



**Daily Derivatives Report** 



**Nifty Futures** 

	Value	Change	
Most recent settlement	24,627	1.0%▼	
Open Interest (OI)	1,78,65,300	8.6%▲	
Change in OI (abs)	1,78,65,300	14,12,250▲	
Premium / Discount (Abs)	62	41▼	
Inference	Short Build Up		

**Bank Nifty Futures** 

	Value	Change	
Most recent settlement	55,794	0.7%▼	
Open interest (OI)	22,77,345	16.5%▲	
Change in OI (abs)	22,77,345	3,21,825▲	
Premium / Discount (Abs)	177	55▼	
Inference	Short Build Up		

**Volatility Insights** 

	Value	Change
India VIX Index	11.97	0.43 ▲
Nifty ATM IV (%)	10.87	0.4▲
Bank Nifty ATM IV (%)	11.16	0.4▲
PCR (Nifty)	0.75	0.29▼
PCR (Bank Nifty)	0.93	0.04▼

The FII Long Ratio in Index Futures drop to 8.5 %, down from 9.5 % in the previous session.

## **Single Stock Futures Movers**

Long Buildup (Open Interest Higher + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
KAYNES	7,91,300	15.0%	6395.5	3.0%			
INOXWIND	2,99,48,616	7.5%	152.34	0.5%			
HEROMOTOCO	66,74,700	1.9%	4268.4	1.0%			
MARICO	2,13,10,800	1.7%	714.35	1.3%			
ABFRL	5,06,45,400	1.6%	73.67	0.6%			

Short Buildup (Open Interest Higher + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
PNBHOUSING	1,80,32,950	98.0%	812.65	-17.6%			
IGL	1,64,78,000	10.0%	198.48	-2.7%			
FEDERALBNK	8,37,55,000	8.4%	195.19	-3.6%			
COALINDIA	7,72,53,750	6.8%	364.45	-1.7%			
IEX	3,63,67,500	5.9%	132.48	-2.6%			

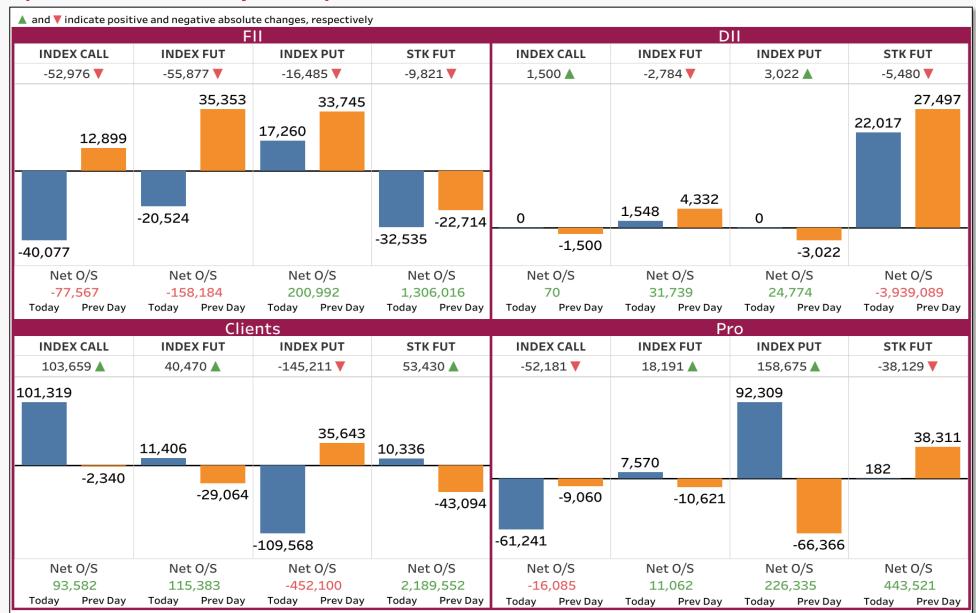
Short Covering (Open Interest Lower + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
MANKIND	14,94,000	-7.3%	2578.2	0.4%			
KFINTECH	21,21,300	-6.8%	1096.4	1.4%			
AMBUJACEM	2,81,98,800	-4.0%	607.35	2.1%			
DABUR	1,57,98,750	-3.0%	537	1.1%			
ASIANPAINT	1,36,76,000	-1.5%	2437.6	1.4%			

