

**Daily Derivatives Report** 



**Nifty Futures** 

	Value	Change	
Most recent settlement	25,246	0.1%▼	
Open Interest (OI)	1,87,99,425	1.1%▲	
Change in OI (abs)	1,87,99,425	1,95,375▲	
Premium / Discount (Abs)	34	36▼	
Inference	Short Build Up		

**Bank Nifty Futures** 

	Value	Change	
Most recent settlement	57,265	0.1%▲	
Open interest (OI)	25,52,830	1.8%▲	
Change in OI (abs)	25,52,830	44,870▲	
Premium / Discount (Abs)	96	130▼	
Inference	Long Build Up		

**Volatility Insights** 

	Value	Change
India VIX Index	11.24	0.24▼
Nifty ATM IV (%)	9.70	0.4▼
Bank Nifty ATM IV (%)	11.90	0.2 ▲
PCR (Nifty)	0.92	0.04 ▲
PCR (Bank Nifty)	0.92	0.02 ▲

The FII Long Ratio in Index Futures **drop** to 18.2%, **down** from 18.7% in the previous session.

## **Single Stock Futures Movers**

Long Buildup (Open Interest Higher + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
PGEL	56,76,300	16.0%	831.95	2.4%			
ANGELONE	37,31,250	15.2%	2702.3	1.2%			
INDIANB	69,01,000	8.3%	644.1	1.2%			
360ONE	18,83,000	8.0%	1202.2	0.0%			
PATANJALI	99,03,000	6.1%	1861.4	6.6%			

Short Buildup (Open Interest Higher + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
AMBER	2,52,400	12.0%	7629	-3.1%			
ICICIGI	57,98,000	8.3%	1974.9	-1.5%			
ABB	28,75,750	7.5%	5561.5	-0.9%			
PAGEIND	2,79,015	6.1%	46755	-3.4%			
PRESTIGE	51,83,550	5.3%	1726.1	-0.3%			

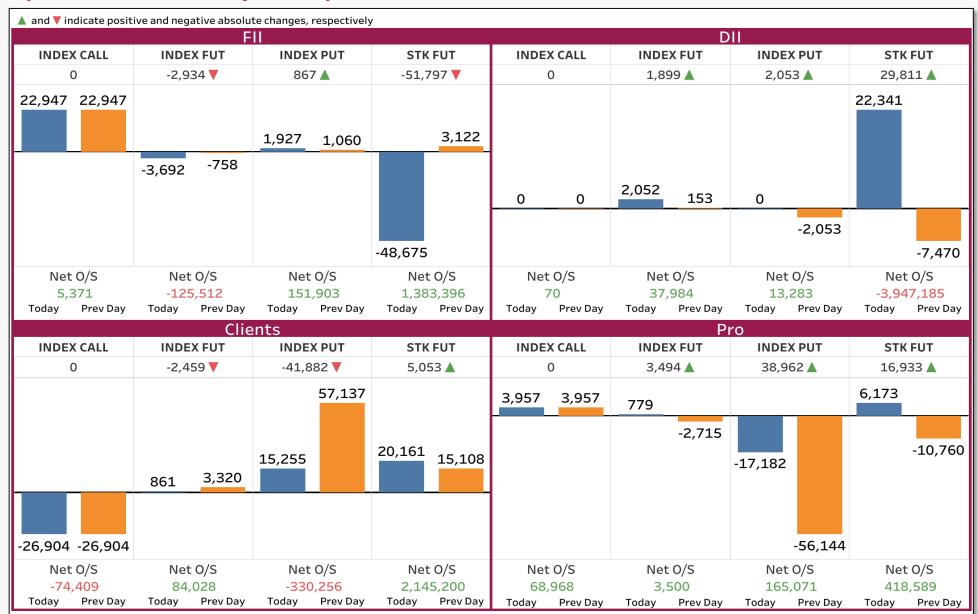
Short Covering (Open Interest Lower + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
GRANULES	1,28,32,275	-5.3%	499.45	1.4%			
BANKINDIA	7,08,03,200	-4.2%	118.14	1.8%			
DABUR	1,89,02,500	-4.1%	523.35	0.1%			
LICHSGFIN	2,78,44,000	-3.3%	638.85	2.8%			
CDSL	98,77,150	-3.2%	1727.5	1.2%			

