REC LTD	570.2	1.1	30.1	86.9	30.1	0.0
PVR INOX LTD	1492.3	0.8	19.5	43.7	19.5	0.0
METROPOLIS HEALT	2220.9	1.4	20.6	54.6	20.6	0.0
POWER FINANCE	517.2	0.3	32.3	72.9	31.7	1.4



Stocks With High IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
GRANULES INDIA	582.8	0.5	37.4	54.5	11.0	81.9
MAHANAGAR GAS LT	1287.8	0.7	35.8	48.5	23.3	73.4
SBI LIFE INSURAN	1461.9	-0.5	25.8	35.8	13.4	70.3
INDUSIND BANK	984.3	0.2	27.3	60.4	12.4	69.6
HINDUSTAN UNILEV	2397.4	-0.1	19.5	25.0	13.9	67.9

Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
PIDILITE INDS	3213.2	1.7	13.3	33.7	13.3	0.0
REC LTD	570.2	1.1	30.1	86.9	30.1	0.0
PVR INOX LTD	1492.3	0.8	19.5	43.7	19.5	0.0
METROPOLIS HEALT	2220.9	1.4	20.6	54.6	20.6	0.0
POWER FINANCE	517.2	0.3	32.3	72.9	31.7	0.7



Stocks With High Call Volume To Put Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
ATUL LTD	7497.9	2.9	6166	920	6.7
INDIAMART INTERM	2377.4	0.26	8378	1305	6.4
L&T TECHNOLOGY S	5369	0.37	17759	2795	6.3
PI INDUSTRIES	4114.3	1.3	5940	1081	5.5
ASTRAL LTD	1847.2	-0.18	7282	1647	4.4

Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol	
AMBUJA CEMENTS	573.5	0.39	9223	8985	1	
HDFC BANK LTD	1868.1	-0.11	67779	54365	0.8	
ICICI BANK LTD	1330.5	0.62	35933	28509	0.8	
LAURUS LABS LTD	571.9	0	5027	3923	0.8	
COFORGE LTD	9008.6	1	23286	18056	0.8	



Call Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Call OI Diff
GODREJ CONSUMER	1133.9	0.5	16217	16787	97
COLGATE PALMOLIV	2849.2	1.6	20370	21309	96
HDFC LIFE INSURA	633.3	-1.3	24168	27837	87
COAL INDIA LTD	414	0.0	32419	37562	86

Put Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Put OI	Highest Put OI	Put OI Diff
COLGATE PALMOLIV	2849.2	1.6	8032	8032	100
DIXON TECHNOLOGI	17514	1	38761	38761	100
INDUS TOWERS LTD	360	-0.6	13065	13630	96
COAL INDIA LTD	414	0.0	21521	22574	95
ULTRATECH CEMENT	11746	-0.6	13889	15020	92



Call Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	CV Diff
CHOLAMANDALAM IN	1336.3	4.2	49830	63882	78
METROPOLIS HEALT	2220.9	1.39	39877	70952	56.2
SYNGENE INTERNAT	881.05	1.5	15913	28895	55.1
SHRIRAM FINANCE	3186.5	2.6	53955	98520	54.8
GLENMARK PHARMA	1542.7	1.9	29579	70977	41.7

Put Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	CV Diff
CIFC IS	1336.3	4.2	17775	30201	58.9
METROHL IS	2220.9	1.39	11834	21717	54.5
OFSS IS	12245.2	-2.7	46822	87476	53.5
NMDC IS	244	1.0	12591	30736	41
MCX IS	6676.1	-2.5	19375	53639	36.1



Call Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
METROPOLIS HEALT	2220.9	1.39	39877	6803.75	5.9
LTIMINDTREE LTD	6579.3	3.0	65654	12852.05	5.1
ATUL LTD	7497.9	2.9	6166	1355.4	4.5
CHOLAMANDALAM IN	1336.3	4.2	49830	12425.95	4
JINDAL STEEL & P	1002.3	3.6	86110	22337.4	3.9

Put Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
ORACLE FINANCIAL	12245.3	-2.7	46822	10360.95	4.5
METROHL IS	2220.9	1.4	11834	2818.95	4.2
LTIMINDTREE LTD	6579.3	3.0	20652	5933.4	3.5
JINDAL STEEL & P	1002.3	3.6	45810	13523.4	3.4
CHOLAMANDALAM IN	1336.3	4.2	17775	6063.55	2.9



Call Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
GODREJ CONSUMER	1133.9	0.5	16217	4240.053	3.8
METROPOLIS HEALT	2220.9	1.4	5433	1899.526	2.9
SYNGENE INTERNAT	881	1.5	4673	2375.263	2
ORACLE FINANCIAL	12245	-2.7	12044	7154.789	1.7
TATA CONSUMER PR	926.8	-0.8	19438	11759.16	1.7

