



Daily Derivatives Report

Nifty Futures

	Value	Change
Most recent settlement	26,213	0.5% ▼
Open Interest (OI)	1,57,90,000	4.0% ▲
Change in OI (abs)	1,57,90,000	6,04,475 ▲
Premium / Discount (Abs)	181	22 ▲
Inference	Short Build Up	

Bank Nifty Futures

	Value	Change
Most recent settlement	59,665	0.4% ▼
Open interest (OI)	16,69,625	1.3% ▼
Change in OI (abs)	16,69,625	22,110 ▼
Premium / Discount (Abs)	392	159 ▲
Inference	Long Unwinding	

Volatility Insights

	Value	Change
India VIX Index	11.2	0.4 ▼
Nifty ATM IV (%)	9.72	1.2 ▼
Bank Nifty ATM IV (%)	10.55	0.1 ▲
PCR (Nifty)	0.94	0.18 ▼
PCR (Bank Nifty)	1.03	0.10 ▼

The FII Long Ratio in Index Futures decreased to 15.9% from 19% .

Single Stock Futures Movers

Long Buildup (Open Interest Higher + Price Higher)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
POWERINDIA	2,16,600	14.9%	22755	2.4%
SHREECEM	2,95,925	7.9%	26720	0.5%
ANGELONE	31,30,750	7.5%	2753	0.4%
POLICYBZR	78,52,600	5.2%	1876.9	0.0%
ASIANPAINT	1,12,17,500	3.7%	2,967.50	3.1%

Short Buildup (Open Interest Higher + Price Lower)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
CAMS	19,68,000	6.8%	3865.8	-1.7%
BDL	50,26,150	5.6%	1532.5	-0.1%
INDIANB	1,20,13,000	5.5%	861.85	-3.0%
HDFCAMC	47,81,700	5.3%	2614.7	-1.7%
KPITTECH	34,17,225	5.3%	1261.4	-0.4%

Short Covering (Open Interest Lower + Price Higher)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
BANKBARODA	8,99,43,750	-5.1%	297.95	0.3%
CYIENT	37,17,475	-4.1%	1183.7	1.1%
BOSCHLTD	2,16,400	-3.7%	36805	0.6%
NATIONALUM	6,99,56,250	-3.4%	266.1	0.2%
CANBK	13,02,61,500	-3.4%	152.34	0.8%

Long Unwinding (Open Interest Lower + Price Lower)				
Symbol	Open Interest	Chg (%)	Price	Chg (%)
MUTHOOTFIN	25,88,850	-3.3%	3789.2	-0.8%
SONACOMS	1,34,54,875	-3.0%	508.5	-0.6%
IIFL	1,22,80,950	-2.9%	583.6	-1.2%
PIIND	23,16,650	-2.7%	3395.8	-0.3%
NUVAMA	3,73,325	-2.7%	7303	-2.5%

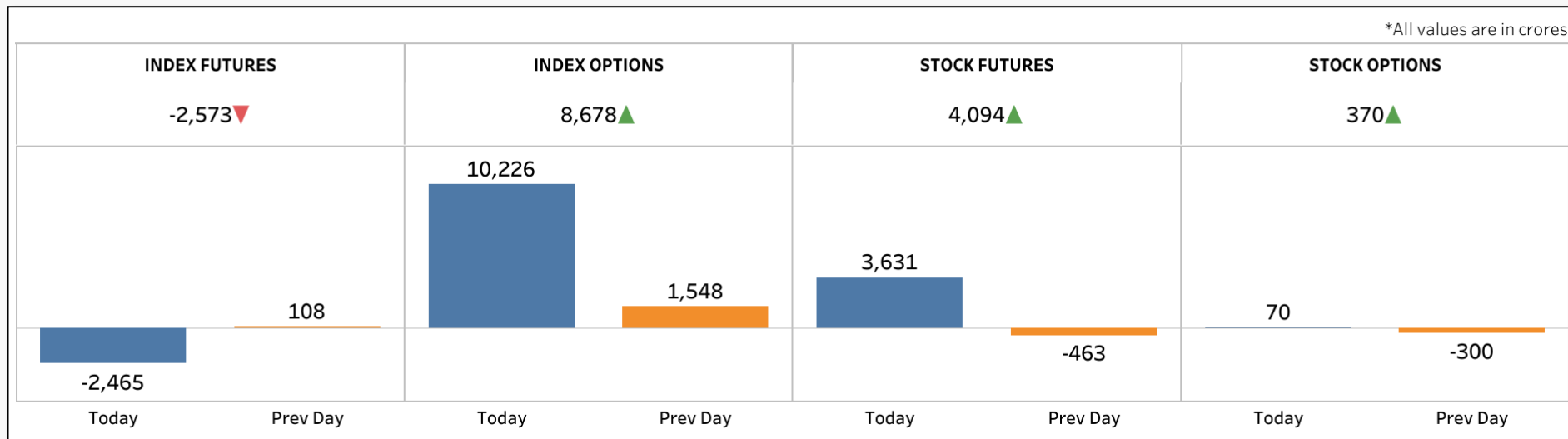
For an explanation of all the contents in this report, kindly click on the hyperlink at the top right which will take you to the end-of-report appendix