Long Unwinding (Open Interest Lower + Price Lower)							
Symbol Open Interest Chg (%) Price Chg							
ATGL	34,60,625	-7.9%	596.9	-1.5%			
INDIANB	67,95,000	-6.1%	620.9	-0.3%			
SHREECEM	2,39,100	-5.2%	30800	-0.3%			
FORTIS	90,20,225	-4.7%	860.95	0.0%			
PPLPHARMA	1,39,45,000	-4.5%	190.81	-3.5%			

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

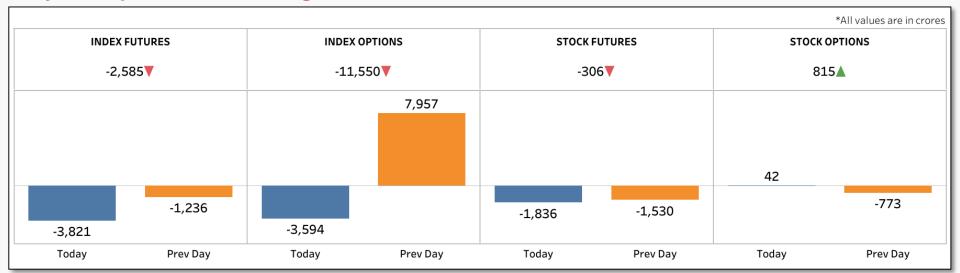


# **Open Interest Trends by Participant**

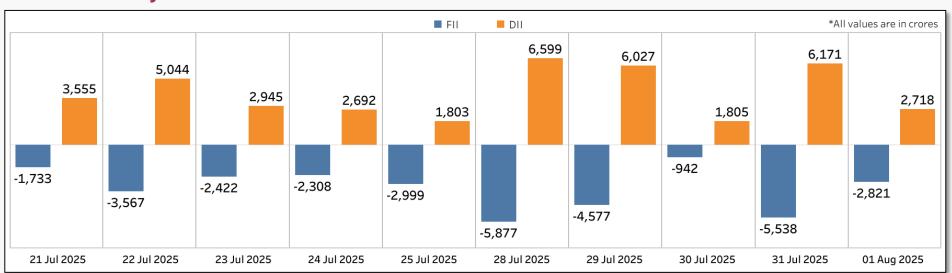




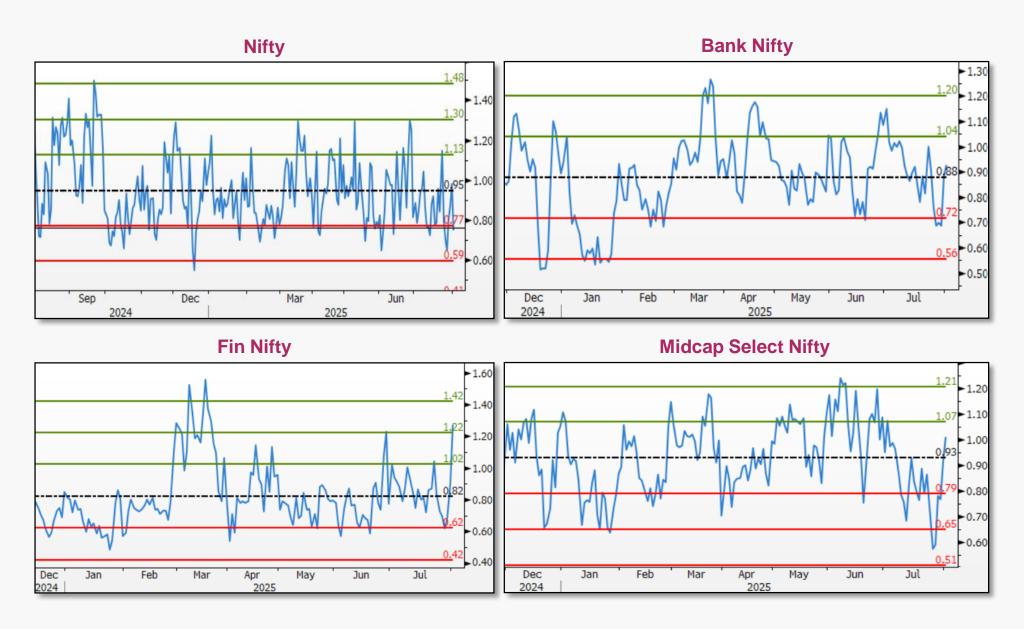
#### **Daily Net Open Interest Change**



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



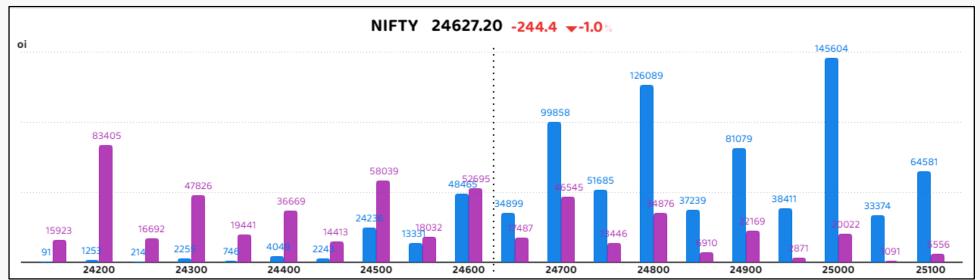




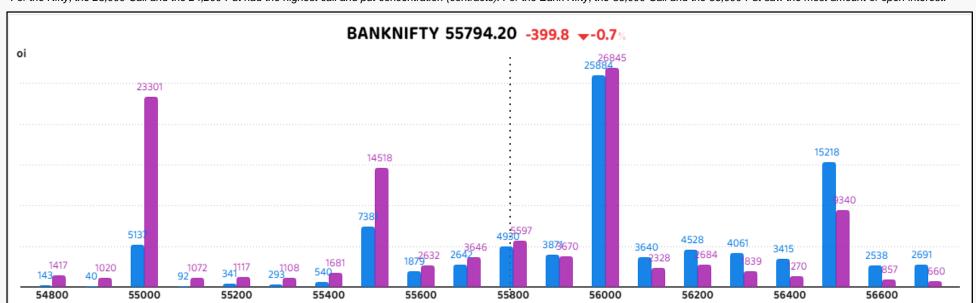


#### Positioning Stack by Strike (Nifty Current Week Expiry & BankNifty Monthly Expiry)

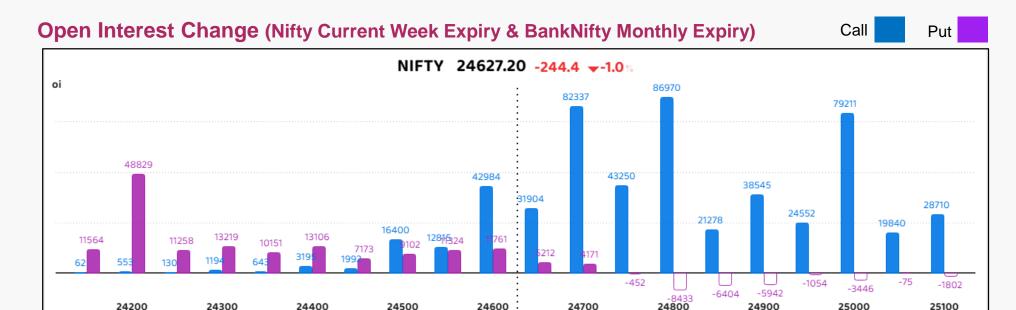




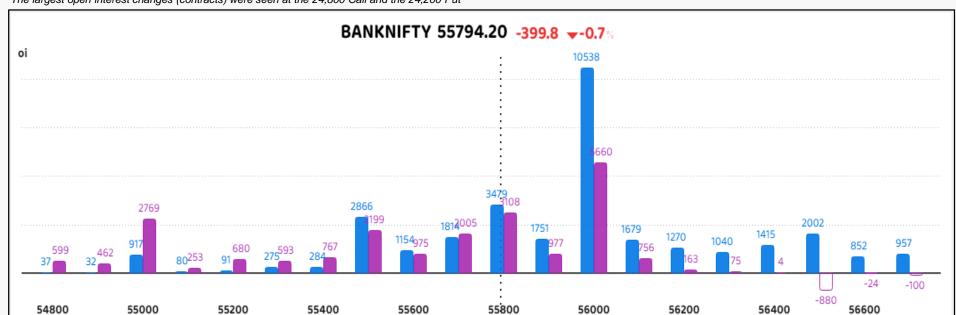
For the Nifty, the 25,000 Call and the 24,200 Put had the highest call and put concentration (contracts). For the Bank Nifty, the 56,000 Call and the 56,000 Put saw the most amount of open interest.













