



Nifty Futures

	Value	Change	
Most recent settlement	25,960	0.4%▼	
Open Interest (OI)	1,81,34,690	2.6%▲	
Change in OI (abs)	1,81,34,690	4,72,845▲	
Premium / Discount (Abs)	121	15▼	
Inference	Short Build Up		

Bank Nifty Futures

	Value	Change	
Most recent settlement	59,528	0.5%▼	
Open interest (OI)	19,72,940	6.3%▲	
Change in OI (abs)	19,72,940	1,24,410▲	
Premium / Discount (Abs)	306	20▼	
Inference	Short Build Up		

Volatility Insights

	Value	Change
India VIX Index	10.91	0.04▼
Nifty ATM IV (%)	9.83	0.13 ▲
Bank Nifty ATM IV (%)	10.70	0.06 ▲
PCR (Nifty)	0.73	0.13▼
PCR (Bank Nifty)	0.82	0.07▼

The FII Long Ratio in Index Futures drop to 10.6 %, slide from 10.8 % in the previous session.

Single Stock Futures Movers

Long Buildup (Open Interest Higher + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
AUBANK	1,98,24,000	17.0%	993.35	2.0%			
NHPC	6,95,80,800	5.0%	77	0.4%			
COALINDIA	5,72,79,150	3.5%	383.2	0.8%			
HDFCLIFE	3,00,76,200	2.3%	772.5	1.0%			
ICICIPRULI	1,50,43,275	1.7%	645.6	3.0%			

Short Buildup (Open Interest Higher + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
BLUESTARCO	22,69,150	16.4%	1729.6	-0.7%			
KEI	11,69,000	6.5%	3946.5	-3.5%			
ADANIGREEN	2,32,82,400	5.3%	990.5	-1.6%			
PERSISTENT	22,10,200	5.1%	6061	-4.3%			
MCX	25,48,250	5.1%	9904	-4.6%			

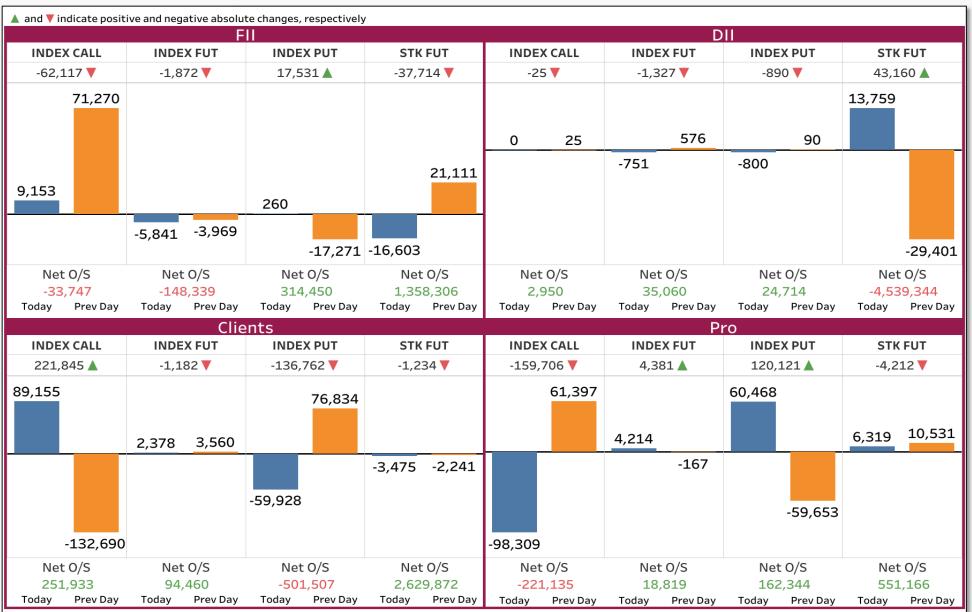
Short Covering (Open Interest Lower + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
HDFCAMC	47,51,100	-7.3%	2614.4	1.6%			
HINDZINC	3,49,07,600	-4.0%	513.5	4.0%			
SAMMAANCAP	10,19,35,800	-2.8%	143.2	0.9%			
CYIENT	35,50,025	-2.6%	1141.7	0.3%			
MANAPPURAM	4,22,94,000	-2.5%	278.65	0.9%			