Open Interest Trends by Participant

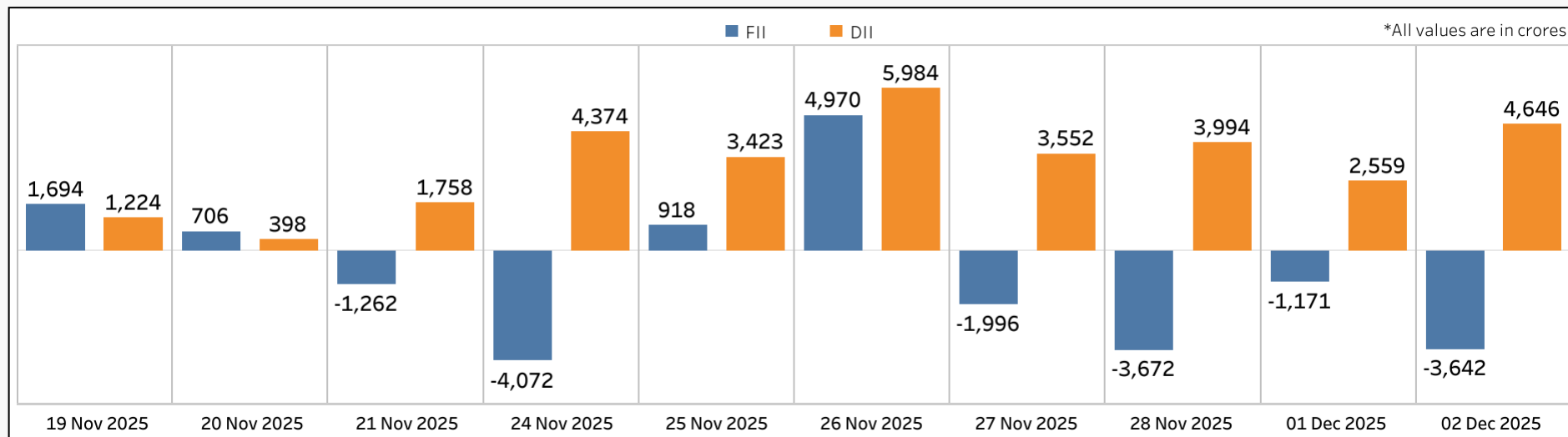
▲ and ▼ indicate positive and negative absolute changes, respectively

FII				DII			
INDEX CALL	INDEX FUT	INDEX PUT	STK FUT	INDEX CALL	INDEX FUT	INDEX PUT	STK FUT
-5,607 ▼	-13,115 ▼	-14,022 ▼	58,948 ▲	1,000 ▲	-6,007 ▼	0	-122,412 ▼
Net O/S -26,530 Today Prev Day	Net O/S -99,859 Today Prev Day	Net O/S 265,296 Today Prev Day	Net O/S 1,371,746 Today Prev Day	Net O/S 2,950 Today Prev Day	Net O/S 34,831 Today Prev Day	Net O/S 27,294 Today Prev Day	Net O/S -4,503,760 Today Prev Day
Clients				Pro			
INDEX CALL	INDEX FUT	INDEX PUT	STK FUT	INDEX CALL	INDEX FUT	INDEX PUT	STK FUT
-131,819 ▼	15,011 ▲	75,013 ▲	-9,549 ▼	136,424 ▲	4,111 ▲	-60,990 ▼	73,013 ▲
Net O/S 17,890 Today Prev Day	Net O/S 75,400 Today Prev Day	Net O/S -456,076 Today Prev Day	Net O/S 2,666,893 Today Prev Day	Net O/S 5,691 Today Prev Day	Net O/S -10,372 Today Prev Day	Net O/S 163,486 Today Prev Day	Net O/S 465,121 Today Prev Day