# Stocks with High IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
PG ELECTROPLAST	778.65	-4.1	48.9	48.9	35.6	100.0
BOSCH LTD	40390	0.0	35.2	36.2	3.3	97.0
SHREE CEMENT	30675	-0.4	28.2	31.9	7.9	84.5
RAIL VIKAS NIGAM	345.45	-0.8	44.0	46.6	32.0	82.3
BLUE STAR LTD	1697	-2.4	35.3	38.3	23.4	79.9

#### Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
BALKRISHNA INDS	2575.8	-3.8	17.4	42.7	17.4	0.0
ORACLE FINANCIAL	8378.5	-1.1	12.1	54.7	12.1	0.0
BHARAT ELECTRONICS	377.2	-1.5	25.6	60.0	25.5	0.4
HDFC LIFE	741.7	-1.8	20.0	80.6	19.5	0.8
CG POWER	651.3	-1.6	27.6	52.1	27.4	1.0



# **Stocks With High IVP:**

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
PG ELECTROPLAST	778.65	-4.1	48.9	48.9	35.6	100.0
BOSCH LTD	40390	0.0	35.2	36.2	3.3	99.4
IEX	132.09	-2.4	49.3	76.3	25.8	97.6
AUROBINDO PHARMA	1079.8	-5.3	40.1	53.8	22.4	97.3
RAIL VIKAS NIGAM	345.45	-0.8	44.0	46.6	32.0	95.6

#### Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
SUZLON ENERGY	65.95	7.1	42.2	42.2	42.2	0.0
ORACLE FINANCIAL	8378.5	-1.1	12.1	54.7	12.1	0.0
BALKRISHNA INDS	2575.8	-3.8	17.4	42.7	17.4	0.0