Long Unwinding (Open Interest Lower + Price Lower)							
Symbol Open Interest Chg (%) Price Chg (%)							
BDL	44,73,225	-5.1%	1400	-2.2%			
POLICYBZR	65,43,950	-4.5%	1926.8	-1.8%			
CGPOWER	1,55,64,350	-4.3%	666.7	-0.4%			
INDIANB	1,15,94,000	-2.8%	786.3	-1.4%			
BRITANNIA	27,24,250	-2.7%	5844	-1.0%			

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

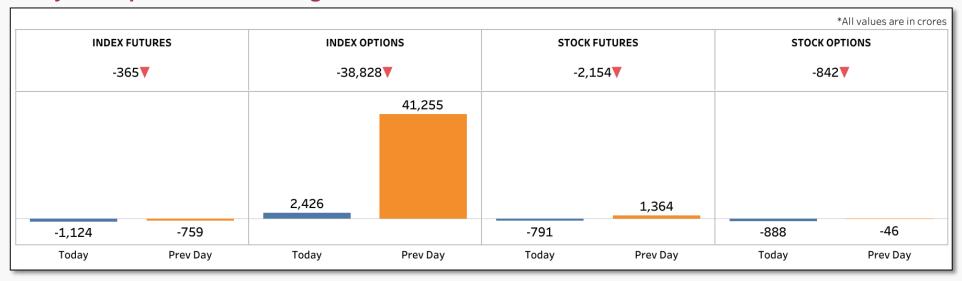


Open Interest Trends by Participant

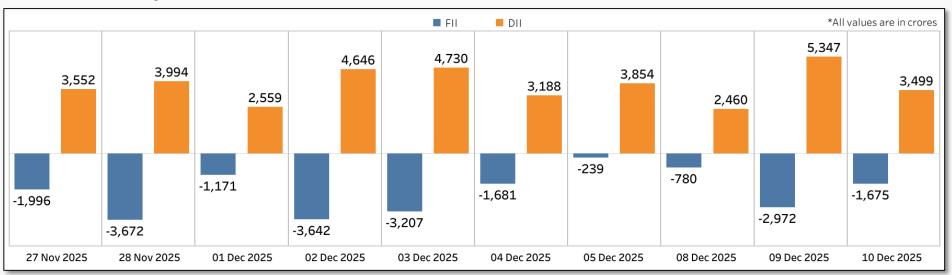




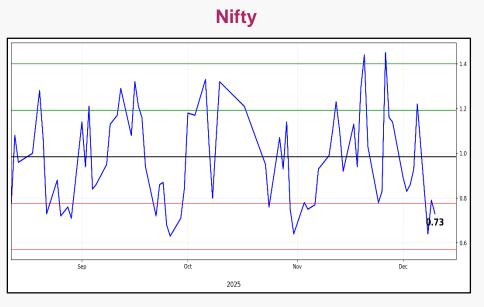
Daily Net Open Interest Change