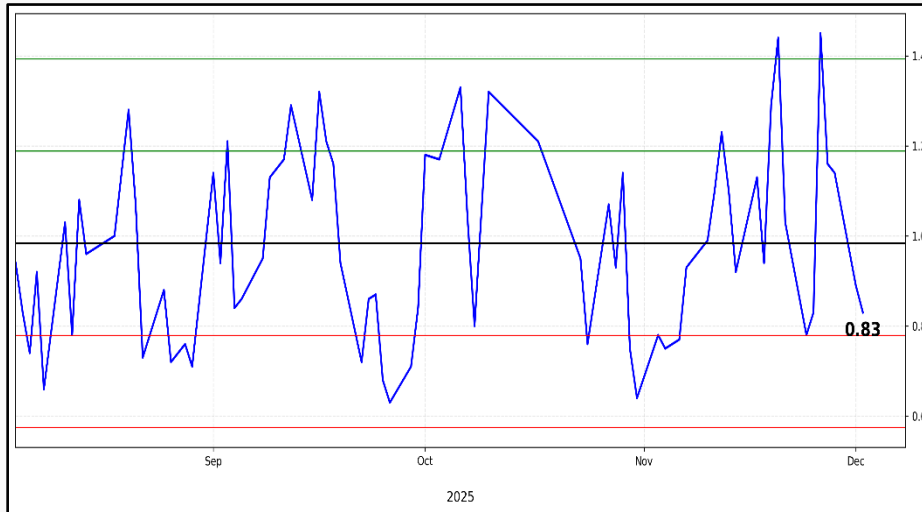
Daily Net Open Interest Change



DII and FII Daily Cash Market Flows



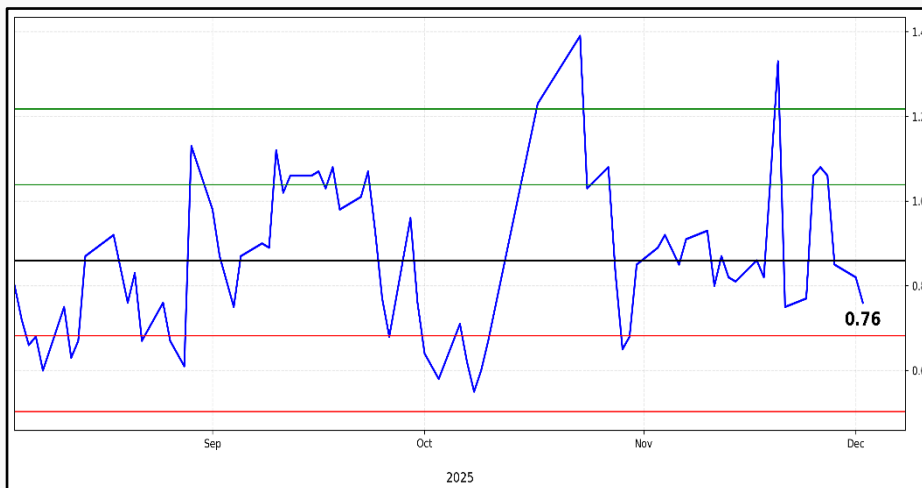
Nifty



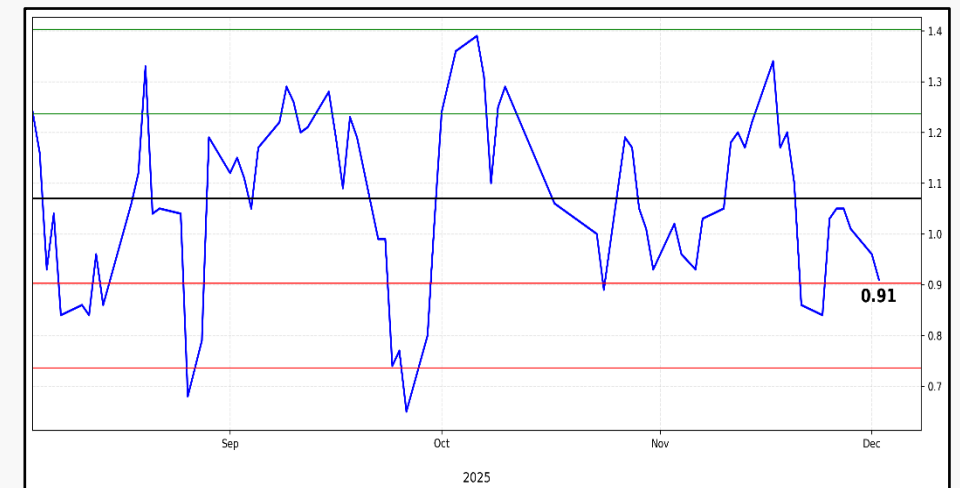
Bank Nifty



Fin Nifty

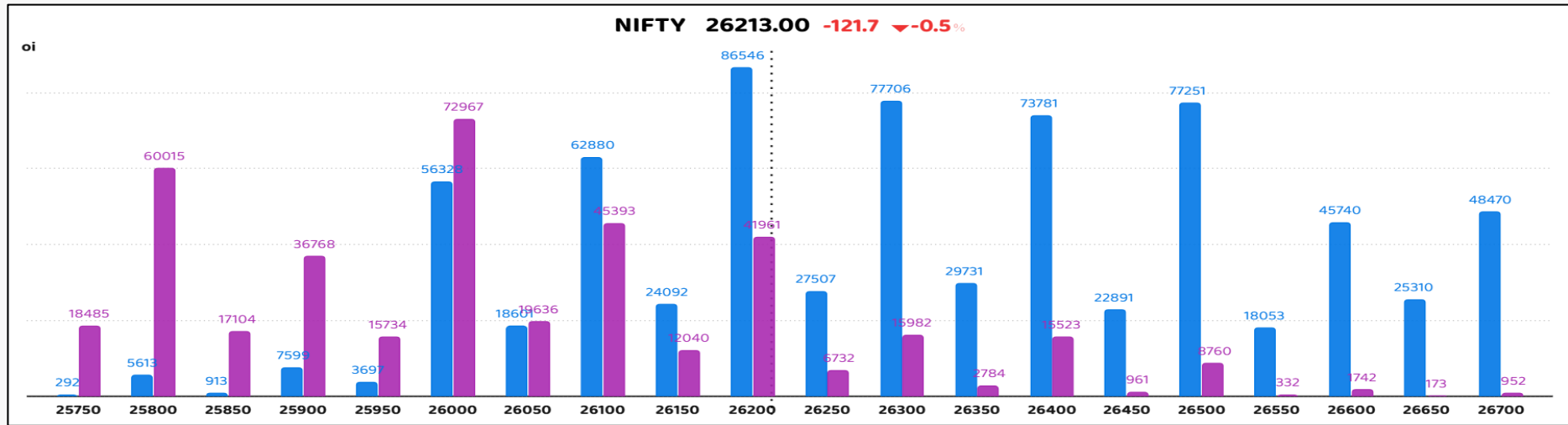


Midcap Select Nifty



