



Daily Derivatives Report

Nifty Futures

	Value	Change
Most recent settlement	24,251	0.4%▼
Open Interest (OI)	1,74,72,975	3.0%▲
Change in OI (abs)	1,74,72,975	5,10,250▲
Premium / Discount (Abs)	171	5▲
Inference	Short Build Up	

Bank Nifty Futures

	Value	Change
Most recent settlement	57,887	0.05%▲
Open interest (OI)	21,30,300	1.1%▼
Change in OI (abs)	21,30,300	23,490▼
Premium / Discount (Abs)	-138	500▼
Inference	Short Covering	

Volatility Insights

	Value	Change
India VIX Index	11.19	0.51▲
Nifty ATM IV (%)	9.98	0.69▲
Bank Nifty ATM IV (%)	10.64	0.08▲
PCR (Nifty)	0.91	0.02▲
PCR (Bank Nifty)	1.14	0.01▼

The FII Long Ratio in Index Futures **Drop** to **9.4 %**, **down** from **9.6%** in the previous session.

Single Stock Futures Movers

Long Buildup (Open Interest Higher + Price Higher)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
ATHERENERG	20,90,250	25.4%	1653.2	1.8%
SAGILITY	5,26,68,000	8.6%	47.28	1.4%
KEI	18,38,900	5.1%	5533.9	0.5%
AUROPARMA	1,09,63,700	4.7%	1692.4	1.8%
MOTHERSON	14,63,08,500	4.5%	167.33	0.5%

Short Buildup (Open Interest Higher + Price Lower)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
ADANIENSOL	2,14,66,350	23.6%	1458.6	-8.0%
ETERNAL	18,18,84,700	22.9%	323.2	-1.3%
LAURUSLABS	2,01,18,650	18.3%	1876.3	-1.9%
ADANIENT	1,77,97,164	15.5%	2961.7	-6.8%
KAYNES	39,46,800	9.8%	3668.4	-7.5%

Short Covering (Open Interest Lower + Price Higher)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
ASTRAL	62,52,600	-11.0%	1567.7	1.9%
SBICARD	2,13,26,400	-7.2%	665.55	3.1%
CAMS	1,00,62,525	-4.6%	790.8	3.0%
POLYCAB	21,97,625	-3.8%	9233.5	1.2%
SUPREMEIND	23,71,425	-3.1%	3690.7	0.5%

Long Unwinding (Open Interest Lower + Price Lower)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
360ONE	33,18,500	-7.4%	1183.1	-1.8%
PREMIERENE	92,74,850	-2.9%	1015.7	-0.5%
COFORGE	1,27,16,700	-2.6%	1988.9	-1.8%
LICI	5,11,44,800	-2.4%	418.8	-0.5%
LICHSGFIN	4,09,36,000	-1.7%	539.55	-0.9%