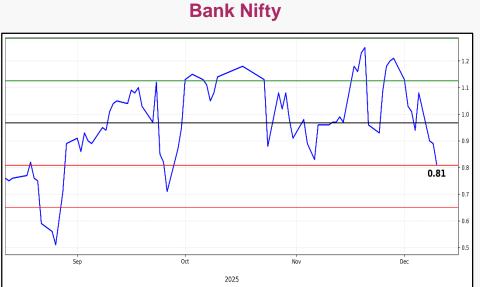


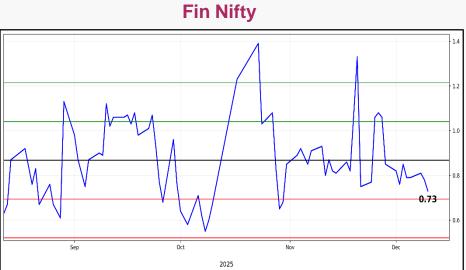
DII and FII Daily Cash Market Flows

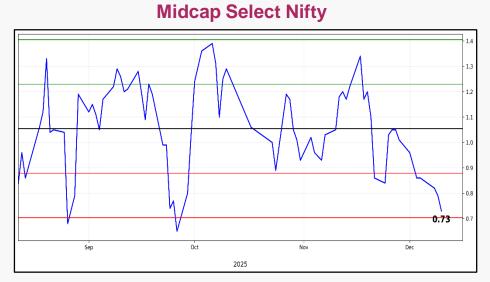








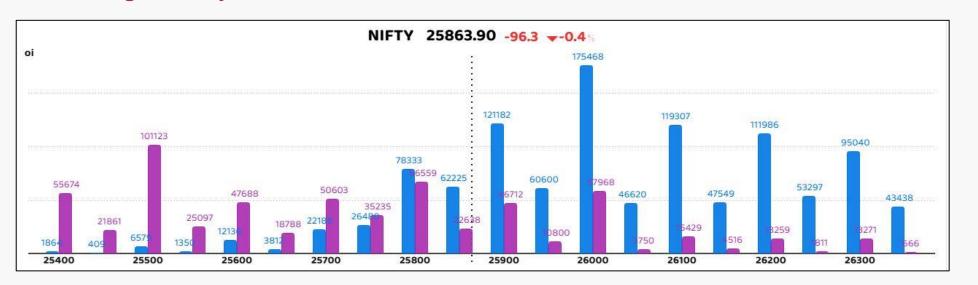




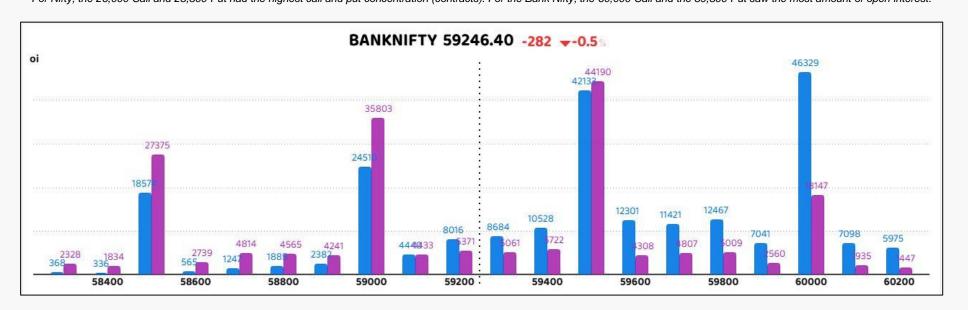


Positioning Stack by Strike (Nifty Current Week Expiry & BankNifty Monthly Expiry)





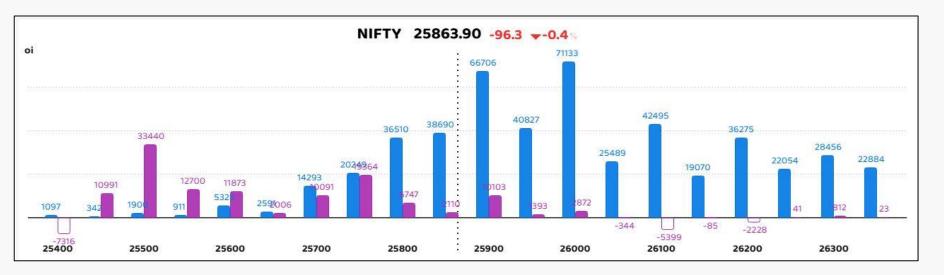
For Nifty, the 26,000 Call and 25,500 Put had the highest call and put concentration (contracts). For the Bank Nifty, the 60,000 Call and the 59,500 Put saw the most amount of open interest.