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

Call  Put 



For Nifty, the 26,200 Call and 26,000 Put had the highest call and put concentration (contracts). For the Bank Nifty, the 60,000 Call and the 59,000 Put saw the most amount of open interest.

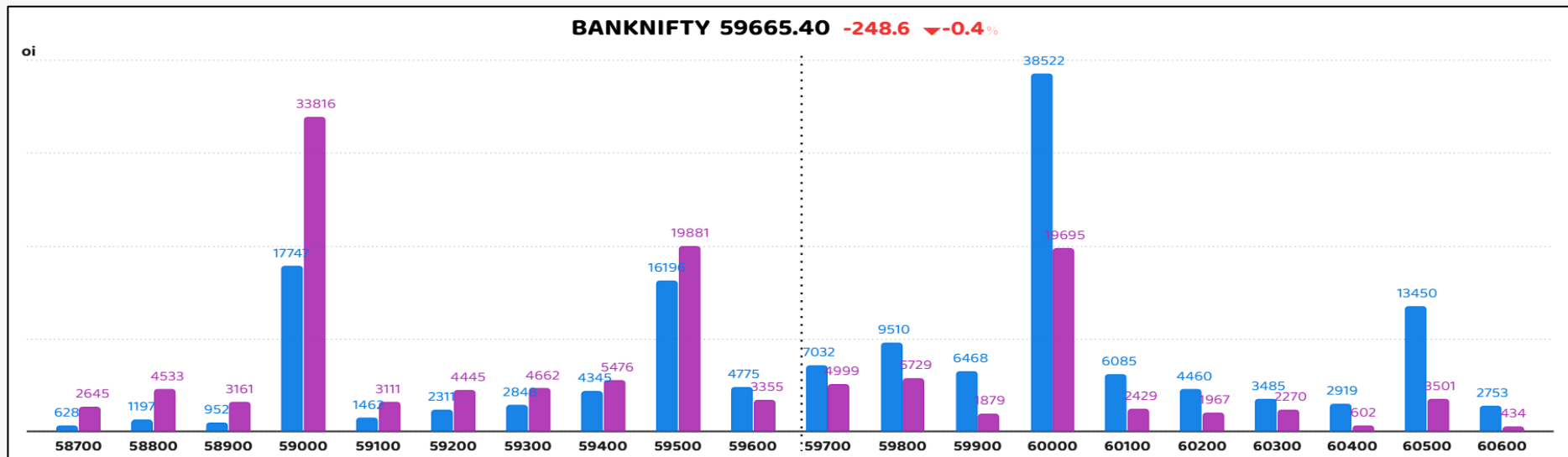
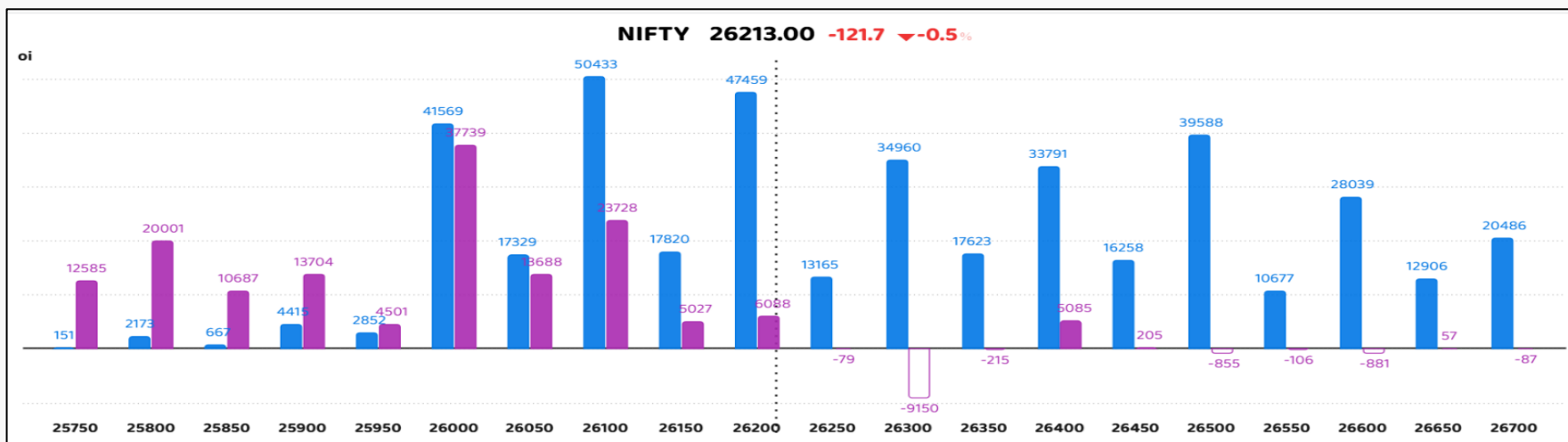