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

Data Source : NSEBHAVCOPY

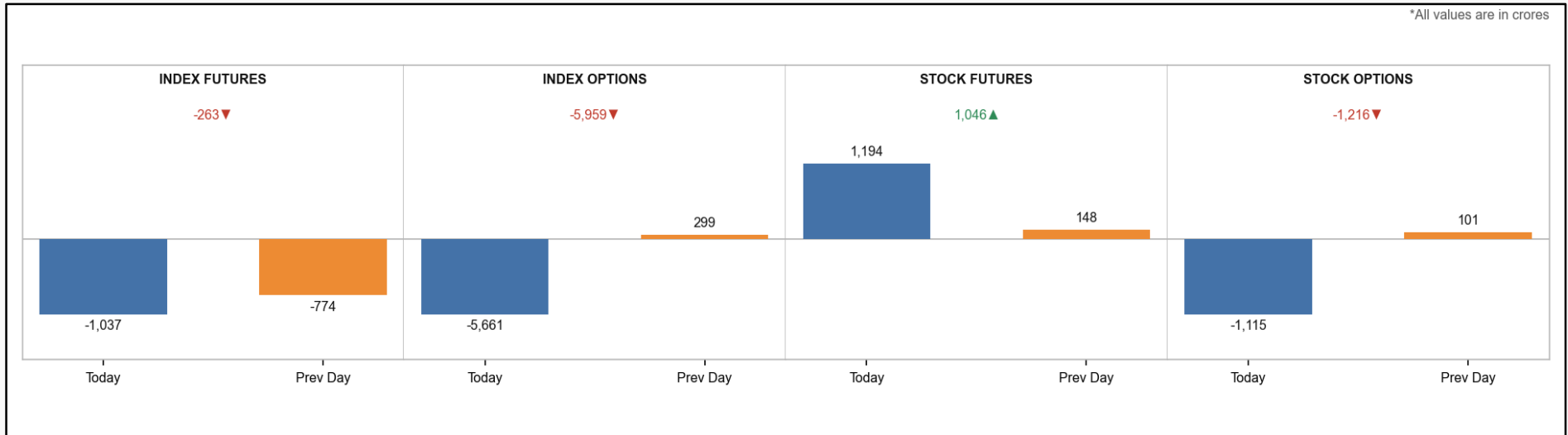
Open Interest Trends by Participant

▲ and ▼ indicate positive and negative changes, respectively

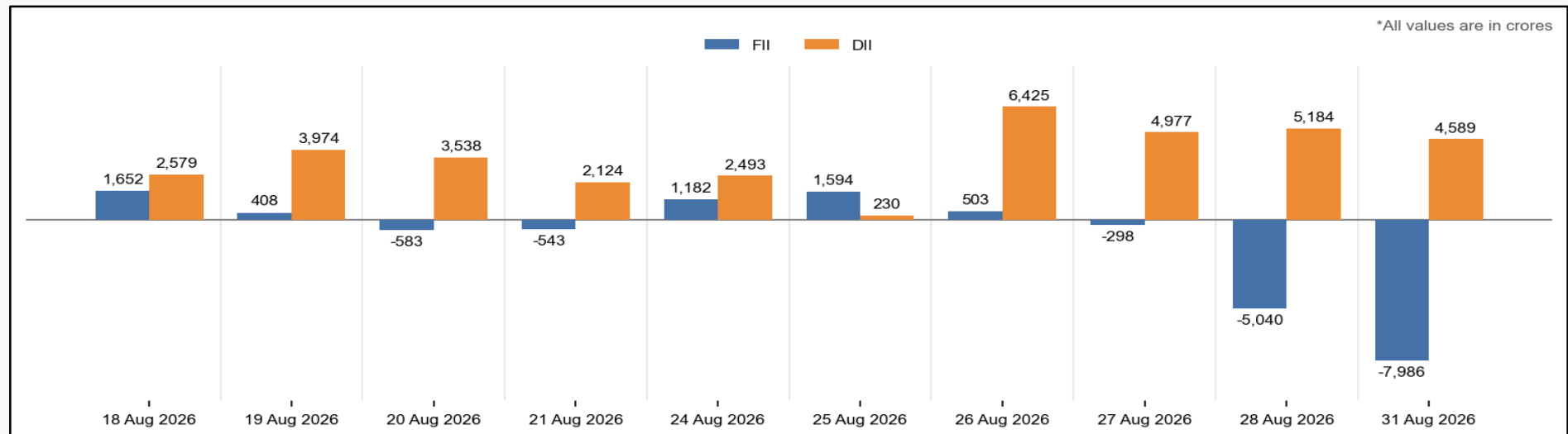
DII							
INDEX CALL		INDEX FUT		INDEX PUT		STK FUT	
-65	▼	-625	▼	-3,680	▼	-29,243	▼
25		75	700	975			
-40				-2,705			
						-56,855	-27,612
Net O/S		Net O/S		Net O/S		Net O/S	
4,310		20,288		31,784		-42,20,839	
Today	Prev Day	Today	Prev Day	Today	Prev Day	Today	Prev Day

Pro							
INDEX CALL		INDEX FUT		INDEX PUT		STK FUT	
-2,71,097	▼	4,007	▲	11,530	▲	-2,310	▼
1,62,095		5,347 1,340		6,638		10,596 12,906	
-1,09,002				-4,892			
Net O/S 25,471		Net O/S 10,808		Net O/S 1,02,855		Net O/S 4,64,336	
Today	Prev Day	Today	Prev Day	Today	Prev Day	Today	Prev Day

