



**Daily Derivatives Report** 



**Nifty Futures** 

	Value	Change	
Most recent settlement	25,112	0.6%▼	
Open Interest (OI)	1,85,08,275	4.0%▲	
Change in OI (abs)	1,85,08,275	7,15,950▲	
Premium / Discount (Abs)	55	31▼	
Inference	Short Build Up		

**Bank Nifty Futures** 

	Value	Change	
Most recent settlement	55,252	0.9%▼	
Open interest (OI)	22,98,590	4.8%▼	
Change in OI (abs)	22,98,590	1,14,940▼	
Premium / Discount (Abs)	131	83▼	
Inference	Long Unwinding		

**Volatility Insights** 

	Value	Change
India VIX Index	10.52	0.11▼
Nifty ATM IV (%)	8.25	0.9▼
Bank Nifty ATM IV (%)	9.65	0.7▼
PCR (Nifty)	0.87	0.10▼
PCR (Bank Nifty)	0.85	0.27▼

The FII Long Ratio in Index Futures jump to 14.5 %, up from 13.8 % in the previous session.

# **Single Stock Futures Movers**

Long Buildup (Open Interest Higher + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
INDIANB	78,48,000	8.8%	710.25	1.7%			
KAYNES	12,09,200	6.3%	7467.5	2.7%			
SBICARD	1,88,70,400	4.3%	881.25	1.5%			
EICHERMOT	43,41,400	3.5%	7031	0.3%			
360ONE	40,97,000	3.5%	1027.4	0.4%			

Short Buildup (Open Interest Higher + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
SHREECEM	2,74,125	12.1%	29670	-0.6%			
MAZDOCK	42,83,125	10.4%	2941.4	-0.2%			
ASHOKLEY	16,36,05,000	8.9%	141.25	-1.2%			
POLYCAB	19,07,000	8.8%	7522	-1.2%			
GODREJCP	1,39,58,000	8.7%	1184.7	-0.5%			

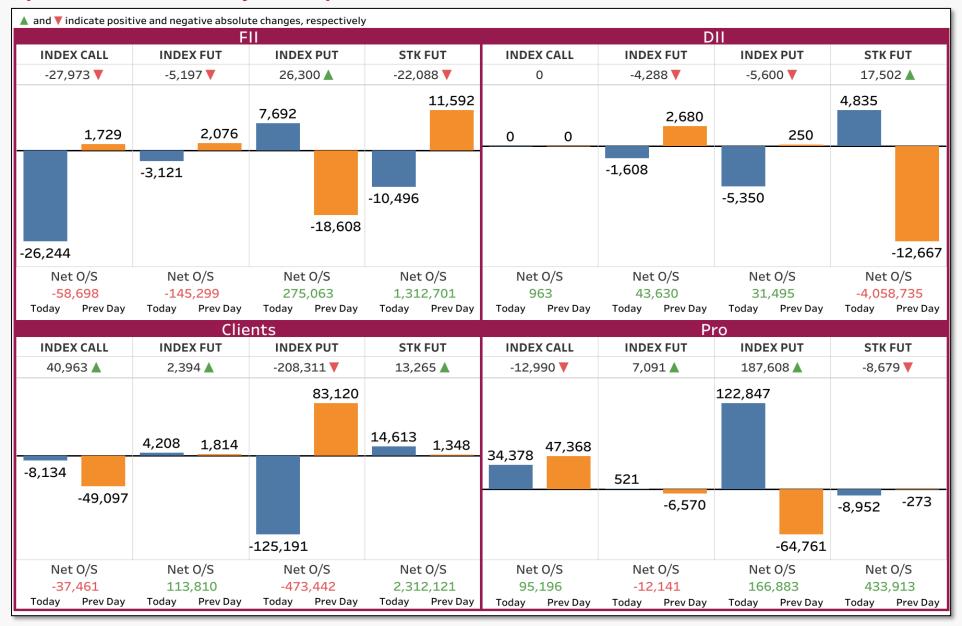
Short Covering (Open Interest Lower + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
JUBLFOOD	2,21,56,250	-5.9%	630.75	2.2%			
DABUR	2,36,43,750	-3.7%	518.05	0.4%			
ALKEM	15,28,500	-3.6%	5579.5	0.4%			
POWERGRID	6,92,98,700	-2.8%	293.95	1.6%			
TATACHEM	51,38,900	-2.7%	965.45	0.4%			