NUVAMA WEALTH	6916.5	-4.5	47.1	47.1	47.1	0.0
BHARAT ELECTRONICS	377.2	-1.5	25.6	60.0	25.5	0.6



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

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
CHAMBAL FERTILISER	518.3	0.7	12683	2150	5.9
SUZLON ENERGY	65.95	7.1	25390	5362	4.7
JSW ENERGY LTD	511.65	-0.7	35080	8882	4.0
VODAFONE IDEA	6.6	-4.5	7702	2036	3.8
ADITYA BIRLA FASHION	73.78	1.2	13400	3555	3.8

# Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
CIPLA LTD	1554.6	-3.3	12799	18084	1.4
AUROBINDO PHARMA	1139.8	-5.3	11061	14669	1.3
DIVI LABS LTD	6595.5	-3.5	11074	13852	1.3
GRANULES INDIA	474.9	-4.9	2918	3576	1.2
INDUSIND BANK	798.9	-1.9	25598	30128	1.2



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

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
PNB HOUSING FINANCE	981.20	-18.0	22469	22469	100.0
KAYNES TECHNOLOGY	6172	3.2	6227	6884	90.5

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

Ticker	Last Px	Chg (%)	Total Put OI	Highest Put OI	Relative to Highest Put OI
KAYNES TECHNOLOGY	6371.5	3.2	4779	4779	100.0
PNB HOUSING FINANCE	808.45	-18.0	11631	11631	100.0