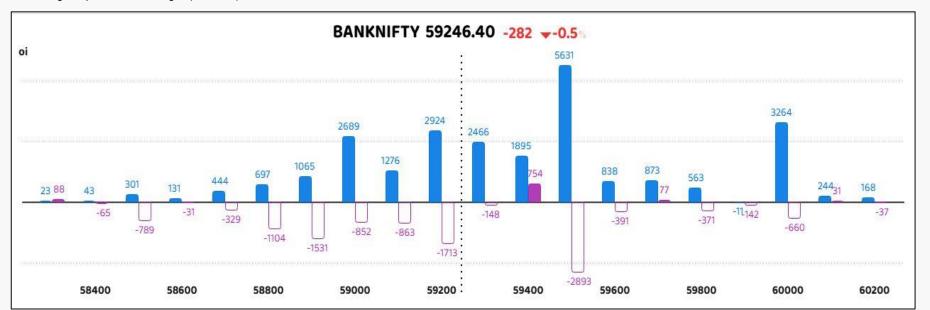


Open Interest Change (Nifty Current Week Expiry & BankNifty Monthly Expiry)





The largest open interest changes (contracts) were seen at the 26,000 Call and the 25,800 Put





Stocks with High IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
DIXON TECHNOLOGI	12,351.0	-8.6	40.9	53.0	9.2	72.3
INTERGLOBE AVIAT	4,805.5	-3.3	34.2	43.2	13.2	70.1
HINDUSTAN UNILEV	2,301.7	-0.2	16.0	25.8	0.8	60.9
VOLTAS LTD	1,340.9	0.4	33.7	46.9	16.2	57.1
BOSCH LTD	36,400.0	-1.0	21.0	36.2	2.1	55.5

Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
DABUR INDIA LTD	502.6	-0.2	17.8	37.5	17.6	1.0
ASHOK LEYLAND	158.0	-1.0	21.9	56.0	21.5	1.1
WIPRO LTD	258.0	0.2	20.0	93.6	19.1	1.2
GAIL INDIA LTD	168.0	0.1	21.0	91.4	19.8	1.7
NTPC LTD	321.6	0.6	17.1	116.6	14.9	2.2



Stocks With High IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
KAYNES TECHNOLOG	3,890.5	-10.2	62.9	62.9	30.3	100.0
INDIAN BANK	782.8	-1.4	42.6	49.1	20.0	94.3
INTERGLOBE AVIAT	4,805.5	-3.3	34.2	43.2	13.2	89.5
BLUE STAR LTD	1,729.4	-0.5	33.6	40.0	20.7	79.6
DIXON TECHNOLOGI	12,351.0	-8.6	40.9	53.0	9.2	67.8

Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
MANKIND PHARMA L	2,148.9	-1.4	20.5	40.7	20.5	0.0
ASHOK LEYLAND	158.0	-1.0	21.9	56.0	21.5	0.7
INDIAN HOTELS CO	718.6	-1.3	15.8	46.4	10.4	0.7
PNB HOUSING FINA	884.3	0.2	23.0	58.6	15.2	1.3
BAJAJ FINANCE LT	1,010.3	-0.6	20.1	34.0	16.4	1.4



Stocks With High Call Volume To Put Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
PAGEIND	36,695.0	-1.3	6,311	1,161	5.4
POWERGRID	265.5	0.4	9,244	2,123	4.4
YESBANK	21.7	-1.4	7,371	1,716	4.3
NHPC	76.9	0.5	15,352	3,683	4.2
LODHA	1,072.3	-0.3	10,481	2,566	4.1

Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
MCX	9,864.0	-4.8	39,479	39,140	1.0
INFY	1,584.8	-0.9	38,946	36,126	0.9
PAYTM	1,268.3	-3.7	26,621	23,421	0.9
KEI	3,947.9	-3.1	3,132	2,728	0.9
INDIGO	4,805.5	-3.3	2,51,894	2,16,457	0.9



Call Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
BDL	1,400.3	-1.9	17,923	17,734	100.0
BEL	387.4	-0.5	59,879	58,225	100.0
INDIANB	782.8	-1.4	10,977	10,939	100.0
INDIGO	4,805.5	-3.3	1,18,128	99,544	100.0
JSWENERGY	451.2	0.0	19,408	19,325	100.0