Long Unwinding (Open Interest Lower + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
DELHIVERY	1,25,93,175	-5.7%	457.6	-0.6%			
BDL	50,14,425	-4.4%	1566.9	-1.9%			
MANKIND	18,33,075	-4.0%	2530	-1.4%			
SBIN	10,32,64,500	-2.9%	866.9	-0.7%			
SUNPHARMA	1,55,39,300	-2.8%	1628.7	-0.5%			

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

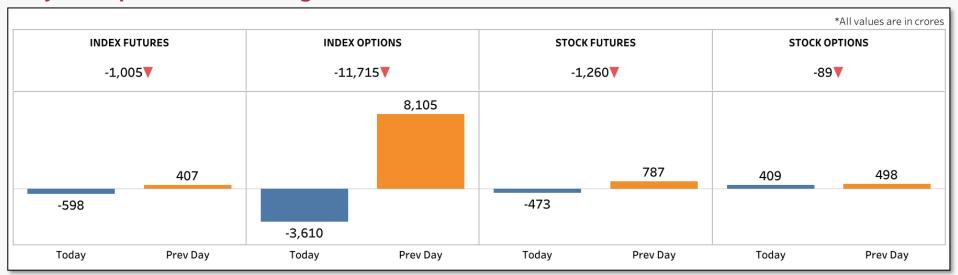


## **Open Interest Trends by Participant**

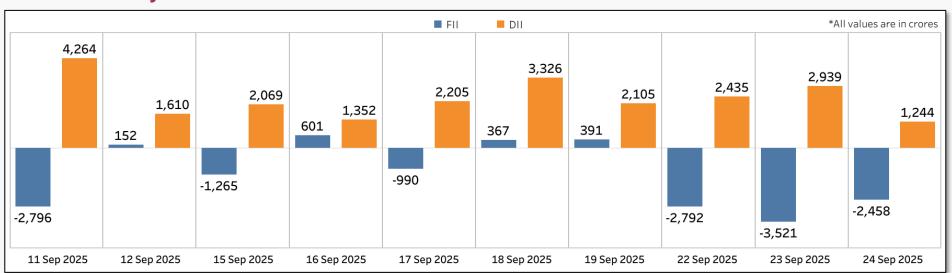




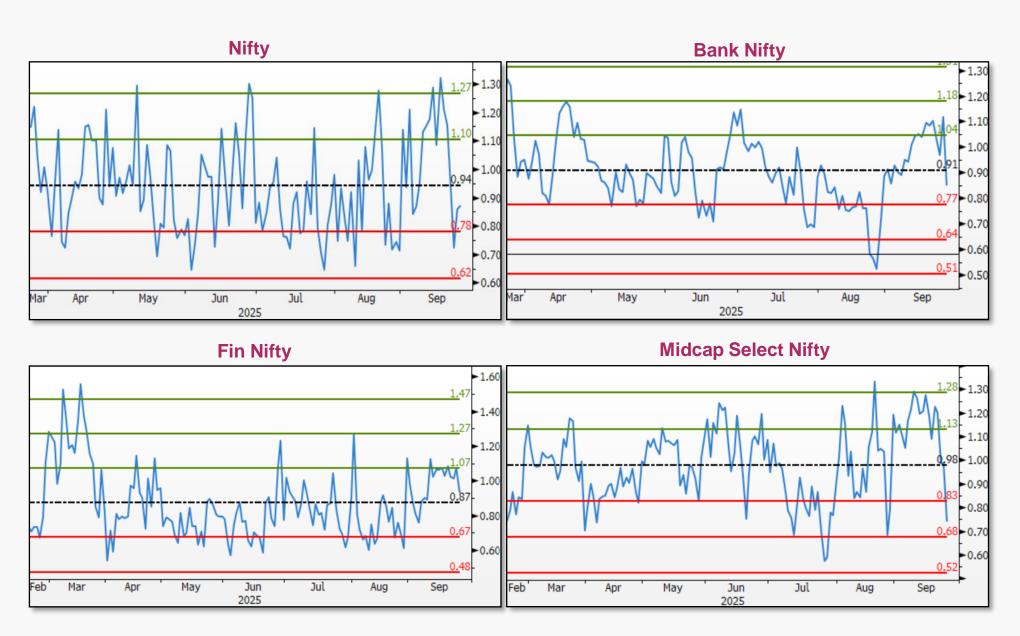
