



**Nifty Futures** 

	Value	Change	
Most recent settlement	25,411	0.4%▼	
Open Interest (OI)	1,88,20,050	0.4%▲	
Change in OI (abs)	1,88,20,050	79,200 ▲	
Premium / Discount (Abs)	126	102▼	
Inference	Short Build Up		

**Bank Nifty Futures** 

	Value	Change	
Most recent settlement	56,862	0.0%▼	
Open interest (OI)	19,70,150	1.0%▲	
Change in OI (abs)	19,70,150	20,440▲	
Premium / Discount (Abs)	252	6▼	
Inference	Short Build Up		

**Volatility Insights** 

	Value	Change
India VIX Index	11.01	0.91 ▲
Nifty ATM IV (%)	9.80	1.0▲
Bank Nifty ATM IV (%)	11.14	1.0 ▲
PCR (Nifty)	1.05	0.27▼
PCR (Bank Nifty)	1.13	0.01 ▼

The FII Long Ratio in Index Futures drop to 7.3 %, down from 7.5 % in the previous session.

## **Single Stock Futures Movers**

Long Buildup (Open Interest Higher + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
POWERINDIA	67,800	10.9%	17850	0.8%			
360ONE	27,10,500	9.2%	1103.1	0.8%			
ANGELONE	43,12,250	7.1%	2347	1.5%			
LTIM	29,58,150	6.4%	5503	0.4%			
CDSL	88,17,900	6.0%	1628	0.8%			

Short Buildup (Open Interest Higher + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
DMART	67,68,750	9.2%	4210.6	-2.9%			
PAGEIND	2,43,975	6.9%	40675	-1.9%			
RECLTD	8,94,36,150	6.2%	372.05	-0.7%			
OIL	1,06,27,400	5.6%	415.6	-0.6%			
ZYDUSLIFE	89,25,300	0.9%	997.35	-0.2%			

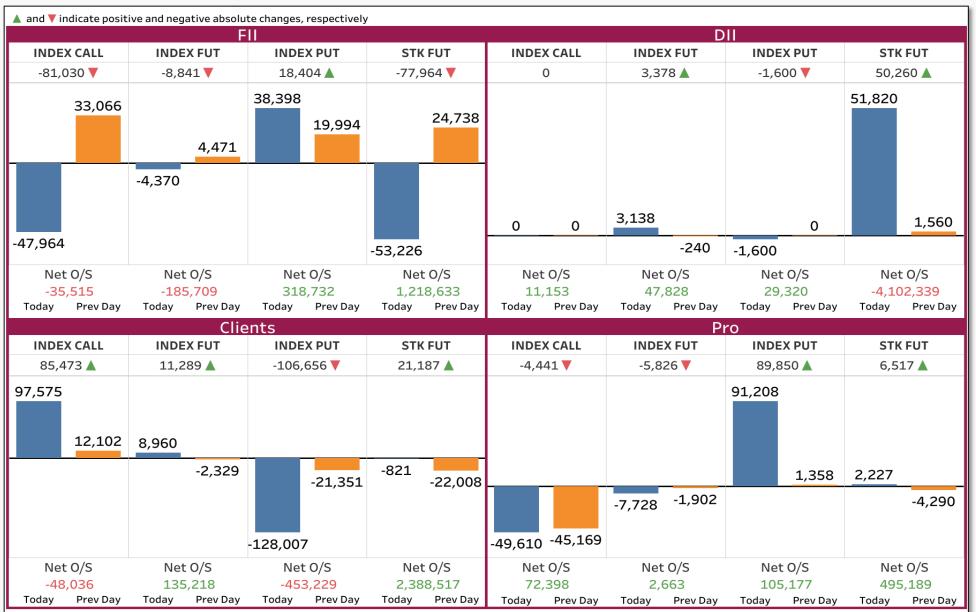
Short Covering (Open Interest Lower + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
TORNTPOWER	42,35,250	-4.5%	1285.7	3.3%			
SONACOMS	2,09,00,250	-4.2%	436.35	0.5%			
AUBANK	2,02,26,000	-3.4%	768.6	0.1%			
BAJAJ-AUTO	30,35,625	-2.6%	9108.5	1.3%			
GAIL	9,67,30,200	-2.5%	180.64	0.6%			