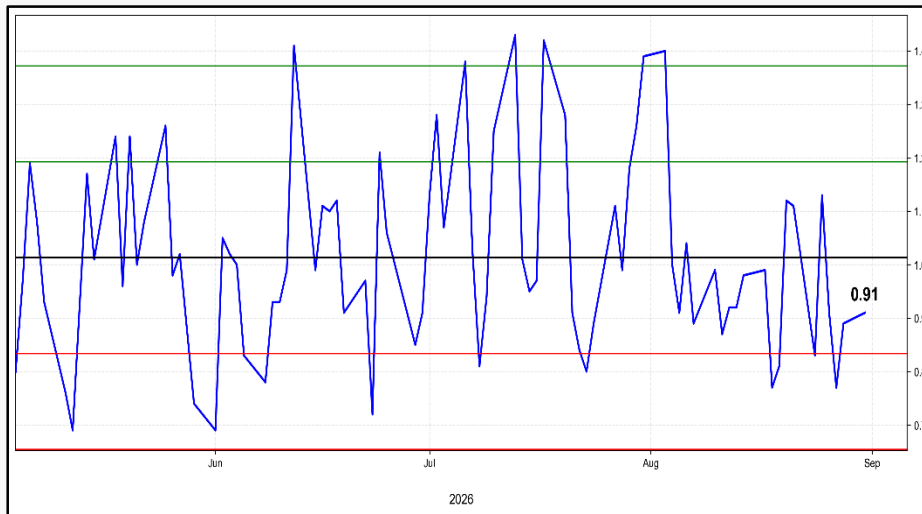
Daily Net Open Interest Change



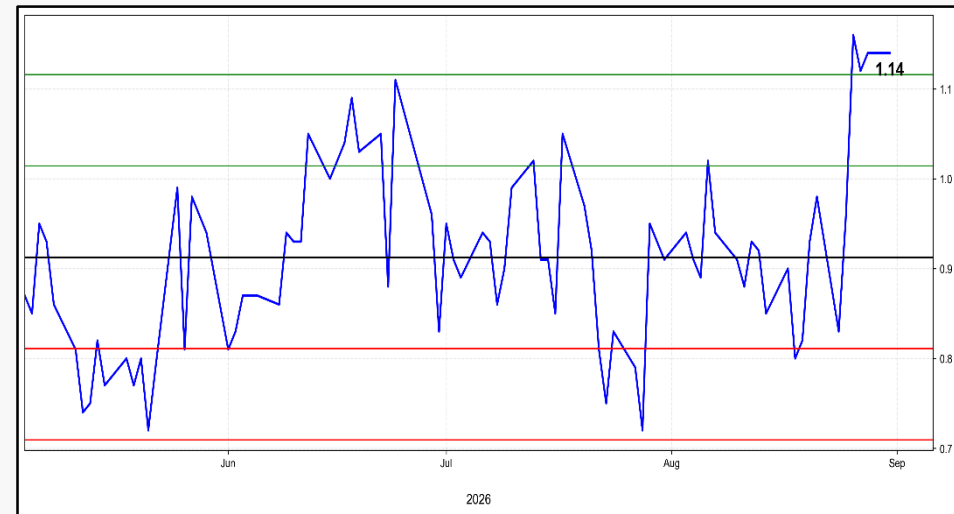
DII and FII Daily Cash Market Flows



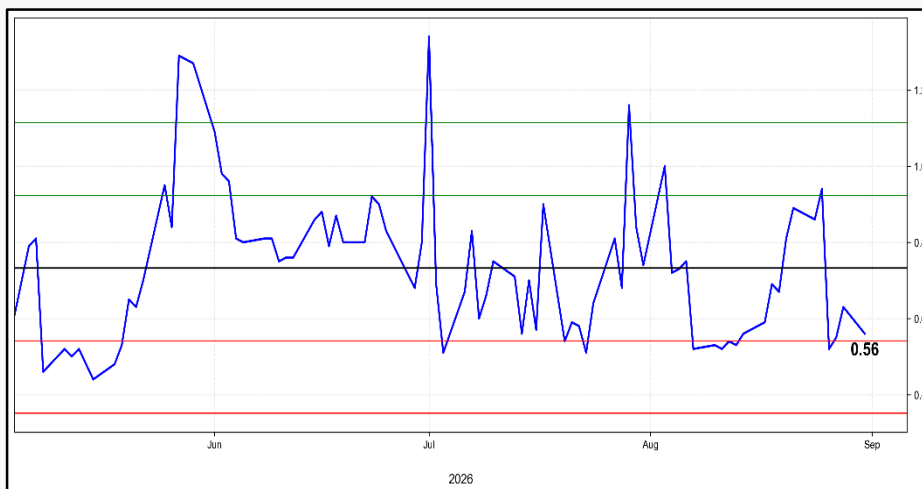
Nifty



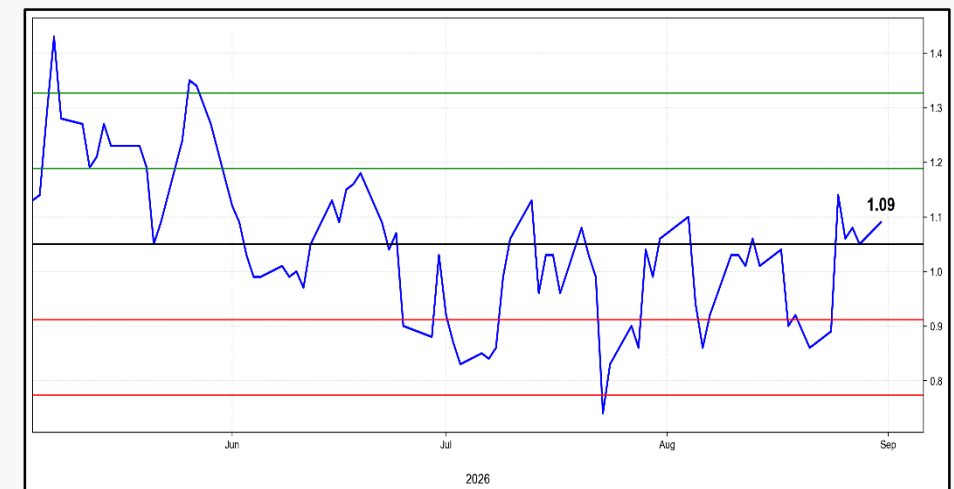
Bank Nifty



Fin Nifty



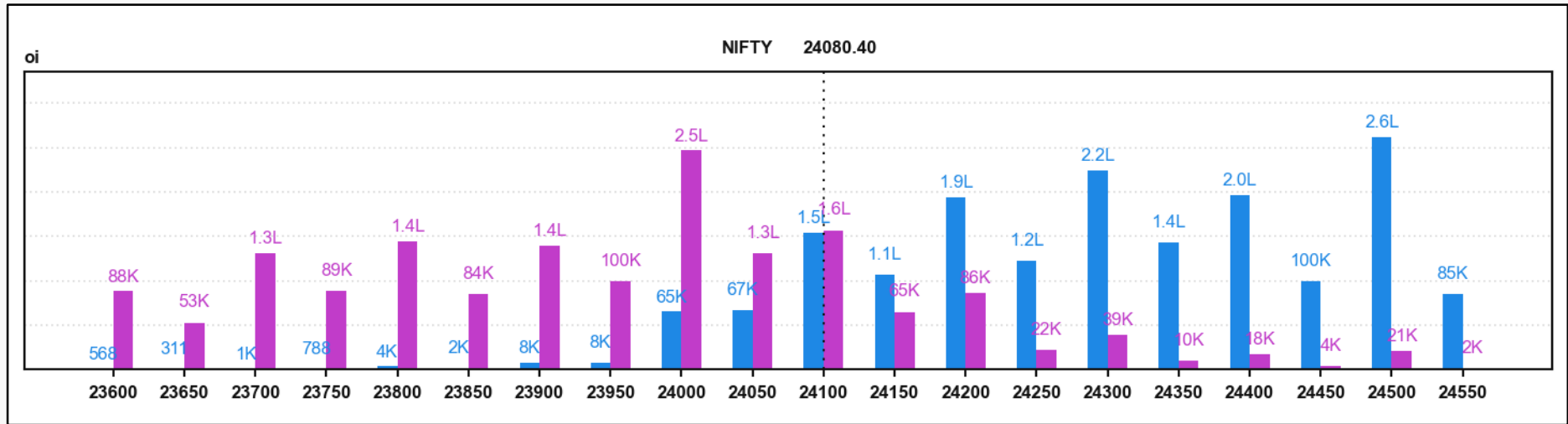
Midcap Select Nifty