Long Unwinding (Open Interest Lower + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
KEI	12,36,375	-5.3%	3895.9	-0.3%			
GLENMARK	92,43,000	-5.0%	2210.7	-0.8%			
BALKRISIND	16,37,400	-4.9%	2659.1	-0.9%			
CHOLAFIN	1,25,78,125	-4.1%	1560.3	-0.2%			
KAYNES	6,29,800	-3.3%	5979.5	0.0%			

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

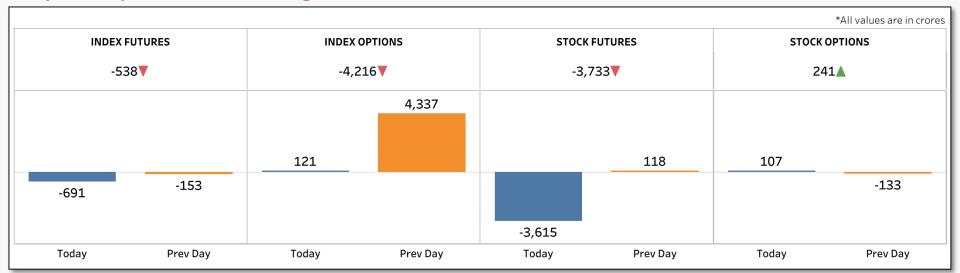


### **Open Interest Trends by Participant**

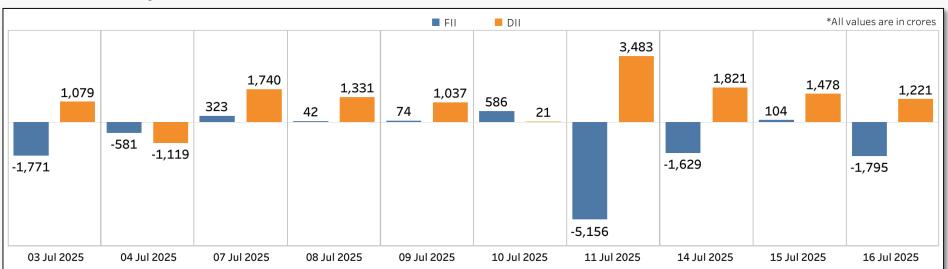




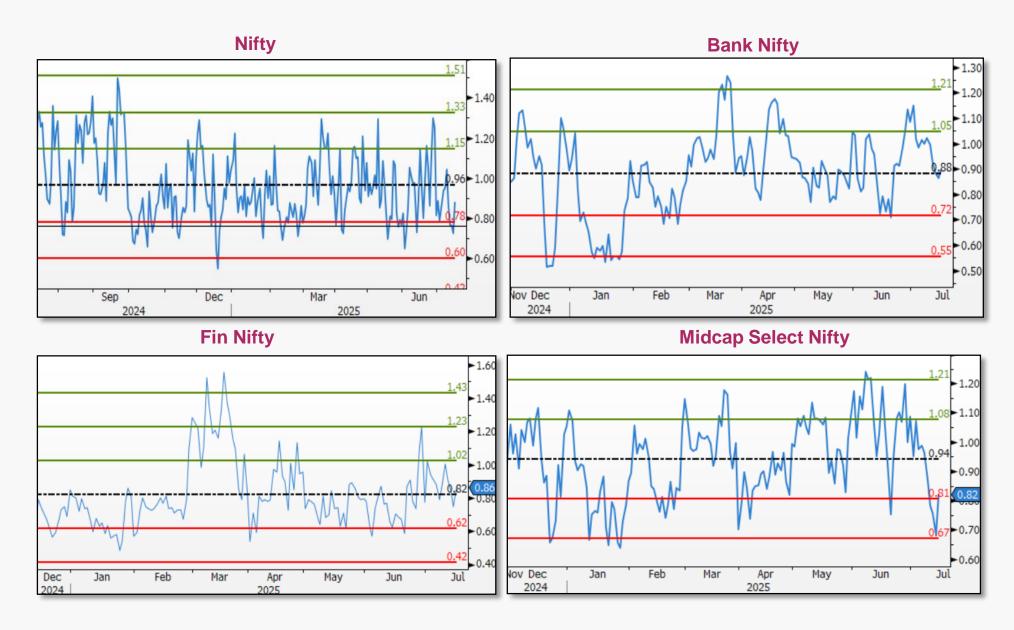