Long Unwinding (Open Interest Lower + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
TATAMOTORS	2,75,04,800	-38.3%	660.4	-2.8%			
OFSS	10,38,825	-6.2%	9205.5	-0.7%			
RBLBANK	7,70,60,425	-3.1%	290.95	-0.6%			
ONGC	9,62,28,000	-2.7%	244.44	-1.0%			
CIPLA	1,08,66,000	-2.3%	1566.3	-0.4%			

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

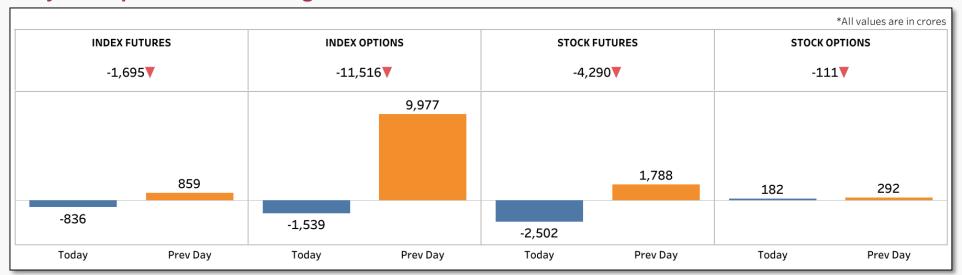


# **Open Interest Trends by Participant**

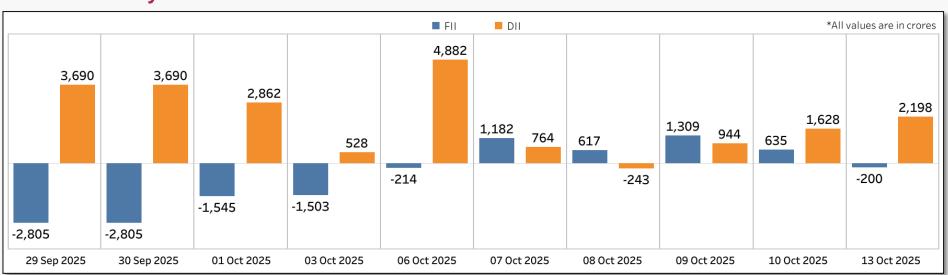




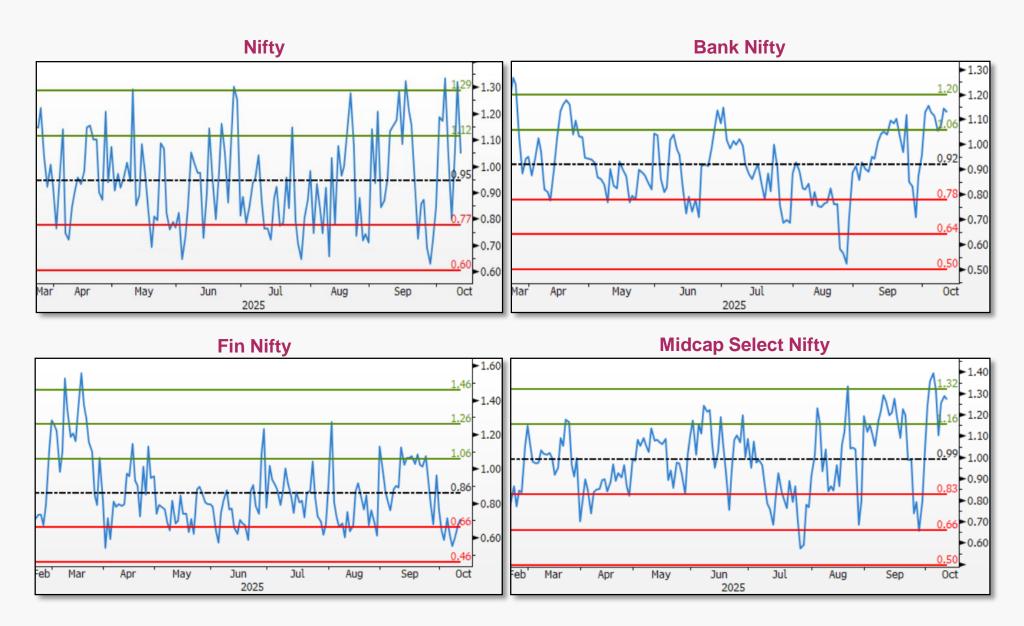