Put Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Put OI	Highest Put OI	Relative to Highest Put OI
INDIGO	4,805.5	-3.3	58,364	56,998	100.0
INOXWIND	119.8	-3.6	7,133	6,763	100.0
JSWENERGY	451.2	0.0	10,758	10,025	100.0
KAYNES	3,890.5	-10.2	30,842	27,298	100.0
TIINDIA	2,627.9	-1.0	4,602	3,649	100.0



Call Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
HINDZINC	512.6	4.3	1,00,178	1,08,867	92.0
KAYNES	3,890.5	-10.2	3,20,368	3,48,571	91.9
NHPC	76.9	0.5	15,352	21,233	72.3
TIINDIA	2,627.9	-1.0	35,031	58,146	60.2
INDIGO	4,805.5	-3.3	2,51,894	4,39,821	57.3

Put Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Put Vol	Highest PV	Relative to Highest PV
TIINDIA	2,627.9	-1.0	15,465	14,665	100.0
KAYNES	3,890.5	-10.2	2,65,340	3,06,333	86.6
INOXWIND	119.8	-3.6	8,879	12,089	73.4
HINDZINC	512.6	4.3	32,697	48,254	67.8
DIXON	12,351.0	-8.6	1,52,051	3,64,061	41.8



Call Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
INDIGO	4,805.5	-3.3	1,18,128	26,134	4.5
KAYNES	3,890.5	-10.2	81,593	33,561	2.4
TIINDIA	2,627.9	-1.0	7,582	3,534	2.1
DIXON	12,351.0	-8.6	72,076	35,574	2.0
ANGELONE	2,478.3	-2.2	20,074	11,026	1.8

Put Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
INDIGO	4,805.5	-3.3	58,364	17,669	3.3
KAYNES	3,890.5	-10.2	30,842	12,909	2.4
TIINDIA	2,627.9	-1.0	4,602	2,212	2.1
DIXON	12,351.0	-8.6	30,777	18,206	1.7
JSWSTEEL	1,096.8	-1.0	14,773	8,932	1.7



Call Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
TIINDIA	2,627.9	-1.0	35,031	5,039	7.0
KAYNES	3,890.5	-10.2	3,20,368	66,823	4.8
NHPC	76.9	0.5	15,352	3,362	4.6
AUBANK	993.7	2.2	39,588	9,387	4.2
ICICIPRULI	642.8	3.1	16,346	4,023	4.1

Put Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
KAYNES	3,890.5	-10.2	2,65,340	39,044	6.8
TIINDIA	2,627.9	-1.0	15,465	2,544	6.1
DIXON	12,351.0	-8.6	1,52,051	29,617	5.1
AUBANK	993.7	2.2	21,140	5,596	3.8
HINDZINC	512.6	4.3	32,697	8,946	3.7