### **Daily Net Open Interest Change**



# **DII and FII Daily Cash Market Flows**



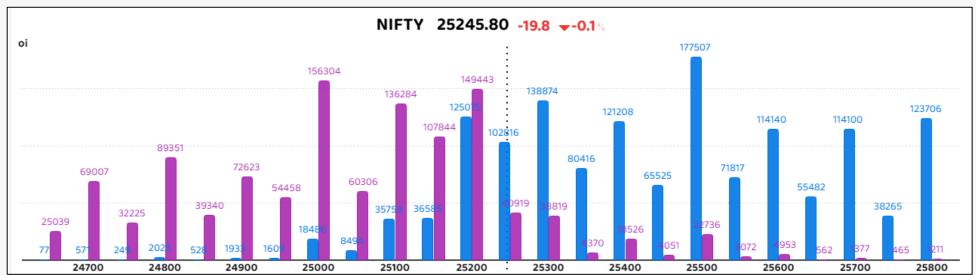




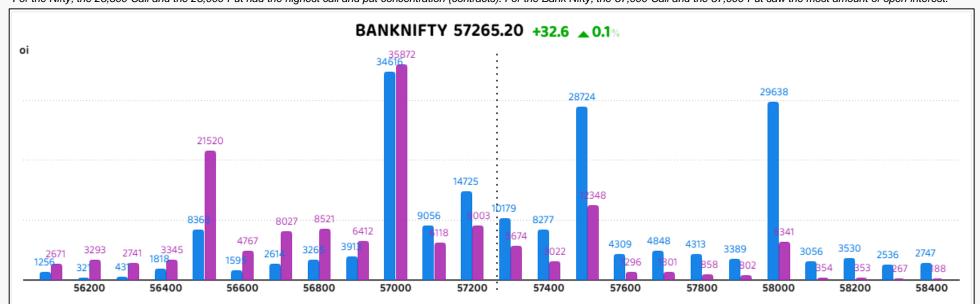


#### Positioning Stack by Strike (Nifty Current Week Expiry & BankNifty Monthly Expiry)





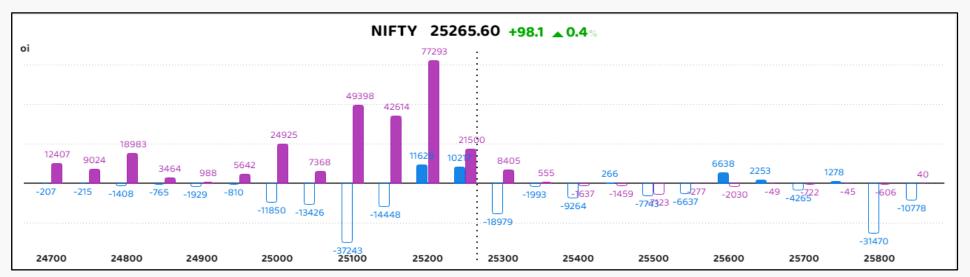
For the Nifty, the 25,500 Call and the 25,000 Put had the highest call and put concentration (contracts). For the Bank Nifty, the 57,000 Call and the 57,000 Put saw the most amount of open interest.