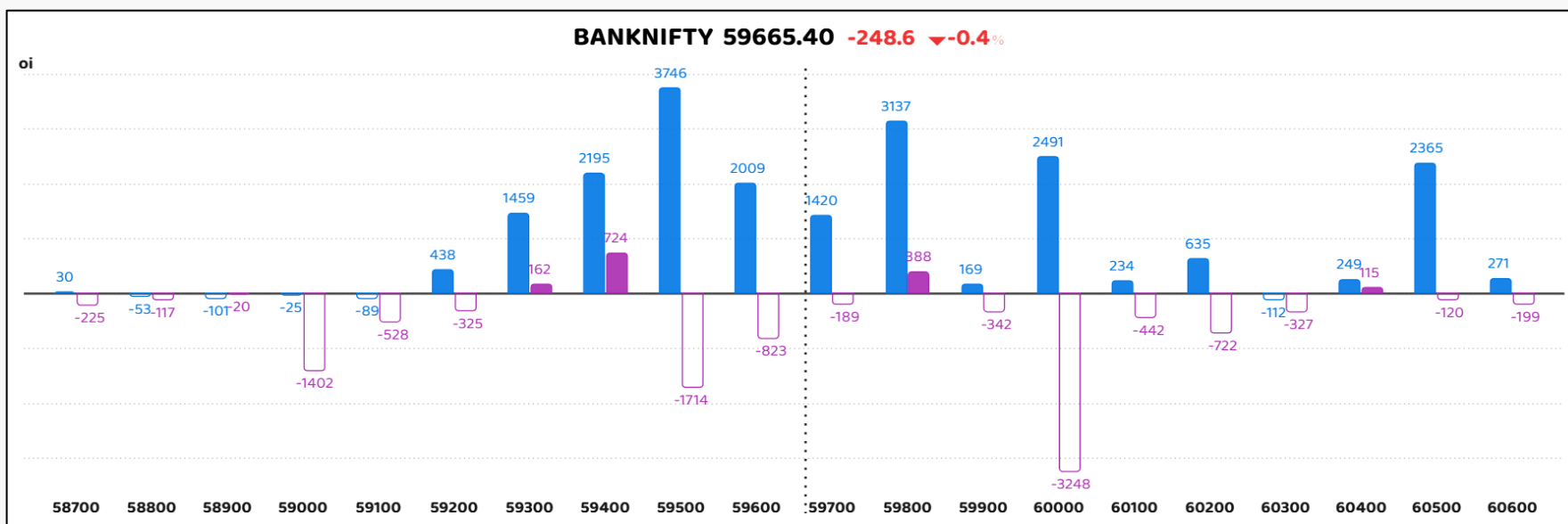
Chart quotes show front-month Nifty and Bank Nifty futures levels along with absolute and percentage change from prior trading session

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

Call ■ Put ■



The largest open interest changes (contracts) were seen at the 26,100 Call and the 26,000 Put



For the Bank Nifty, the biggest open interest changes were seen at the 59,500 Call & the 60,000 Put

Stocks with High IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
HDFC BANK LTD	989.8	-1.2	17.2	28.0	1.5	59.5
BANDHAN BANK LTD	149.8	-0.2	41.7	66.9	15.9	50.7
BOSCH LTD	36,660.0	0.9	19.4	36.2	2.1	50.7
CANARA BANK	152.0	1.0	25.7	44.7	6.6	50.0
BHARAT HEAVY ELE	285.5	-1.9	29.5	54.7	5.2	49.2

Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
HINDUSTAN UNILEV	2,477.8	0.5	6.6	25.8	6.6	0.0
TECH MAHINDRA LT	1,536.7	0.5	13.0	44.2	13.0	0.0
SAMVARDHANA MOTH	119.3	2.3	27.3	59.6	27.3	0.0
TATA CONSUMER PR	1,162.2	-0.1	5.2	34.4	5.2	0.0
STEEL AUTHORITY	132.5	-1.9	0.6	91.3	0.6	0.0