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	2447280	4.0%	2212	2300	1103130	4.0%	JIOFIN	310	11742950	6.6%	291	300	6674000	3.1%
ADANIPORTS	1600	1961750	6.8%	1498	1500	740525	0.1%	JSWSTEEL	1200	3840075	9.4%	1097	1100	1563975	0.3%
APOLLOHOSP	7500	369750	6.9%	7019	7500	114875	6.9%	KOTAKBANK	2160	1066000	1.4%	2130	2000	952000	-6.1%
ASIANPAINT	3000	1167750	7.0%	2805	2600	491250	-7.3%	LT	4100	737975	2.7%	3991	4000	480200	0.2%
AXISBANK	1290	3670625	0.9%	1279	1280	1116250	0.1%	M&M	3800	1090000	4.7%	3630	3700	470400	1.9%
BAJAJ-AUTO	9500	249975	5.7%	8991	9000	154200	0.1%	MARUTI	16500	239950	3.0%	16019	15000	211350	-6.4%
BAJAJFINSV	2100	934500	1.7%	2066	2000	421000	-3.2%	MAXHEALTH	1100	786975	2.1%	1077	1160	446775	7.7%
BAJFINANCE	1100	3471750	8.9%	1010	1000	1750500	-1.0%	NESTLEIND	1320	2688000	9.2%	1209	1180	290000	-2.4%
BEL	420	13761225	8.4%	387	400	4403250	3.3%	NTPC	325	8322000	1.1%	322	300	2055000	-6.7%
BHARTIARTL	2200	2795375	6.4%	2067	2100	1174675	1.6%	ONGC	250	9749250	4.5%	239	240	1755000	0.3%
CIPLA	1660	942000	11.3%	1491	1400	518250	-6.1%	POWERGRID	280	5829200	5.5%	266	260	2416800	-2.1%
COALINDIA	380	2330100	-0.6%	382	440	1590300	15.1%	RELIANCE	1600	9906000	4.1%	1537	1500	2964000	-2.4%
DRREDDY	1300	1823125	3.9%	1251	1140	384375	-8.9%	SBILIFE	2060	830250	2.3%	2015	1840	276000	-8.7%
EICHERMOT	7300	348600	1.0%	7229	6300	238525	-12.8%	SBIN	1000	9246000	4.2%	960	950	3872250	-1.0%
ETERNAL	310	18303900	9.4%	283	290	5111900	2.4%	SHRIRAMFIN	880	2530275	5.1%	837	800	1805100	-4.4%
GRASIM	2800	621000	1.9%	2747	2700	570500	-1.7%	SUNPHARMA	1840	1317400	3.1%	1786	1780	337400	-0.3%
HCLTECH	1720	1046850	3.2%	1666	1440	512750	-13.6%	TATACONSUM	1200	1256750	5.3%	1140	1070	376750	-6.1%
HDFCBANK	1000	6542800	1.0%	990	1000	3474350	1.0%	TMPV	400	13433600	16.5%	343	360	4880000	4.8%
HDFCLIFE	800	4290000	3.8%	771	700	1454200	-9.2%	TATASTEEL	175	32631500	7.9%	162	170	12336500	4.8%
HINDALCO	800	2134300	-2.6%	822	800	1403500	-2.6%	TCS	3200	1095675	0.3%	3189	3200	600250	0.3%
HINDUNILVR	2400	938400	4.3%	2302	2300	408000	-0.1%	TECHM	1600	1072800	3.2%	1551	1500	496200	-3.3%
ICICIBANK	1400	7753900	2.7%	1364	1400	3615500	2.7%	TITAN	4000	567875	4.0%	3846	3800	340200	-1.2%
INDIGO	5500	2275950	14.5%	4806	4500	997950	-6.4%	TRENT	4300	901200	7.0%	4018	4000	351800	-0.5%
INFY	1600	7510000	1.0%	1585	1600	2487600	1.0%	ULTRACEMCO	12000	159750	6.0%	11317	10800	100650	-4.6%
ITC	410	10740800	1.7%	403	390	9076800	-3.3%	WIPRO	260	5754000	0.8%	258	250	3303000	-3.1%



- 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

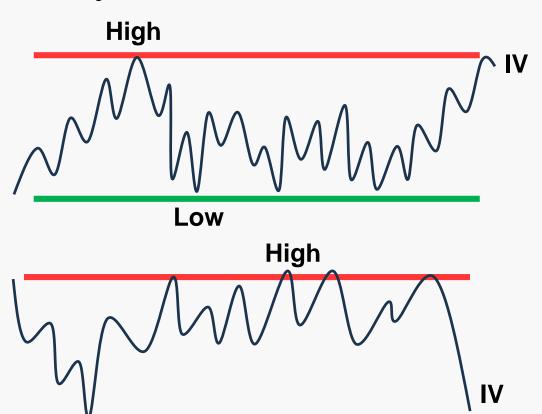


- Volume: Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- Open Interest: The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the 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): www.nseindia.com, 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 Rajiv Kejriwal, 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: Axis Securities Limited, 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 at helpdesk@axisdirect.in.

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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