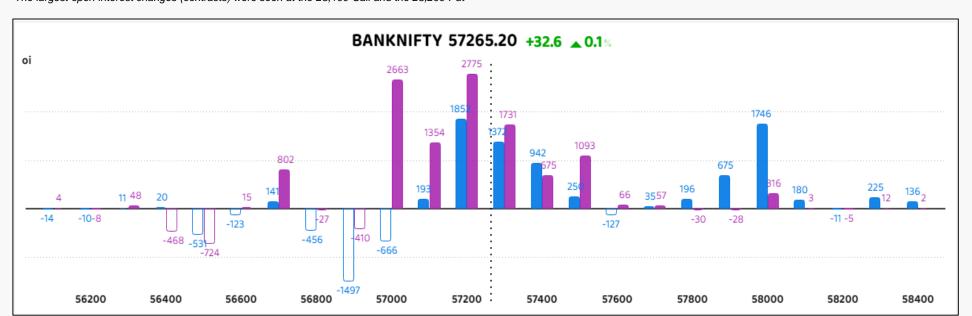


### **Open Interest Change (Nifty Current Week Expiry & BankNifty Monthly Expiry)**





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)
PIRAMAL PHARMA	214.86	-0.6	40.1	40.1	31.0	100.0
BOSCH LTD	38475	0.4	31.2	34.9	3.3	88.0
DIXON TECHNOLOGIES	16099	1.7	39.0	53.0	1.8	72.6
HAVELLS INDIA	1525	-0.8	30.3	35.6	17.8	70.1
MANKIND PHARMA	2625.5	-1.0	34.8	39.5	25.0	67.3

## Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
FSN E-COMMERCE	215.7	-0.2	22.8	51.1	22.8	0.0
DELHIVERY LTD	421.15	0.9	29.3	58.6	29.3	0.0
AVENUE SUPERMART	4086	1.5	26.0	62.3	25.7	1.0
FED BANK LTD	214.69	1.4	23.8	130.9	22.0	1.6
TVS MOTOR CO LTD	2897.3	0.4	23.2	41.2	22.6	3.2



## **Stocks With High IVP:**

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
PIRAMAL PHARMA	214.86	-0.6	40.1	40.1	31.0	100.0
BOSCH LTD	38475	0.4	31.2	34.9	3.3	97.7
KAYNES TECHNOLOGY	5977.5	0.0	43.6	49.4	32.2	97.7
MANKIND PHARMA	2625.5	-1.0	34.8	39.5	25.0	92.7
MPHASIS LTD	2876.8	-0.3	39.5	59.4	20.4	91.9

#### Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
FSN E-COMMERCE	215.7	-0.2	22.8	51.1	22.8	0.0
DELHIVERY LTD	421.15	0.9	29.3	58.6	29.3	0.0
GLENMARK PHARMA	2204.8	-1.0	23.1	47.4	15.9	1.3
AVENUE SUPERMART	4086	1.5	26.0	62.3	25.7	1.7
BALKRISHNA INDS	2652.9	-0.7	19.4	42.7	17.8	2.0



## **Stocks With High Call Volume To Put Volume**

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
YES BANK LTD	20.24	-1.1	7329	1107	6.6
PNB HOUSING FINANCE	1106.1	0.6	9397	1717	5.5
KAYNES TECHNOLOGY	5977.5	0.0	8320	1646	5.1
ALKEM LABORATORIES	5002.2	1.4	9017	1841	4.9
VODAFONE IDEA	7.83	2.2	20048	4293	4.7

# Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
BLUE STAR LTD	1860.6	-1.2	2880	3091	1.1
GLENMARK PHARMA	2204.8	-1.0	1436	1470	1.0
LAURUS LABS LTD	822.55	-0.5	3275	3155	1.0
TATA ELXSI LTD	6311	-1.1	11786	9906	0.8
HINDUSTAN UNILEVER	2517.6	-0.4	15975	13271	0.8



## **Call Open Interest Relative to Record High**

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
TRENT LTD	5382	-0.1	89417	89417	100.0
BOSCH LTD	38475	0.4	19389	19389	100.0
PATANJALI FOODS	1859.6	6.6	13151	13151	100.0
KAYNES TECHNOLOGY	5977.5	0.0	6148	6148	100.0
UNO MINDA LTD	1119.5	1.2	2936	2959	99.2