## **Daily Net Open Interest Change**



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



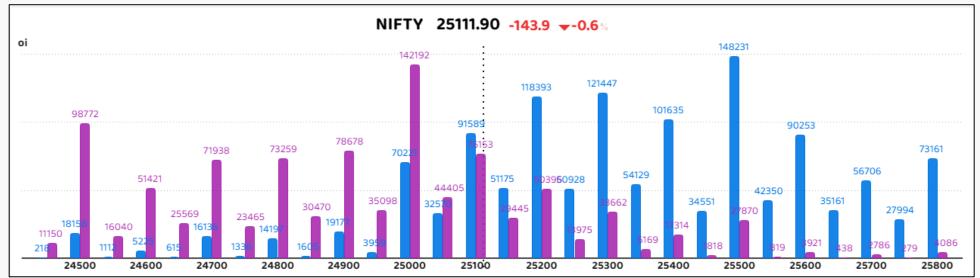




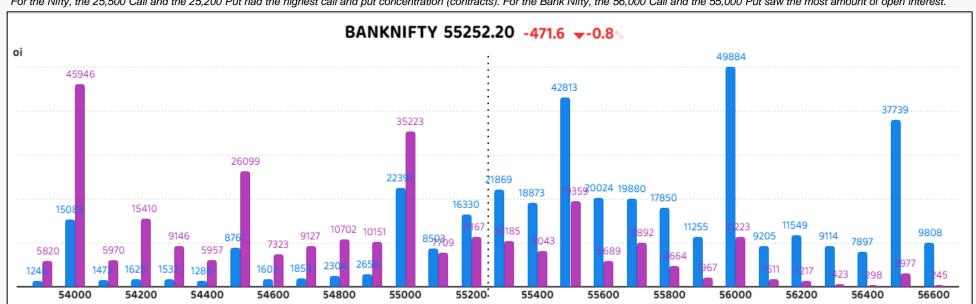


### Positioning Stack by Strike (Nifty Current Week Expiry & BankNifty Monthly Expiry)





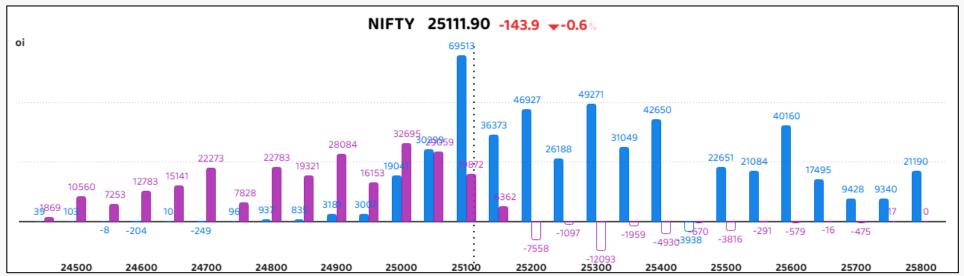
For the Nifty, the 25,500 Call and the 25,200 Put had the highest call and put concentration (contracts). For the Bank Nifty, the 56,000 Call and the 55,000 Put saw the most amount of open interest.