Stocks With High IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
BANDHAN BANK LTD	149.8	-0.2	41.7	66.9	15.9	90.2
INDRAPRASTHA GAS	198.4	-0.3	39.8	63.7	22.3	81.1
MANAPPURAM FINAN	278.0	-1.6	29.3	64.2	5.0	48.4
ASHOK LEYLAND	160.0	-0.2	27.1	56.0	22.0	46.1
HDFC BANK LTD	989.8	-1.2	17.2	28.0	1.5	44.7

Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
HINDUSTAN UNILEV	2,477.8	0.5	6.6	25.8	6.6	0.0
TECH MAHINDRA LT	1,536.7	0.5	13.0	44.2	13.0	0.0
TATA CONSUMER PR	1,162.2	-0.1	5.2	34.4	5.2	0.0
SAMVARDHANA MOTH	119.3	2.3	27.3	59.6	27.3	0.0
STEEL AUTHORITY	132.5	-1.9	0.6	91.3	0.6	0.0

Stocks With High Call Volume To Put Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
YESBANK	22.7	1.2	11,644	2,457	4.7
RVNL	317.9	-1.2	4,968	1,079	4.6
NAUKRI	1,386.6	1.6	40,892	9,294	4.4
IDEA	10.1	2.0	22,263	5,294	4.2
BDL	1,525.3	-0.3	26,982	6,476	4.2

Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
DIVISLAB	6,417.5	-0.1	4,863	6,483	1.3
MFSL	1,691.8	-1.3	6,544	8,253	1.3
ICICIGI	1,986.7	-0.2	2,441	2,726	1.1
PNBHOUSING	899.4	-1.0	1,679	1,531	0.9
KOTAKBANK	2,142.4	-0.2	20,122	16,770	0.8

Call Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
JSWSTEEL	1,162.0	-0.5	19,286	21,784	88.5
HINDUNILVR	2,477.8	0.5	37,280	45,551	81.8
KAYNES	5,408.5	0.9	30,981	39,309	78.8
GAIL	175.0	-0.2	18,043	26,194	68.9
MFSL	1,691.8	-1.3	3,768	5,506	68.4

Put Open Interest Relative to Record High

Ticker	Last Px	Chg (%)	Total Put OI	Highest Put OI	Relative to Highest Put OI
KAYNES	5,408.5	0.9	13,219	13,306	99.3
TMPV	361.8	-0.6	36,354	41,434	87.7
TVSMOTOR	3,670.7	0.2	10,796	12,844	84.1
JSWENERGY	484.2	-1.6	8,366	10,025	83.5
CONCOR	503.4	-0.5	7,427	9,261	80.2

Call Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
UNIONBANK	155.8	1.0	31,256	47,476	65.8
NAUKRI	1,386.6	1.6	40,892	1,04,571	39.1
BANKBARODA	296.9	0.5	37,868	99,425	38.1
ASIANPAINT	2,954.4	3.0	1,11,890	3,27,413	34.2
ASHOKLEY	160.0	-0.2	39,376	1,28,968	30.5

Put Volume Relative to Record High

Ticker	Last Px	Chg (%)	Total Put Vol	Highest PV	Relative to Highest PV
UNIONBANK	155.8	1.0	11,217	22,700	49.4
INDIANB	859.4	-3.1	5,154	13,433	38.4
ASHOKLEY	160.0	-0.2	16,367	57,453	28.5
BANKBARODA	296.9	0.5	25,281	93,110	27.2
MFSL	1,691.8	-1.3	8,253	34,360	24.0

Call Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
JSWSTEEL	1,162.0	-0.5	19,286	13,722	1.4
GAIL	175.0	-0.2	18,043	12,923	1.4
HDFCLIFE	759.0	-1.0	12,425	9,128	1.4
KAYNES	5,408.5	0.9	30,981	24,634	1.3
LODHA	1,119.8	-0.7	6,963	5,846	1.2

Put Open Interest to 20-day Average

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
GAIL	175.0	-0.2	13,466	8,525	1.6
KAYNES	5,408.5	0.9	13,219	9,314	1.4
NAUKRI	1,386.6	1.6	5,560	4,104	1.4
ITC	401.0	-0.8	25,762	19,153	1.3
JSWENERGY	484.2	-1.6	8,366	6,289	1.3

Call Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
NAUKRI	1,386.6	1.6	40,892	11,485	3.6
UNIONBANK	155.8	1.0	31,256	9,914	3.2
IEX	148.5	1.3	30,419	15,775	1.9
CYIENT	1,178.8	1.3	8,209	4,490	1.8
BANKBARODA	296.9	0.5	37,868	21,021	1.8

Put Volume Relative to 20-day Average

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
UNIONBANK	155.8	1.0	11,217	4,398	2.6
BANKBARODA	296.9	0.5	25,281	11,990	2.1
IEX	148.5	1.3	11,311	5,764	2.0
NAUKRI	1,386.6	1.6	9,294	4,740	2.0
HINDUNILVR	2,477.8	0.5	27,073	15,999	1.7