#### **Put Open Interest Relative to Record High**

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
HINDUSTAN UNILEVER	2517.6	-0.4	26227	26227	100.0
BOSCH LTD	38475	0.4	11378	11378	100.0
PATANJALI FOODS	1859.6	6.6	7797	7797	100.0
UNO MINDA LTD	1119.5	1.2	1209	1209	100.0
PHOENIX MILLS	1480.9	-0.7	2308	2308	100.0



## **Call Volume Relative to Record High**

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
ICICI LOMBARD GE	1970.8	-1.6	137142	137142	100.0
PATANJALI FOODS	1859.6	6.6	152025	152025	100.0

### **Put Volume Relative to Record High**

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
N	IO 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	1970.8	-1.6	11893	3719	3.2
PATANJALI FOODS	1859.6	6.6	13151	5411	2.4
ICICI PRUDENTIAL	650.6	-2.8	10015	4181	2.4
HCL TECH LTD	1562.8	-0.2	49190	20850	2.4
BOSCH LTD	38475	0.4	19389	8923	2.2

# **Put Open Interest to 20-day Average**

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
PATANJALI FOODS	1859.6	6.6	7797	3088	2.5
BOSCH LTD	38475	0.4	11378	4694	2.4
PIRAMAL ENTERPRISES	1314.9	-0.6	4645	2096	2.2
TATA ELXSI LTD	6311	-1.1	10016	4530	2.2
ICICI LOMBARD	1970.8	-1.6	4731	2306	2.1



## **Call Volume Relative to 20-day Average**

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
ICICI LOMBARD	1970.8	-1.6	137142	11103	12.4
PATANJALI FOODS	1859.6	6.6	152025	13692	11.1
SYNGENE	667.75	1.9	13670	3005	4.5
LIC HOUSING FINANCE	637.05	2.9	33978	8402	4.0
BIOCON LTD	394.65	1.1	34746	8944	3.9

## **Put Volume Relative to 20-day Average**

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
PATANJALI FOODS	1859.6	6.6	43500	4146	10.5
ICICI LOMBARD	1970.8	-1.6	31217	3526	8.9
ICICI PRUDENTIAL	650.6	-2.8	16385	3641	4.5
BIOCON LTD	394.65	1.1	14413	3629	4.0
ABB INDIA LTD	5551	-1.0	17571	4656	3.8