Put Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
GODREJ CONSUMER	1133.9	0.5	8597	2416.26	3.6
METROPOLIS HEALT	2220.9	1.4	2630	957.053	2.7
SYNGENE INTERNAT	881	1.5	2325	1310.26	1.8
CHOLAMANDALAM IN	1336.3	4.2	5090	3121.63	1.6
TATA CONSUMER PR	926.9	-0.8	10416	6530.32	1.6



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	СМР	PE Strike	PE OI	% Away	Stock Name	CE Strike	CE OI	% Away	СМР	PE Strike	PE OI	% Away
ADANIENT	3000	1842600	21.6%	2467	3000	2090100	21.6%	INFY	1960	2630000	0.6%	1949	1900	1544800	-2.5%
ADANIPORTS	1300	3192800	4.1%	1249	1200	1508800	-3.9%	ITC	500	9148800	7.4%	465	470	3211200	1.0%
APOLLOHOSP	7500	132125	3.3%	7258	7000	140125	-3.6%	JSWSTEEL	1020	1018575	0.7%	1013	1000	672975	-1.3%
ASIANPAINT	2500	2001400	4.7%	2389	2400	805600	0.5%	KOTAKBANK	1900	2368400	5.9%	1795	1800	984000	0.3%
AXISBANK	1200	4786250	4.0%	1154	1140	1396875	-1.2%	LT	4000	1047150	2.0%	3923	3800	534600	-3.1%
BAJAJ-AUTO	10000	561825	10.9%	9013	9000	219975	-0.1%	LTIM	6600	180000	0.3%	6579	6100	76650	-7.3%
BAJAJFINSV	1700	882000	2.2%	1663	1600	532000	-3.8%	M&M	3100	842275	1.1%	3067	3000	515025	-2.2%
BAJFINANCE	7000	682250	0.9%	6936	6800	399375	-2.0%	MARUTI	11500	364450	2.7%	11198	11000	142550	-1.8%
BHARTIARTL	1600	3245200	1.4%	1579	1500	1038350	-5.0%	NESTLEIND	2300	641000	3.9%	2215	2200	477000	-0.7%
BPCL	310	4590000	2.1%	304	290	2107800	-4.4%	NTPC	370	15126000	0.2%	369	370	3150000	0.2%
BRITANNIA	5000	417700	4.4%	4787	4700	104500	-1.8%	ONGC	264	11548075	2.8%	257	260	2450525	1.2%
CIPLA	1500	1525550	3.1%	1455	1480	370500	1.7%	POWERGRID	350	6928200	6.7%	328	320	1742400	-2.4%
COALINDIA	420	5593350	1.4%	414	420	2270100	1.4%	RELIANCE	1300	11929500	1.2%	1285	1300	9442000	1.2%
DIVISLAB	6200	306100	4.5%	5933	6000	147000	1.1%	SBILIFE	1500	1527750	2.6%	1462	1400	433875	-4.2%
DRREDDY	1300	681875	4.8%	1240	1200	327500	-3.3%	SBIN	900	7060500	3.7%	868	800	5404500	-7.8%
EICHERMOT	5000	305550	3.9%	4813	4500	201600	-6.5%	SHRIRAMFIN	3200	329700	0.4%	3187	3200	135900	0.4%
GRASIM	2700	374500	1.7%	2655	2600	138250	-2.1%	SUNPHARMA	1820	2146900	0.6%	1810	1800	396550	-0.5%
HCLTECH	1920	966000	-0.8%	1936	1920	562450	-0.8%	TATACONSUM	950	1154592	2.5%	927	940	634752	1.4%
HDFCBANK	1900	5531350	1.7%	1868	1800	4770150	-3.6%	TATAMOTORS	800	8923200	0.0%	800	800	4305950	0.0%
HDFCLIFE	700	4188800	10.5%	633	650	1295800	2.6%	TATASTEEL	160	27879500	6.5%	150	140	14696000	-6.9%
HEROMOTOCO	4800	665550	4.6%	4588	4600	331050	0.3%	TCS	4500	741125	1.5%	4433	4200	756350	-5.2%
HINDALCO	700	4190200	4.6%	669	650	1653400	-2.8%	TECHM	1800	1126200	2.1%	1764	1600	706200	-9.3%
HINDUNILVR	2500	1734300	4.3%	2397	2400	585900	0.1%	TITAN	3500	402675	0.7%	3476	3300	351050	-5.1%
ICICIBANK	1340	5031600	0.7%	1330	1300	2881200	-2.3%	ULTRACEMCO	12000	97550	2.2%	11746	11000	136000	-6.3%
INDUSINDBK	1000	4893000	1.6%	984	1000	2368500	1.6%	WIPRO	310	5418000	0.6%	308	300	3930000	-2.6%