### **Daily Net Open Interest Change**



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



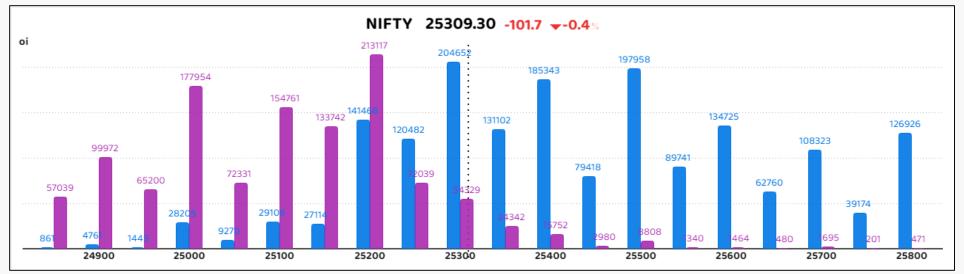




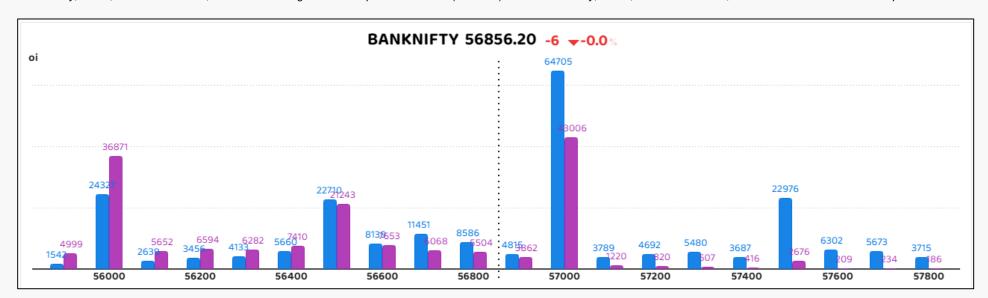


#### Positioning Stack by Strike (Nifty Current Week Expiry & BankNifty Monthly Expiry)





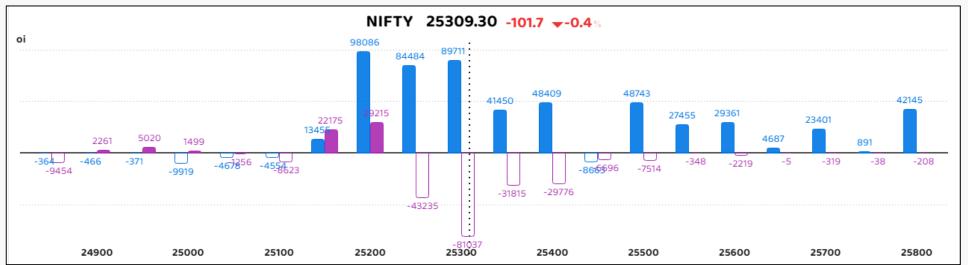
For the Nifty, the 25,300 Call and the 25,200 Put had the highest call and put concentration (contracts). For the Bank Nifty, the 57,000 Call and the 57,000 Put saw the most amount of open interest.