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

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
KAYNES TECHNOLOGY	6371.5	3.2	63447	63447	100.0
PNB HOUSING FINANCE	808.45	-18.0	92484	92484	100.0

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

Ticker	Last Px	Chg (%)	Total Put Vol	Highest PV	Relative to Highest PV
KAYNES TECHNOLOGY	6371.5	3.2	20910	20910	100.0
PNB HOUSING FINANCE	808.45	-18.0	57585	57585	100.0



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

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
PNB HOUSING FINANCE	808.45	-18.0	22469	5100	4.4
IIFL FINANCE LTD	427.2	-10.6	3451	2751	1.3
DELHIVERY LTD	429.85	1.1	3738	3182	1.2
KAYNES TECHNOLOGY	6371.5	3.2	6227	5529	1.1
INDUS TOWERS LTD	345.1	-4.9	9899	8912	1.1

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

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
PNB HOUSING FINANCE	808.45	-18.0	11631	3113	3.7
KAYNES TECHNOLOGY	6371.5	3.2	4779	2694	1.8
INDUS TOWERS LTD	345.1	-4.9	6556	5330	1.2
MANAPPURAM FINANCE	247.9	-2.0	4289	3545	1.2
PETRONET LNG LTD	280.75	-2.6	5934	5145	1.2



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

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
SUZLON ENERGY	65.95	7.1	25390	1270	20.0
PNB HOUSING FINANCE	808.45	-18.0	92484	9894	9.3
EICHER MOTORS	5528	1.1	79339	11989	6.6
KAYNES TECHNOLOGY	6371.5	3.2	63447	12997	4.9
TVS MOTOR CO LTD	2858.2	2.0	38078	8765	4.3