- Open interest goes up when both the buyer and the seller are opening a new position
- Open interest remains the same when one party is opening a new position and the other is liquidating an
 existing position
- Open interest falls when both the buyer and the seller are liquidating existing positions
- Long build up: Prices increase with a rise in open interest and is considered bullish
- Long liquidation: Existing longs liquidate their positions and open interest also falls; moderately bearish
- Short build up: Prices drop with a rise in open interest, and this is considered bearish
- Short covering: Existing shorts cover their positions, and open interest drop; this is moderately bullish
- PCR goes up when 1) both put and call open interest go up, but puts rise faster, or 2) both put and call open interest go down, but calls fall faster or, 3) when puts go up and calls go down
- Generally, a **rising PCR** is **bearish**, but when it reaches an extremely **high** reading, it means people are likely to take contrarian bets, i.e., they are likely to turn **bullish**
- PCR goes down when 1) both put and call open interest go up, but calls rise faster, or 2) both put and call
 open interest go down, but puts fall faster or, 3) when puts go down and calls go up
- Typically, a falling PCR is bullish, but when it reaches an extremely low reading, it means people are likely
 to take contrarian bets, i.e., they are likely to turn bearish

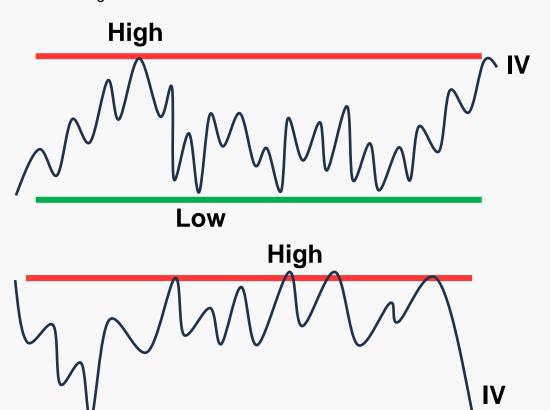


- Volume: Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- Open Interest: The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the open interest for the day is 20 contracts
- Total open interest: Total of all open positions for all available expirations. It is the sum of all outstanding long positions OR short positions. This is because the total number of long positions must equal the total number of short positions
- **Premium:** When the front-month futures are more expensive than the cash market price. For instance, if Nifty futures (first month contract) are at 25,500 when the cash Nifty is at 25,450, the premium is 50 points
- **Discount:** When the front-month futures are cheaper than the cash market price. For instance, if Tata Steel futures (first month contract) are at 160 when the stock is trading at 162 in the cash market, the discount is 2 points
- At-the-Money (ATM): When the strike price of an option is the same as the spot price, the option is called an ATM option
- Implied Volatility (IV): Measure of how much a stock is expected to move in the future (in either direction)
- Put-Call Ratio (PCR): Ratio of total number of outstanding puts to total number of calls outstanding. If this ratio is more (less) than one, it means more puts (calls) are open relative to calls (puts)
- Derivatives market participants: Foreign Institutional Investors (FIIs), Domestic Institutional Investors (DIIs), proprietary traders and Retail investors
- Derivatives Instruments: Index options, index futures, stock options, stock futures
- Expirations covered: Index options (weekly, monthly), stock options, stock futures and index futures (monthly)
- For pages 7 to 11, "Last px" refers to the closing price of the cash market ticker
- Source(s): <u>www.nseindia.com</u>, Bloomberg, MyFnO



Low

- Strike concentration: Visual representation of how many calls and puts are outstanding at each strike in the vicinity of the current underlying price. The strike with the highest call open interest is considered as resistance, while the put strike with the highest number of outstanding positions is considered as support
- Shifting concentration: Strikes with highest call and put concentration are dynamic in nature and keep changing as per movements in the markets
- Implied Volatility Rank (IVR): Measure of how expensive or cheap the IV of an ATM option is, relative to its 12-month history. The reading oscillates between 0 and 100

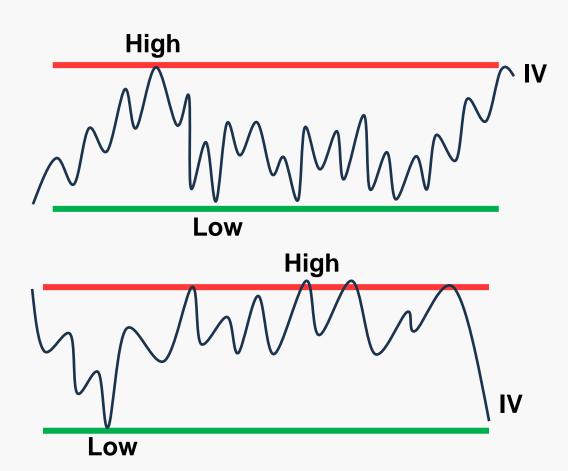


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

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



• Implied Volatility Percentile (IVP): Measures the number of days IV has been below the current IV in the last 252 trading days. The reading moves between 0 and 100.



In the chart to the left, one can see that the bulk of the time the IV has been below its current level. In this case, the IVP will be close to 100. An IVP of 100 means that 100% of the time IV has been below its current reading in the last one year.

Notice that IV has mostly traded at the high end of its one-year range, and there have been very few values below the current IV. In such a scenario, the IVP is going to be close to 0. An IVP of say, 5, means that IV has been below the current IV only 5% of the time in the last 252 trading sessions.



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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.

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