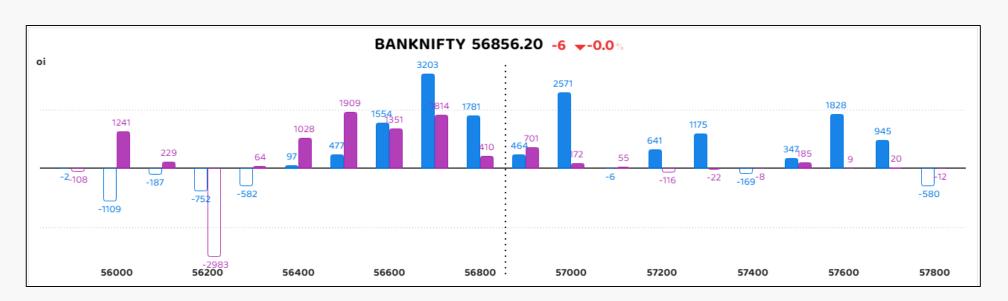


## Open Interest Change (Nifty Current Week Expiry & BankNifty Monthly Expiry)





The largest open interest changes (contracts) were seen at the 25,200 Call and the 25,300 Put





# Stocks with High IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
SBI CARDS & PAYMENTS	920.85	-0.1	29.5	36.9	4.6	77.1
BAJAJ AUTO LTD	9066	1.3	25.2	36.4	2.1	67.2
PIRAMAL PHARMA	197.58	-2.0	35.9	40.1	27.3	66.9
UNO MINDA LTD	1233.3	1.1	32.7	43.6	10.9	66.8
SYNGENE	633.9	-2.7	30.6	38.7	15.7	64.5

### Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
TATA MOTORS	660.75	-2.7	1.3	72.6	1.3	0.0
POWER FINANCE	403.1	-0.2	24.2	51.5	23.8	1.5
NTPC LTD	341.7	0.6	19.3	116.6	16.7	2.6
GAIL INDIA LTD	180.33	0.6	25.2	91.4	22.4	4.0
ADANI PORTS AND	1437.8	2.0	24.7	99.7	19.8	6.1



# **Stocks With High IVP:**

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
SBI CARDS & PAYMENTS	920.85	-0.1	29.5	36.9	4.6	88.4
INFOSYS LTD	1493.2	-1.4	28.0	60.8	3.3	86.5
RBL BANK LTD	290	-0.5	47.7	71.4	10.6	82.5
KAYNES TECHNOLOGY	6838.5	-3.7	40.2	49.4	30.3	82.3
360 ONE WAM LTD	1101.4	0.6	33.6	46.8	22.7	75.4

#### Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
TATA MOTORS	660.75	-2.7	1.3	72.6	1.3	0.0
ALKEM LABORATORIES	5492.5	0.7	18.2	40.1	13.6	1.4
BLUE STAR LTD	1911.7	-1.9	25.8	40.0	23.4	2.9
POWER FINANCE	403.1	-0.2	24.2	51.5	23.8	3.8
MARICO LTD	713.35	-0.1	20.8	38.6	15.0	7.0



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

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
CROM GREAVES	284.5	-1.1	9207	1245	7.4
PAGE INDUSTRIES	41010	-1.5	10963	1866	5.9
UNITED SPIRITS	1316.1	-1.6	6137	1474	4.2
HINDUSTAN ZINC	505.55	1.5	39139	9458	4.1
YES BANK LTD	24.03	0.1	17205	4203	4.1

# Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
IIFL FINANCE LTD	491.25	0.3	2235	2553	1.1
DIXON TECHNOLOGIES	17195	-1.4	26753	24990	0.9
BLUE STAR LTD	1911.7	-1.9	2550	2225	0.9
INDUSIND BANK	759.9	-0.5	18147	14858	0.8
LTIMINDTREE LTD	5498	0.5	8279	6640	0.8



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

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
KAYNES TECHNOLOGY	6838.5	-3.7	21901	21901	100.0
CROM GREAVES	284.5	-1.1	11063	11063	100.0
RAIL VIKAS NIGAM	339.15	-0.8	15561	15727	98.9
TATA ELXSI LTD	5352	-1.0	20613	21009	98.1
UNO MINDA LTD	1233.3	1.1	6384	6615	96.5