On the day immediately post expiration, PCR values will differ due to the way open interest data for the expired series is treated for the PCR calculation

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

Call  Put 



For Nifty, the 24,500 Call and 24,500 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.

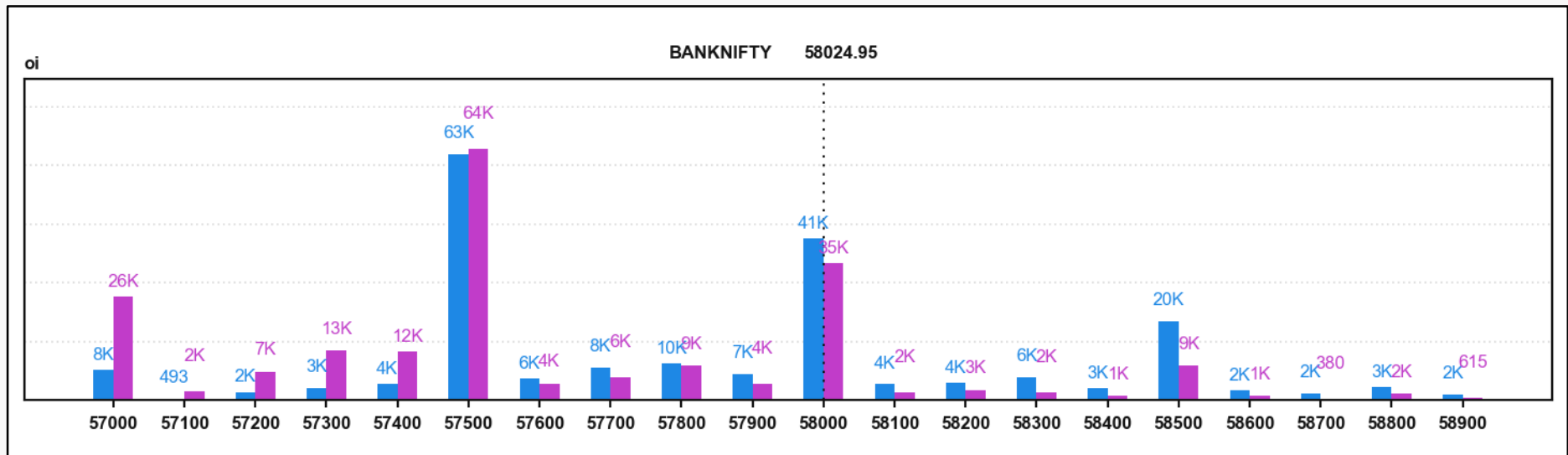
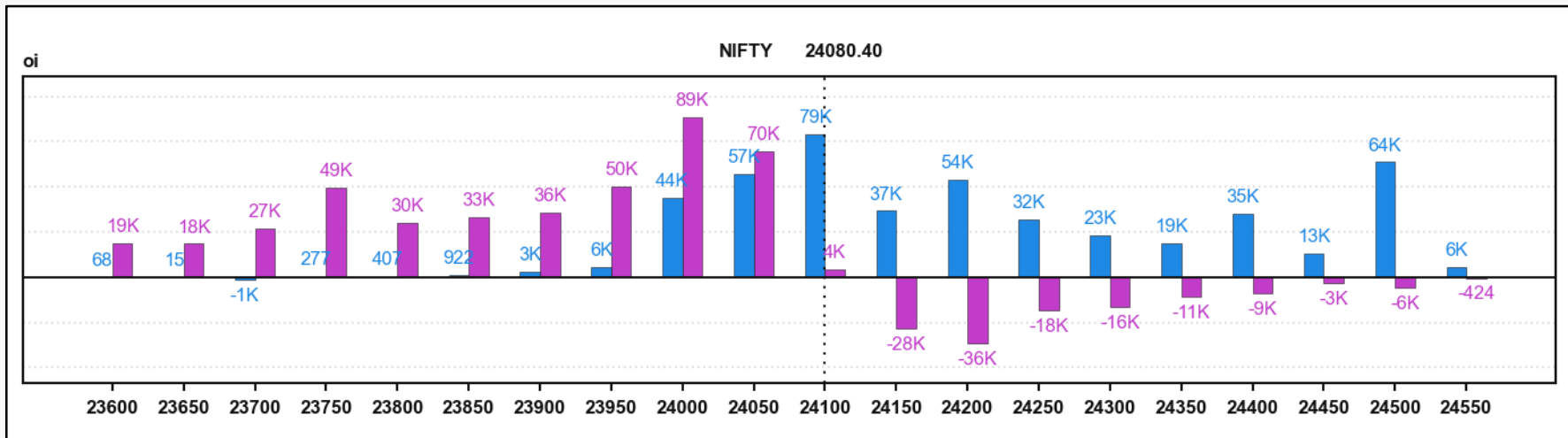