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	2255082	2.7%	2240	2300	941832	2.7%	JIOFIN	310	7698600	1.7%	305	300	6352050	-1.6%
ADANIPORTS	1600	1805475	5.4%	1518	1500	797525	-1.2%	JSWSTEEL	1200	3660525	3.3%	1162	1000	728325	-13.9%
APOLLOHOSP	7500	250875	3.6%	7242	7500	117750	3.6%	KOTAKBANK	2200	1014000	2.7%	2142	2100	1030000	-2.0%
ASIANPAINT	3000	855250	1.5%	2954	2900	619500	-1.8%	LT	4100	562100	1.7%	4031	3800	389550	-5.7%
AXISBANK	1300	2670000	3.3%	1258	1280	990625	1.7%	M&M	3800	1051600	2.2%	3717	3700	488600	-0.4%
BAJAJ-AUTO	10000	248175	10.1%	9086	9000	164175	-0.9%	MARUTI	16500	227700	1.6%	16239	15000	290450	-7.6%
BAJAJFINSV	2100	681750	1.7%	2066	1880	356500	-9.0%	MAXHEALTH	1200	701925	7.4%	1118	1160	470400	3.8%
BAJFINANCE	1100	2154000	7.3%	1026	1000	1734000	-2.5%	NESTLEIND	1320	1576000	4.9%	1259	1180	323500	-6.3%
BEL	420	8094000	1.7%	413	400	3860325	-3.2%	NTPC	330	3328500	0.4%	329	300	2344500	-8.7%
BHARTIARTL	2200	2324175	4.6%	2104	2100	1330950	-0.2%	ONGC	250	10332000	2.6%	244	250	2247750	2.6%
CIPLA	1660	933750	9.5%	1517	1410	561750	-7.0%	POWERGRID	280	3991900	4.7%	267	250	2690400	-6.5%
COALINDIA	380	2720250	0.3%	379	375	1669950	-1.0%	RELIANCE	1600	7856000	3.5%	1546	1500	2452000	-3.0%
DRREDDY	1300	1114375	1.9%	1275	1140	381875	-10.6%	SBILIFE	2200	271500	11.0%	1982	1900	427500	-4.1%
EICHERMOT	7300	328300	2.6%	7113	6300	241325	-11.4%	SBIN	1000	7630500	3.4%	967	980	3958500	1.3%
ETERNAL	310	11795200	3.1%	301	300	4898500	-0.2%	SHRIRAMFIN	880	2592975	4.3%	843	800	1478400	-5.1%
GRASIM	2800	666500	2.4%	2735	2700	574500	-1.3%	SUNPHARMA	1840	803600	2.3%	1799	1800	252000	0.0%
HCLTECH	1800	1175650	10.1%	1636	1440	516600	-12.0%	TATACONSUM	1200	898700	3.3%	1162	1070	392700	-7.9%
HDFCBANK	1000	4211900	1.0%	990	1000	2742850	1.0%	TMPV	175	26779500	4.3%	168	170	13453000	1.3%
HDFCLIFE	800	4010600	5.4%	759	700	1093400	-7.8%	TCS	3200	1545600	2.1%	3136	3200	735350	2.1%
HINDALCO	800	2293200	-0.8%	807	800	1473500	-0.8%	TECHM	1600	802200	4.1%	1537	1500	572400	-2.4%
HINDUNILVR	2600	2122500	4.9%	2478	2400	833100	-3.1%	TITAN	4000	314300	2.9%	3886	3600	356825	-7.4%
ICICIBANK	1400	6759200	2.0%	1373	1400	3385200	2.0%	TMPV	400	10476800	10.6%	362	360	4928800	-0.5%
INDIGO	6000	436350	5.3%	5698	5500	199050	-3.5%	TRENT	4400	607800	4.1%	4227	4300	348600	1.7%
INFY	1600	2825600	2.5%	1561	1500	1660000	-3.9%	ULTRACEMCO	12000	134550	2.9%	11666	10800	132850	-7.4%
ITC	410	9291200	2.3%	401	390	8889600	-2.7%	WIPRO	260	6282000	3.9%	250	250	3885000	-0.1%

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

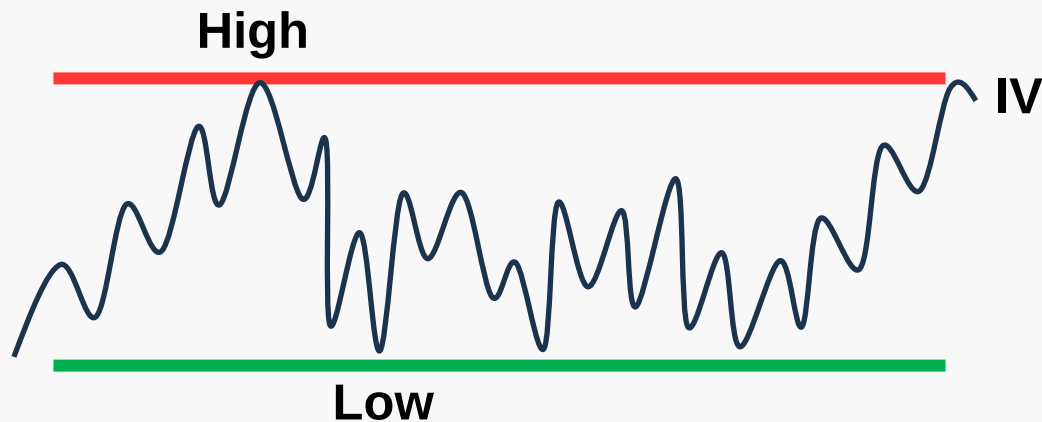
If distance to call strike from current market price = distance to put strike from current market price, then the %Away columns will be uncolored