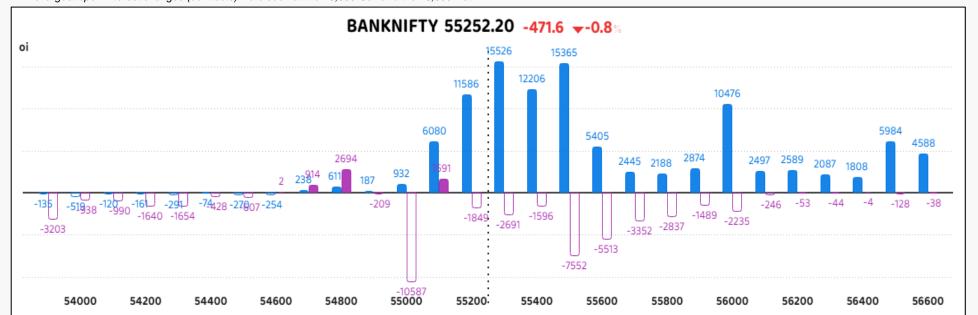


## **Open Interest Change (Nifty Current Week Expiry & BankNifty Monthly Expiry)**





The largest open interest changes (contracts) were seen at the 25,300 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)
VODAFONE IDEA LTD	8.59	-1.5	136.3	136.3	29.5	100.0
SHREE CEMENT	29650	-0.5	26.5	31.9	7.9	77.8
MARUTI SUZUKI	16249	0.9	22.6	29.9	0.4	75.3
BAJAJ AUTO LTD	8839	-1.6	27.8	36.4	2.1	74.8
KFIN TECHNOLOGIES	1060.7	-1.8	40.5	44.8	29.1	72.8

## Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
LARSEN & TOUBRO	3673.8	0.4	14.5	35.5	14.5	0.0
ASHOK LEYLAND	142.26	-1.2	22.1	44.7	22.0	0.4
POWER FINANCE	410.7	-0.5	24.1	51.5	23.8	0.9
FED BANK LTD	193.58	-0.8	21.3	130.9	17.1	3.7
NTPC LTD	347.6	1.3	21.1	116.6	16.7	4.4



# **Stocks With High IVP:**

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
VODAFONE IDEA LTD	8.59	-1.5	136.3	136.3	29.5	100.0
TATA ELXSI LTD	5504.5	-0.9	38.4	51.9	20.0	91.5
RBL BANK LTD	270.35	0.5	55.1	76.5	10.6	91.1
BSE LTD	2076.4	-2.2	55.9	66.7	37.1	90.8
INFOSYS LTD	1494.6	-0.2	27.4	60.8	3.3	84.2

#### Stocks With Low IVP:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
LARSEN & TOUBRO	3673.8	0.4	14.5	35.5	14.5	0.0
ASHOK LEYLAND	142.26	-1.2	22.1	44.7	22.0	0.5
POWER FINANCE	410.7	-0.5	24.1	51.5	23.8	2.0
REC LTD	382	-1.2	24.1	57.8	8.0	3.8
TATA CHEMICALS	964.15	0.4	23.0	40.8	20.3	4.0



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

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
LIC	894.25	-0.4	7390	1343	5.5
PAGE INDUSTRIES	42405	-0.9	14931	2714	5.5
LAURUS LABS LTD	909.75	0.0	28049	5351	5.2
TATA CHEMICALS	964.15	0.4	15176	3108	4.9
SUZLON ENERGY	57.5	-2.1	16690	3650	4.6

# 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	1944.2	-1.0	4044	6387	1.6
PB FINTECH LTD	1735.2	-3.7	41393	56284	1.4
NUVAMA WEALTH	6176	-0.7	5456	6577	1.2
KEI INDUS LTD	4079.3	-2.6	8382	9371	1.1
OBEROI REALTY	1620.1	-2.8	8528	9532	1.1



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

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Relative to Highest Call OI
ADANIENS	889	-3.9	13346	13346	100.0
MARUTI SUZUKI	16249	0.9	113570	123027	92.3
CGPOWER	770.1	-0.4	11572	13563	85.3
DABUR	517.8	0.5	15388	18278	84.2
HINDUSTAN UNILEVER	2549.5	1.1	38106	45551	83.7

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

Ticker	Last Px	Chg (%)	Total Put OI	Highest Put OI	Relative to Highest Put OI
MAZAGON DOCK	2940.2	0.02	12016	12016	100
VODAFONE IDEA LTD	8.59	-1.49	25897	25897	100
TORRENT POWER LTD	1264.3	-1.17	2839	2839	100
KAYNES TECHNOLOGY	7454	2.93	9833	9833	100
PIRAMAL PHARMA	196.34	-1.84	3089	3089	100