Chart quotes show front-month Nifty and Bank Nifty futures levels along with absolute and percentage change from prior trading session

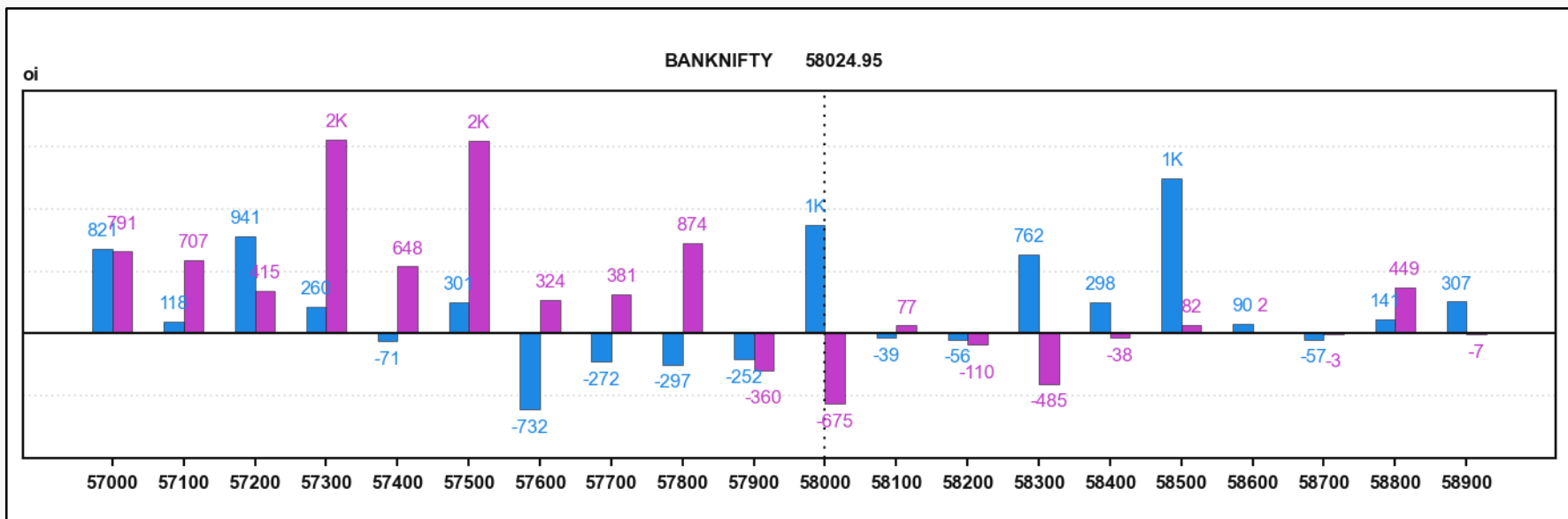
Data Source : NSE, MYFNO

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

Call ■ Put ■



The largest open interest changes (contracts) were seen at the 24,500 Call and the 24,000 Put