## 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	2700	1543500	3.5%	2609	2700	1773000	3.5%	ITC	420	10280000	-1.1%	425	420	5513600	-1.1%
ADANIPORTS	1500	1914725	3.0%	1457	1400	1274900	-3.9%	JIOFIN	330	11371650	3.3%	320	300	5334500	-6.1%
APOLLOHOSP	7600	261500	3.4%	7353	7000	168875	-4.8%	JSWSTEEL	1180	1360800	14.6%	1030	1000	722250	-2.9%
ASIANPAINT	2500	1842500	3.7%	2411	2300	420750	-4.6%	KOTAKBANK	2200	920000	0.9%	2179	2100	808000	-3.6%
AXISBANK	1200	7874375	2.7%	1168	1200	1673750	2.7%	LT	3700	1461425	5.6%	3504	3500	589225	-0.1%
BAJAJ-AUTO	9000	220200	8.4%	8303	8000	122550	-3.6%	M&M	3200	1246600	0.1%	3197	3200	449600	0.1%
BAJAJFINSV	2100	1328500	3.1%	2036	1980	452500	-2.8%	MARUTI	12800	571700	1.9%	12564	12600	87800	0.3%
BAJFINANCE	1000	2928000	8.5%	922	900	1830750	-2.4%	NESTLEIND	2500	497750	1.6%	2460	2300	176500	-6.5%
BEL	430	11320200	5.9%	406	400	6287100	-1.5%	NTPC	345	32659500	0.7%	342	345	5130000	0.7%
BHARTIARTL	2000	3240925	3.3%	1937	1900	893475	-1.9%	ONGC	250	21123000	2.9%	243	240	2481750	-1.2%
CIPLA	1600	901875	8.4%	1476	1340	393375	-9.2%	POWERGRID	300	5827300	1.0%	297	300	2226800	1.0%
COALINDIA	400	9319050	3.5%	386	400	3392550	3.5%	RELIANCE	1550	6494500	4.3%	1486	1500	2402000	1.0%
DRREDDY	1300	1482500	3.2%	1259	1100	795625	-12.7%	SBILIFE	1860	1499250	1.7%	1829	1820	328500	-0.5%
EICHERMOT	5800	269325	3.1%	5627	5800	116200	3.1%	SBIN	820	18771750	-1.4%	832	820	7134750	-1.4%
ETERNAL	290	7587825	10.5%	262	250	4292250	-4.7%	SHRIRAMFIN	700	2305050	4.7%	668	700	614625	4.7%
GRASIM	2820	264500	2.1%	2762	2800	135750	1.4%	SUNPHARMA	1720	2499350	1.1%	1701	1700	709100	-0.1%
HCLTECH	1600	1919050	2.4%	1563	1560	744450	-0.2%	TATACONSUM	1230	940500	13.7%	1082	980	564300	-9.4%
HDFCBANK	2020	5402100	1.2%	1996	2000	2079000	0.2%	TATAMOTORS	700	8112800	3.1%	679	680	3614400	0.1%
HDFCLIFE	820	3228500	8.5%	756	760	1318900	0.5%	TATASTEEL	170	21785500	8.1%	157	160	8228000	1.7%
HEROMOTOCO	4500	840450	1.7%	4425	4300	272250	-2.8%	TCS	3500	4116000	8.3%	3233	3200	1133825	-1.0%
HINDALCO	700	3879400	5.0%	667	670	1272600	0.5%	TECHM	1670	1150800	3.9%	1608	1600	804600	-0.5%
HINDUNILVR	2560	1123500	1.7%	2518	2400	761700	-4.7%	TITAN	3500	1071175	2.4%	3417	3400	450625	-0.5%
ICICIBANK	1500	2678900	5.2%	1426	1400	1808800	-1.9%	TRENT	6000	1204200	11.5%	5382	5500	373500	2.2%
INDUSINDBK	900	2966600	2.3%	880	850	938000	-3.4%	ULTRACEMCO	13000	125300	4.4%	12453	11000	61550	-11.7%
INFY	1600	3755600	-0.5%	1608	1600	1763600	-0.5%	WIPRO	270	7023000	2.7%	263	250	3564000	-4.9%



- 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

<sup>\*</sup>ATM IV is the midpoint of the IV for the ATM call and put respectively

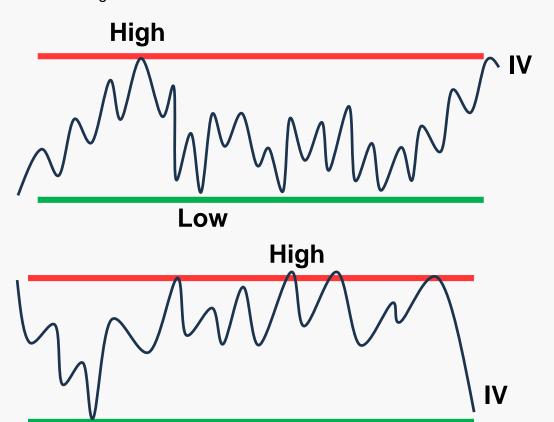


- Volume: Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- Open Interest: The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the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

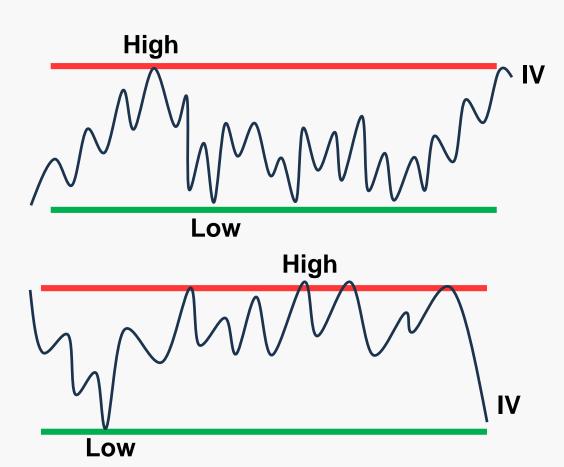


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

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.



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