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

Ticker	Last Px	Chg (%)	Total Put OI	Highest Put OI	Relative to Highest Put OI
KFIN TECHNOLOGIES	1143.8	6.6	2875	2943	97.7
KAYNES TECHNOLOGY	6838.5	-3.7	9480	9833	96.4
PIRAMAL PHARMA	197.58	-2.0	3037	3219	94.4
MAX HEALTHCARE	1143.3	-1.1	5207	5571	93.5
NUVAMA WEALTH	7199.5	-0.5	3527	3785	93.2



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

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
KFIN TECHNOLOGIES	1143.8	6.6	45214	45214	100.0

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

Ticker	Last Px	Chg (%)	Total Put Vol	Highest PV	Relative to Highest PV
KAYNES TECHNOLOGY	6838.5	-3.7	56002	61463	91.1



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

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
UNO MINDA LTD	1233.3	1.1	6384	3073	2.1
AVENUE SUPERMARTS	4202.6	-2.7	27363	13577	2.0
KAYNES TECHNOLOGY	6838.5	-3.7	21901	11522	1.9
TATA ELXSI LTD	5352	-1.0	20613	10918	1.9
TCS	3007.2	-0.7	145621	89284	1.6

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

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
DIVI LABS LTD	6556	1.3	17844	8185	2.2
FORTIS HEALTHCARE	1095.15	3.3	5167	2595	2.0
PG ELECTROPLAST	583.75	-0.4	8392	4399	1.9
TATA ELXSI LTD	5352	-1.0	8489	4812	1.8
HCL TECH LTD	1494.7	-0.1	23194	13413	1.7



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

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
KFIN TECHNOLOGIES	1143.8	6.6	45214	7021	6.4
TORRENT POWER LTD	1283.6	3.6	22751	5482	4.1
HDFC AMC	5669	2.7	28199	7312	3.9
FORTIS HEALTHCARE	1095.15	3.3	31716	10130	3.1
AVENUE SUPERMART	4202.6	-2.7	82340	28696	2.9

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

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
KFIN TECHNOLOGIES	1143.8	6.6	11700	2726	4.3
SIEMENS LTD	3077.5	-2.2	34872	9533	3.7
TORRENT POWER LTD	1283.6	3.6	5770	1675	3.4
KAYNES TECHNOLOGY	6838.5	-3.7	56002	18135	3.1
FORTIS HEALTHCARE	1095.15	3.3	12812	4177	3.1