- 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**

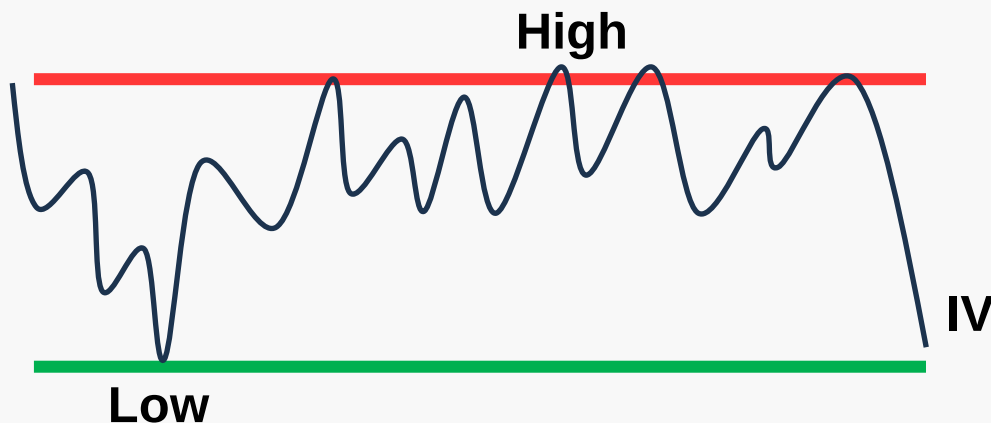
**ATM IV is the midpoint of the IV for the ATM call and put respectively*

- **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

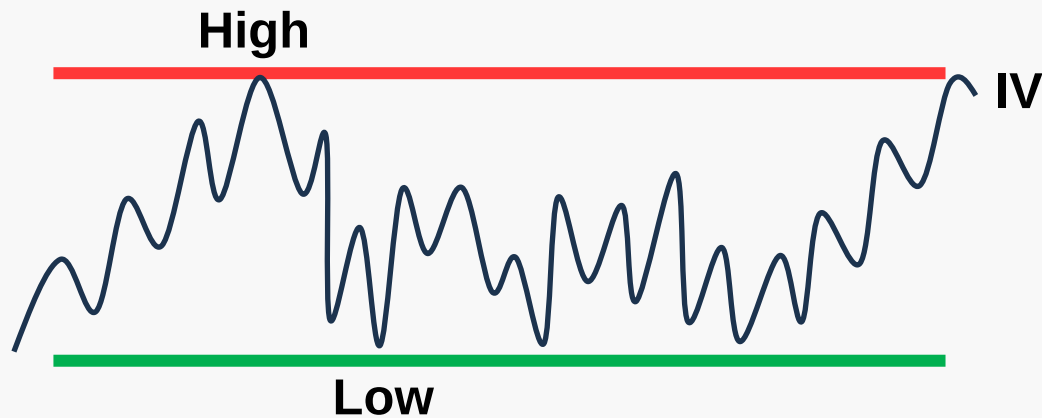


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

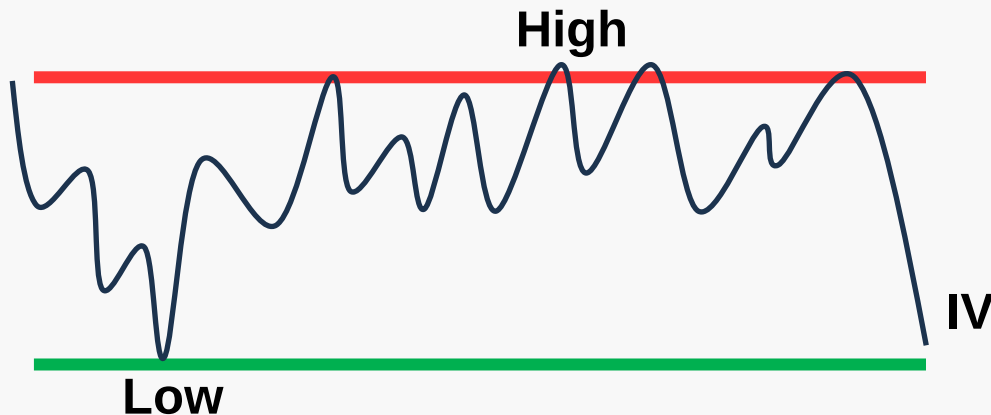


In this chart, notice that today's IV is close to the lowest low seen in the last 12 months. This means that IV for this option is cheap today compared to where it has traded over the last one year.

- **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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