For the Bank Nifty, the biggest open interest changes were seen at the 58,500 Call & the 57,300 Put

Stocks With High Call Volume To Put Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
MANKIND	2,419.2	1.5	6,247.0	1,151.0	5.4
NYKAA	349.6	4.2	6,918.0	1,316.0	5.3
IREDA	116.3	-0.6	4,686.0	1,192.0	3.9
JIOFIN	241.4	1.3	25,434.0	6,687.0	3.8
OIL	483.2	0.1	12,698.0	3,341.0	3.8

Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
TITAN	5,102.4	-1.3	12,346.0	13,825.0	1.1
TECHM	1,628.0	-0.8	6,289.0	6,406.0	1.0
KAYNES	3,684.9	-6.5	34,671.0	34,939.0	1.0
MUTHOOTFIN	2,978.2	-3.7	19,466.0	19,423.0	1.0
HAVELLS	1,244.1	1.7	3,266.0	3,218.0	1.0

Call Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
TATAPOWER	347.0	-1.4	27,869.0	33,212.0	83.9
VBL	400.5	-3.3	24,534.0	29,354.0	83.6
HDFCBANK	709.0	-1.6	2,29,651.0	2,78,823.0	82.4
IREDA	116.3	-0.6	10,831.0	13,829.0	78.3
LAURUSLABS	1,915.0	-1.2	12,158.0	15,712.0	77.4

Put Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Put OI	Highest Put OI	Relative to Highest Put OI
VBL	400.5	-3.3	13,554.0	13,703.0	98.9
KOTAKBANK	419.4	-1.0	20,019.0	21,396.0	93.6
TATAPOWER	347.0	-1.4	18,493.0	22,687.0	81.5
TATASTEEL	184.3	-1.2	23,284.0	28,893.0	80.6
BDL	1,275.0	-2.4	9,957.0	12,475.0	79.8

Call Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
HDFCBANK	709.0	-1.6	6,59,167.0	6,11,044.0	100.0
SBICARD	644.8	0.6	37,117.0	71,568.0	51.9
ADANIENT	2,859.2	-9.8	85,770.0	1,86,427.0	46.0
ADANIENSOL	1,417.4	-10.4	31,360.0	85,351.0	36.7
AUROPHARMA	1,717.0	4.4	35,295.0	1,04,564.0	33.8

Put Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Put Vol	Highest PV	Relative to Highest PV
ADANIENT	2,859.2	-9.8	64,967.0	73,491.0	88.4
HDFCBANK	709.0	-1.6	3,87,506.0	4,62,533.0	83.8
BSE	3,282.0	-3.6	95,586.0	1,58,619.0	60.3
SBICARD	644.8	0.6	20,573.0	34,849.0	59.0
ADANIPORTS	1,593.1	-6.7	26,289.0	49,912.0	52.7

Call Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
ADANIENT	2,859.2	-9.8	24,349.0	15,625.7	1.6
PREMIERENE	1,036.2	2.2	7,350.0	4,987.8	1.5
TATAPOWER	347.0	-1.4	27,869.0	20,527.2	1.4
ADANIENSOL	1,417.4	-10.4	10,371.0	7,810.0	1.3
VBL	400.5	-3.3	24,534.0	19,766.6	1.2

Put Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
PREMIERENE	1,036.2	2.2	5,120.0	2,455.3	2.1
KOTAKBANK	419.4	-1.0	20,019.0	13,132.2	1.5
VBL	400.5	-3.3	13,554.0	9,091.6	1.5
TATAPOWER	347.0	-1.4	18,493.0	14,848.2	1.2
ADANIENSOL	1,417.4	-10.4	4,730.0	3,826.2	1.2

Call Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
ADANIENT	2,859.2	-9.8	85,770.0	23,895.8	3.6
HDFCBANK	709.0	-1.6	6,59,167.0	1,95,452.3	3.4
AUROPHARMA	1,717.0	4.4	35,295.0	10,616.8	3.3
SBICARD	644.8	0.6	37,117.0	11,565.6	3.2
CAMS	782.0	2.7	31,828.0	10,450.8	3.0

Put Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
ADANIENT	2,859.2	-9.8	64,967.0	12,189.4	5.3
HDFCBANK	709.0	-1.6	3,87,506.0	75,567.4	5.1
ADANIENSOL	1,417.4	-10.4	19,341.0	4,927.5	3.9
SBICARD	644.8	0.6	20,573.0	6,175.8	3.3
ANGELONE	286.9	-2.4	13,856.0	4,623.6	3.0