# 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	2145300	1.9%	2551	2500	698100	-2.0%	JIOFIN	320	9785400	3.8%	308	300	7132250	-2.6%
ADANIPORTS	1500	1319550	6.4%	1409	1400	1468700	-0.7%	JSWSTEEL	1300	1011150	11.3%	1168	1100	640575	-5.8%
APOLLOHOSP	7700	128125	0.2%	7681	7700	66125	0.2%	KOTAKBANK	2100	1072000	-2.3%	2150	2100	1512000	-2.3%
ASIANPAINT	2500	1144750	6.8%	2340	2300	493250	-1.7%	LT	3800	1392300	0.4%	3784	3700	386400	-2.2%
AXISBANK	1160	3987500	-1.7%	1180	1180	1632500	0.0%	M&M	3600	1248600	4.2%	3455	3400	529200	-1.6%
BAJAJ-AUTO	10000	228525	11.8%	8947	8800	122925	-1.6%	MARUTI	17000	358300	4.5%	16265	16000	272900	-1.6%
BAJAJFINSV	2080	679000	3.8%	2004	1800	977000	-10.2%	MAXHEALTH	1200	637875	3.8%	1156	1060	458850	-8.3%
BAJFINANCE	1100	2028750	7.4%	1024	1020	1656000	-0.4%	NESTLEIND	1200	877500	0.0%	1200	1180	436500	-1.6%
BEL	420	9718500	1.6%	414	410	5714250	-0.8%	NTPC	345	9337500	1.6%	340	340	1951500	0.1%
BHARTIARTL	1960	3821375	1.0%	1940	1900	987050	-2.1%	ONGC	250	19165500	1.5%	246	240	2929500	-2.6%
CIPLA	1700	1084125	8.8%	1562	1500	384375	-4.0%	POWERGRID	300	6938800	3.8%	289	290	1953200	0.3%
COALINDIA	400	4666950	4.0%	385	380	2465100	-1.2%	RELIANCE	1400	10743000	1.3%	1382	1400	4020000	1.3%
DRREDDY	1320	1023125	4.4%	1264	1240	333750	-1.9%	SBILIFE	1800	581250	-0.6%	1810	1800	209625	-0.6%
EICHERMOT	7000	384125	0.5%	6965	6500	217700	-6.7%	SBIN	900	7035750	2.2%	881	870	3138000	-1.2%
ETERNAL	335	10347475	-3.8%	348	330	6001875	-5.3%	SHRIRAMFIN	700	1126125	5.3%	665	660	997425	-0.8%
GRASIM	2900	347000	3.2%	2811	2700	142000	-3.9%	SUNPHARMA	1680	1506050	0.5%	1671	1500	648900	-10.2%
HCLTECH	1500	1962450	0.3%	1496	1400	1141700	-6.4%	TATACONSUM	1240	429550	10.1%	1127	1100	200200	-2.4%
HDFCBANK	1000	5645200	1.9%	981	950	2203300	-3.2%	TATAMOTORS	800	11192000	17.8%	679	600	3073600	-11.6%
HDFCLIFE	800	1997600	7.1%	747	740	636900	-1.0%	TATASTEEL	180	26741000	3.5%	174	165	10395000	-5.1%
HINDALCO	800	3362800	3.4%	774	750	1663200	-3.1%	TCS	3200	3691800	5.7%	3028	3000	1529500	-0.9%
HINDUNILVR	2600	993000	2.8%	2529	2500	428100	-1.1%	TECHM	1500	778200	2.9%	1457	1400	636000	-3.9%
ICICIBANK	1400	6010900	1.4%	1380	1400	2629900	1.4%	TITAN	3600	711025	1.9%	3532	3500	420350	-0.9%
INDIGO	5800	420150	1.1%	5735	5500	180450	-4.1%	TRENT	5500	1054500	17.2%	4691	4700	427300	0.2%
INFY	1560	6452400	3.0%	1515	1400	2246400	-7.6%	ULTRACEMCO	13000	129300	5.9%	12281	12000	52000	-2.3%
ITC	410	9644800	1.8%	403	400	4707200	-0.7%	WIPRO	250	5382000	0.5%	249	240	4695000	-3.5%



- 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

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

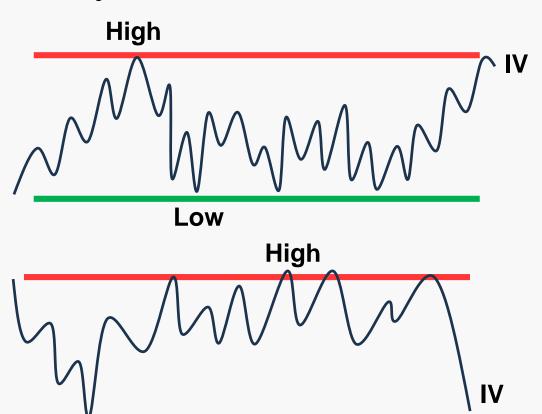


- Volume: Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- Open Interest: The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the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

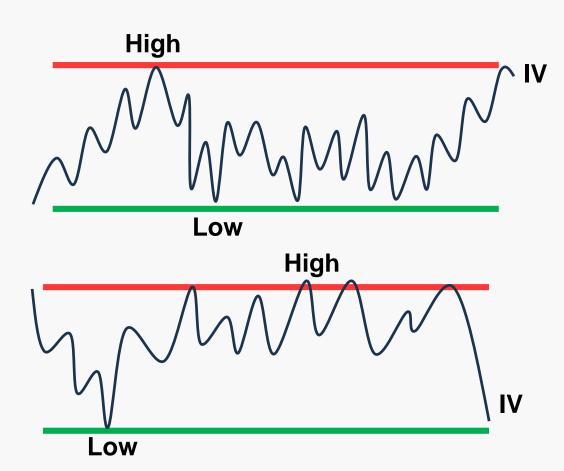


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

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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