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

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
PNB HOUSING FINANCE	808.45	-18.0	57585	5136	11.2
EICHER MOTORS	5528	1.1	33479	5648	5.9
KAYNES TECHNOLOGY	6371.5	3.2	20910	4001	5.2
SUN PHARMA	1629.7	-4.5	74782	16679	4.5
IIFL FINANCE LTD	427.2	-10.6	9285	2417	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	2600	1603200	10.6%	2351	2700	1306500	14.8%	ITC	420	14534400	0.9%	416	410	4579200	-1.5%
ADANIPORTS	1400	1111025	3.9%	1347	1400	1214100	3.9%	JIOFIN	350	7176900	6.2%	330	310	6229850	-5.9%
APOLLOHOSP	7500	108625	2.0%	7352	7000	36375	-4.8%	JSWSTEEL	1060	768150	3.1%	1028	1000	411075	-2.7%
ASIANPAINT	2460	649250	1.2%	2431	2400	457250	-1.3%	KOTAKBANK	2000	1146800	0.4%	1992	2000	648800	0.4%
AXISBANK	1200	2710625	13.0%	1062	1100	1495000	3.5%	LT	3700	629825	3.1%	3587	3600	382375	0.4%
BAJAJ-AUTO	8500	93825	5.7%	8045	8000	109650	-0.6%	M&M	3200	799200	1.3%	3159	3200	419400	1.3%
BAJAJFINSV	2000	797000	4.4%	1916	1900	339500	-0.9%	MARUTI	13000	272150	5.7%	12302	12000	91650	-2.5%
BAJFINANCE	900	6328500	2.8%	876	900	3813000	2.8%	NESTLEIND	2300	324250	1.0%	2277	2260	147500	-0.7%
BEL	400	7854600	6.0%	377	370	3901650	-1.9%	NTPC	340	4428000	2.8%	331	380	1831500	14.8%
BHARTIARTL	2000	1249725	6.1%	1884	1900	546725	0.8%	ONGC	250	3775500	5.6%	237	240	2029500	1.4%
CIPLA	1600	592125	6.5%	1503	1500	264750	-0.2%	POWERGRID	300	3220500	3.0%	291	290	1525700	-0.4%
COALINDIA	400	5382450	7.4%	373	370	3271050	-0.7%	RELIANCE	1500	7680000	7.6%	1394	1400	4503000	0.5%
DRREDDY	1300	1688125	6.5%	1221	1200	413125	-1.7%	SBILIFE	1860	367125	3.6%	1796	1600	86250	-10.9%
EICHERMOT	5700	182175	3.1%	5528	5000	131425	-9.6%	SBIN	820	7051500	3.3%	794	820	6696000	3.3%
ETERNAL	310	7117375	1.7%	305	300	4769975	-1.6%	SHRIRAMFIN	700	1584000	14.0%	614	600	798600	-2.3%
GRASIM	2800	178000	2.9%	2722	2700	95750	-0.8%	SUNPHARMA	1800	939750	10.4%	1630	1500	980350	-8.0%
HCLTECH	1600	821800	10.2%	1452	1500	448700	3.3%	TATACONSUM	1100	614900	2.8%	1070	1000	357500	-6.6%
HDFCBANK	2100	1803450	4.4%	2012	2000	3199900	-0.6%	TATAMOTORS	700	5088000	7.9%	649	800	2576000	23.3%
HDFCLIFE	800	1430000	7.9%	742	730	702900	-1.6%	TATASTEEL	180	23006500	17.6%	153	140	7133500	-8.5%
HEROMOTOCO	4500	236850	4.4%	4312	4000	125400	-7.2%	TCS	3200	2344650	6.6%	3003	3000	1170925	-0.1%
HINDALCO	700	1877400	4.1%	672	650	680400	-3.3%	TECHM	1600	992400	11.2%	1439	1500	330600	4.3%
HINDUNILVR	2600	1900500	1.8%	2554	2400	757500	-6.0%	TITAN	3400	292250	2.5%	3316	3400	233625	2.5%
ICICIBANK	1500	2520000	1.9%	1472	1400	1316700	-4.9%	TRENT	5500	269700	6.2%	5180	5000	211900	-3.5%
INDUSINDBK	900	1873900	14.8%	784	800	1177400	2.1%	ULTRACEMCO	13000	82350	7.3%	12113	12000	29700	-0.9%
INFY	1600	2790400	8.9%	1470	1400	1034400	-4.7%	WIPRO	270	6516000	11.2%	243	250	3438000	3.0%



- 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

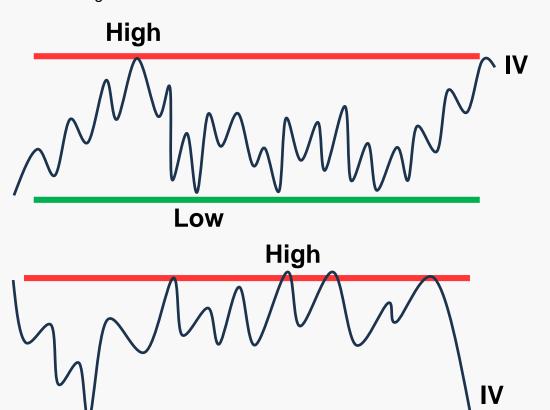


- Volume: Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- Open Interest: The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the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

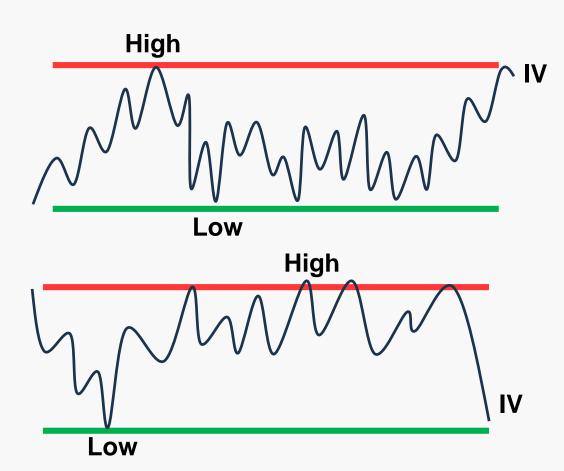


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

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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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.

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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