# **Call Volume Relative to Record High**

Ticker	Last Px	Chg (%)	Total Call Vol	Highest CV	Relative to Highest CV
INDIAN BANK	708.2	1.9	45907	45907	100.0
KAYNES TECHNOLOGY	7454	2.9	143477	143477	100.0
ADITYA BIRLA CAPITAL	291.95	0.2	46949	50801	92.4
PB FINTECH LTD	1735.2	-3.7	41393	48994	84.5

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

Ticker	Last Px	Chg (%)	Total Put Vol	Highest PV	Relative to Highest PV
PB FINTECH LTD	1735.2	-3.7	56284	56284	100.0
INDIAN BANK	708.2	1.9	13266	13433	98.8



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

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
ADANI GREEN ENERGY	1095.25	-3.2	30839	9773	3.2
DALMIA BHARAT LTD	2320.8	-0.8	8538	3318	2.6
PAGE INDUSTRIES	42405	-0.9	12397	5098	2.4
ADANI ENERGY	889	-3.9	13346	5505	2.4
MANKIND PHARMA	2529.7	-1.3	5399	2354	2.3

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

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
ADANI GREEN ENERGY	1095.25	-3.2	16109	6442	2.5
PB FINTECH LTD	1735.2	-3.7	4433	2159	2.1
KPIT TECHNOLOGIES	1240.6	-0.7	5574	2832	2.0
MANKIND PHARMA	2529.7	-1.3	2289	1165	2.0
INDIAN BANK	708.2	1.9	2978	1586	1.9



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

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
ADANI GREEN ENERGY	1152.15	11.8	382990	38721	9.9
ADANI ENERGY	937.4	6.9	137279	15254	9.0
ADANI ENTERPRISES	2629.5	4.2	446116	77317	5.8
HUDCO	239.96	4.8	43049	7691	5.6
NBCC INDIA LTD	114.95	3.7	25578	4625	5.5

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

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
PB FINTECH LTD	1735.2	-3.7	56284	5009	11.2
INDIAN BANK	708.2	1.9	13266	1819	7.3
BLUE STAR LTD	1944.2	-1.0	6387	1162	5.5
OBEROI REALTY	1620.1	-2.8	9532	2052	4.6
KEI INDUS LTD	4079.3	-2.6	9371	2132	4.4



- 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

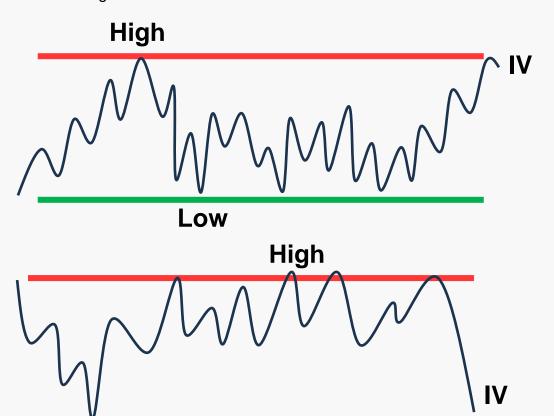


- Volume: Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- Open Interest: The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the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

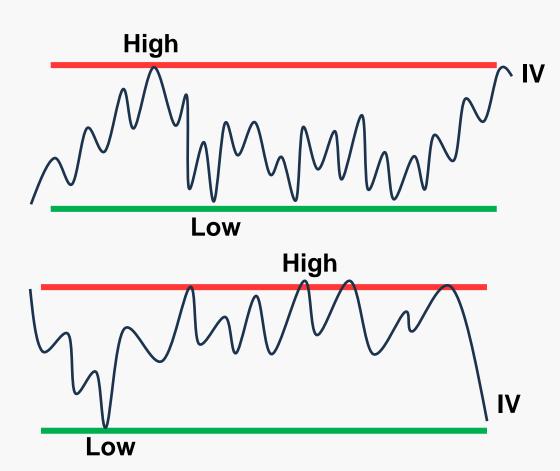


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

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