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	3000	1538820	4.9%	2859	3200	557127	11.9%	JIOFIN	250	15049400	3.6%	241	240	8022900	-0.6%
ADANIPTS	1700	1404575	6.7%	1593	1600	1085850	0.4%	JSWSTEEL	1400	1102275	7.1%	1308	1300	1183950	-0.6%
APOLLOHOSP	9300	142375	4.5%	8899	8300	154125	-6.7%	KOTAKBANK	420	8434000	0.1%	419	400	7394000	-4.6%
ASIANPAINT	2900	360500	9.3%	2654	2560	323750	-3.5%	LT	4100	1239350	1.4%	4045	4000	729400	-1.1%
AXISBANK	1300	3377500	0.0%	1300	1240	2141250	-4.6%	M&M	3400	1039600	3.6%	3282	3200	460200	-2.5%
BAJAJ-AUTO	12000	195825	-1.1%	12130	11500	110775	-5.2%	MARUTI	14000	258200	3.3%	13547	13500	121350	-0.3%
BAJAJFINSV	2100	635100	3.9%	2021	1900	475500	-6.0%	MAXHEALTH	1000	509250	-4.0%	1042	1000	567000	-4.0%
BAJFINANCE	1100	2962500	4.1%	1057	1000	1703250	-5.4%	NESTLEIND	1500	396000	0.2%	1497	1400	179500	-6.4%
BEL	420	5202675	1.3%	414	410	5263950	-1.1%	NTPC	340	7329000	3.8%	327	340	3325500	3.8%
BHARTIARTL	2000	2648125	10.4%	1812	1900	1920900	4.9%	ONGC	240	9047250	3.5%	232	225	3856500	-2.9%
CIPLA	1480	752250	5.0%	1409	1300	939675	-7.7%	POWERGRID	290	5758900	10.0%	264	270	3444700	2.4%
COALINDIA	400	6378750	-0.4%	402	400	4059450	-0.4%	RELIANCE	1300	7518000	1.8%	1277	1300	6366000	1.8%
DRREDDY	1200	1308750	4.0%	1154	1080	1116875	-6.4%	SBILIFE	1800	503250	3.4%	1741	1660	254250	-4.6%
EICHERMOT	9000	154900	13.2%	7954	7500	274300	-5.7%	SBIN	1100	7515000	3.8%	1060	1000	4097250	-5.7%
ETERNAL	340	12042550	3.6%	328	310	4137050	-5.5%	SHRIRAMFIN	1100	1469325	-0.9%	1110	1100	1461900	-0.9%
GRASIM	3540	265250	5.0%	3371	3040	136000	-9.8%	SUNPHARMA	1960	681800	-1.2%	1985	1860	583800	-6.3%
HCLTECH	1350	654000	2.9%	1312	1300	540400	-0.9%	TATACONSUM	1140	721050	9.9%	1038	950	776600	-8.4%
HDFCBANK	750	23494250	5.8%	709	730	9859850	3.0%	TMPV	320	5510400	3.6%	309	320	4252800	3.6%
HDFCLIFE	570	2466200	4.9%	543	510	2446400	-6.1%	TATASTEEL	190	19676250	3.1%	184	185	8676250	0.4%
HINDALCO	1100	2422700	8.3%	1015	1000	1911700	-1.5%	TCS	2400	1265400	0.0%	2399	2800	978525	16.7%
HINDUNILVR	2100	1871100	6.7%	1967	2000	993600	1.7%	TECHM	1640	540600	0.7%	1628	1440	440400	-11.5%
ICICIBANK	1470	2165100	1.1%	1454	1440	1465100	-1.0%	TITAN	5400	328125	5.8%	5102	5000	320775	-2.0%
INDIGO	5400	466950	3.2%	5234	5200	337500	-0.6%	TRENT	3000	983025	4.2%	2880	2900	344250	0.7%
INFY	1160	4226000	2.3%	1134	1100	2153200	-3.0%	ULTRACEMCO	11760	104750	2.7%	11450	11500	37700	0.4%
ITC	270	14788425	5.7%	256	270	9920475	5.7%	WIPRO	200	9342000	8.4%	185	180	6837000	-2.4%

If distance to call strike from current market price < distance to put strike from current market price, then the %Away for the call strike will be colored green

If distance to put strike from current market price < distance to call strike from current market price, then the %Away for the put strike will be colored red

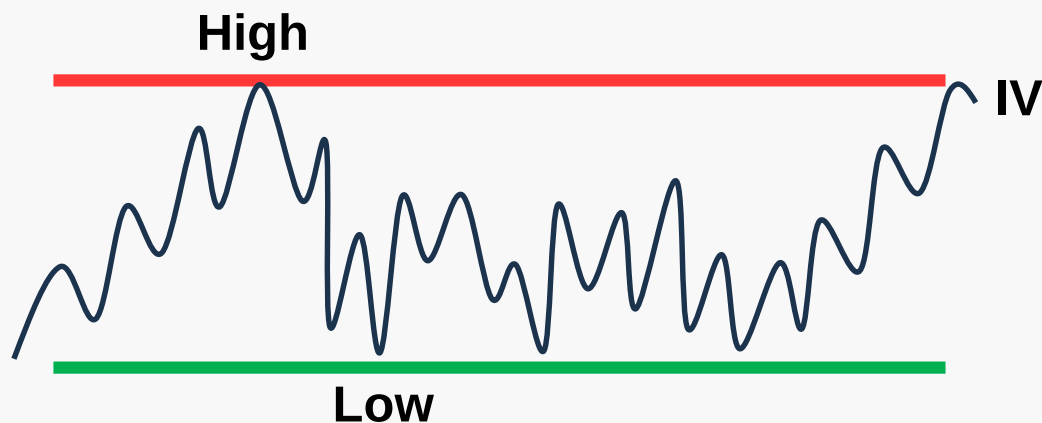
If distance to call strike from current market price = distance to put strike from current market price, then the %Away columns will be uncolored

- 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**

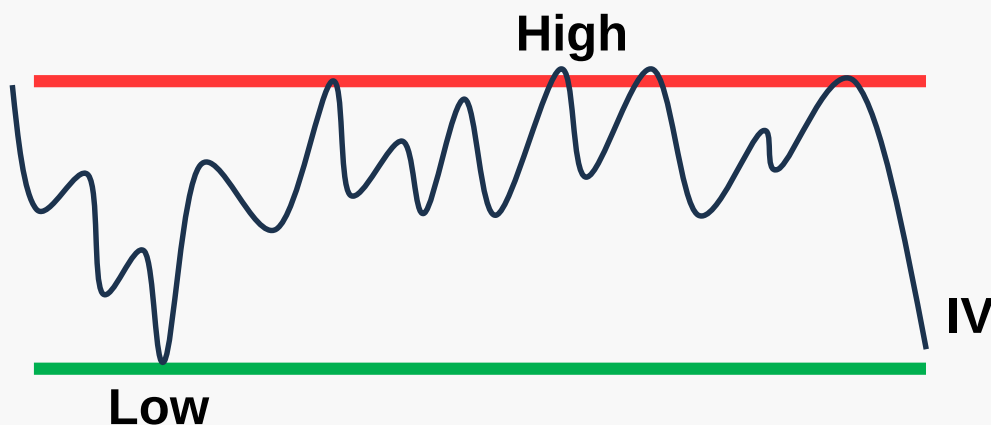
**ATM IV is the midpoint of the IV for the ATM call and put respectively*

- **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

- **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

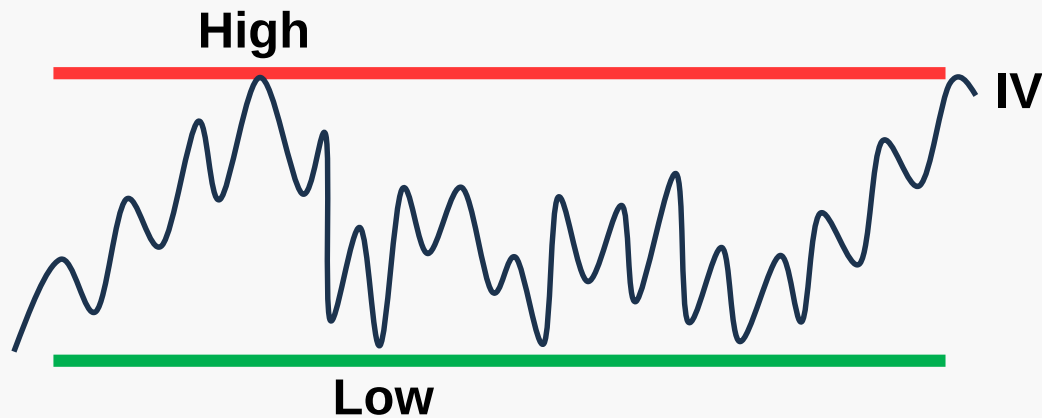


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

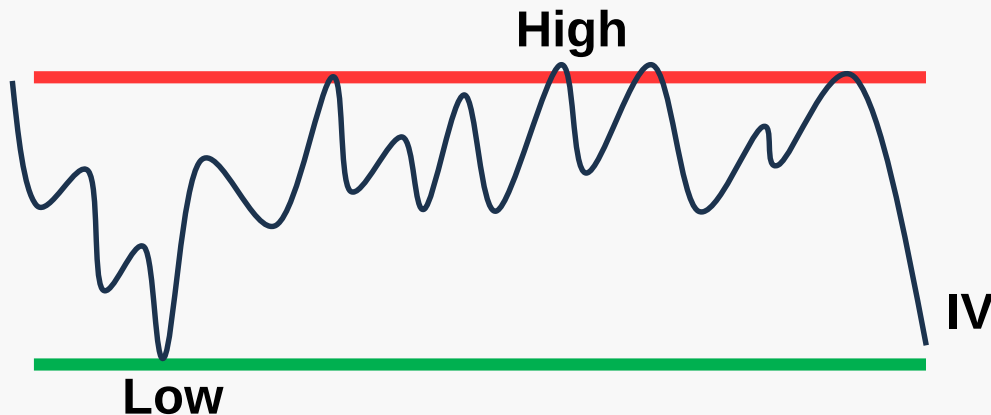


In this chart, notice that today's IV is close to the lowest low seen in the last 12 months. This means that IV for this option is cheap today compared to where it has traded over the last one year.

- **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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