



**Daily Derivatives Report** 



**Nifty Futures** 

	Value	Change	
Most recent settlement	24,257	0.7% ▼	
Open Interest (OI)	1,35,65,650	1.4% ▲	
Change in OI (abs)	1,35,65,650	1,89,450 ▲	
Premium / Discount (Abs)	59	23 ▼	
Inference	Short Build Up		

**Bank Nifty Futures** 

	Value	Change	
Most recent settlement	52,304	1.4% ▼	
Open interest (OI)	29,22,390	7.7% ▲	
Change in OI (abs)	29,22,390	2,09,865 ▲	
Premium / Discount (Abs)	165	16 ▼	
Inference	Short Build Up		

**Volatility Insights** 

	Value	Change
India VIX Index	14.37	0.1 ▼
Nifty ATM IV (%)	14.02	1.9 ▼
Bank Nifty ATM IV (%)	17.84	0.5 ▲
PCR (Nifty)	0.55	0.09 ▼
PCR (Bank Nifty)	0.52	0.18 ▼

# **Single Stock Futures Movers**

Long Buildup (Open Interest Higher + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
COROMANDEL	37,24,700	5.7%	1831.85	0.8%			
HCLTECH	1,18,63,950	5.4%	1956.7	0.3%			
KPITTECH	19,12,400	4.9%	1525.4	0.5%			
OIL	46,26,800	3.8%	446.6	0.3%			
DRREDDY	1,17,90,000	3.8%	1271.1	1.9%			

Short Buildup (Open Interest Higher + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
LODHA	26,46,900	26.4%	1475.9	-0.8%			
ADANIGREEN	94,65,750	20.9%	1090.3	-4.6%			
JSWENERGY	50,41,500	20.4%	683.55	-0.3%			
IPCALAB	27,00,750	16.8%	1519.2	-2.8%			
FEDERALBNK	7,74,55,000	16.5%	200.51	-5.2%			

Short Covering (Open Interest Lower + Price Higher)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
ITC	11,93,53,600	-9.0%	471.15	0.1%			
IGL	2,35,33,125	-3.7%	398	3.8%			
BANDHANBNK	11,48,08,400	-3.5%	164.08	0.0%			
MUTHOOTFIN	40,02,625	-3.3%	2115.85	0.4%			
COFORGE	25,68,600	-2.9%	9467.3	0.6%			

Long Unwinding (Open Interest Lower + Price Lower)							
Symbol	Open Interest	Chg (%)	Price	Chg (%)			
CHAMBLFERT	1,06,15,300	-12.1%	523.8	-1.2%			
PVRINOX	46,10,496	-11.3%	1408.25	-6.3%			
ADANIENSOL	58,45,000	-7.0%	794.15	-2.5%			
CHOLAFIN	1,26,76,250	-5.6%	1242.85	-0.4%			
INDIAMART	13,23,000	-4.5%	2363.7	-0.5%			

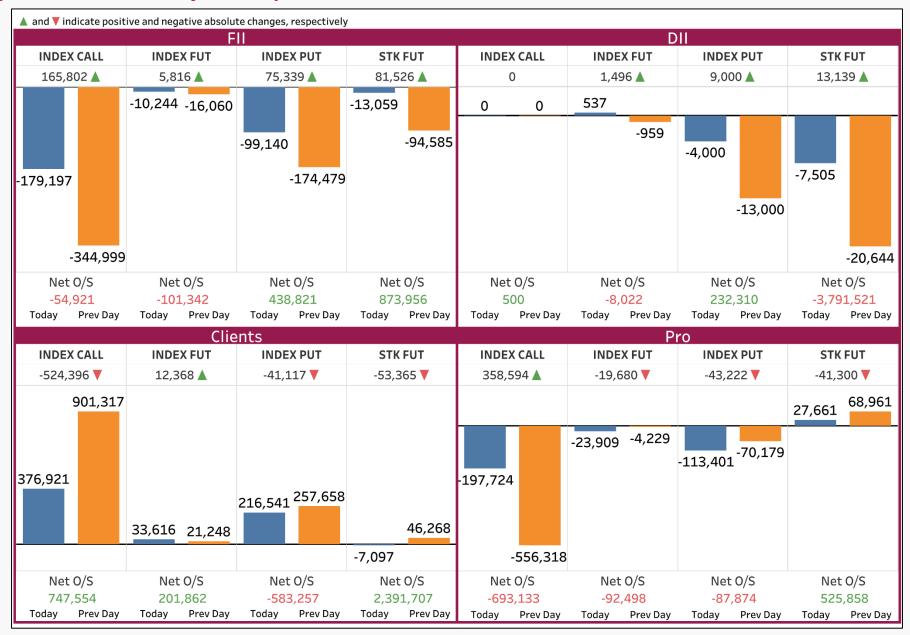
For an explanation of all the contents in this report, kindly click on the hyperlink at the top right which will take you to the end-of-report appendix

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

<sup>\*</sup>On expiration days, the premium/discount will be the difference between the new front-month contract and the cash market level on the day

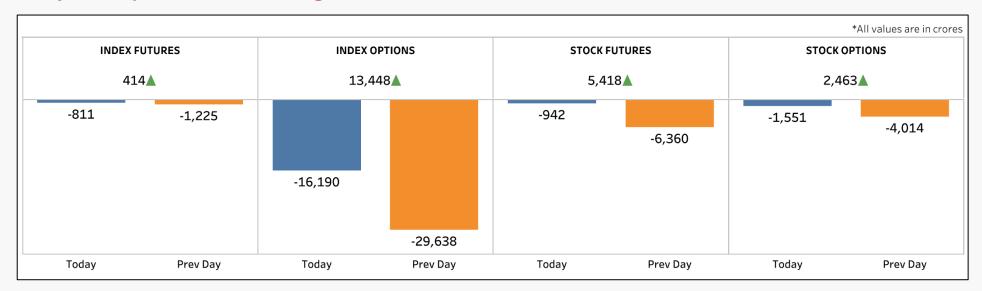


# **Open Interest Data by Participant**

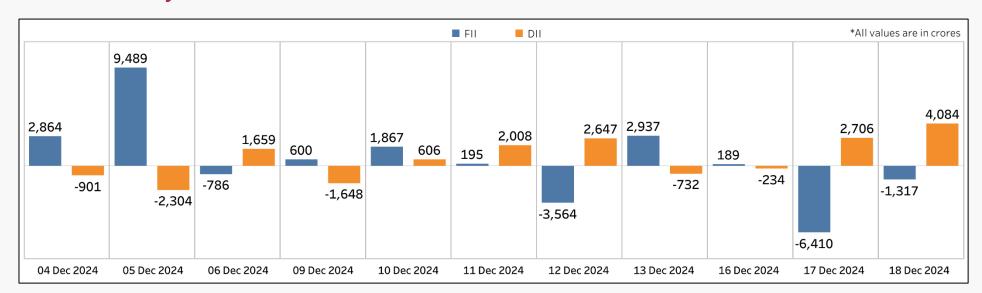




# **Daily Net Open Interest Change**



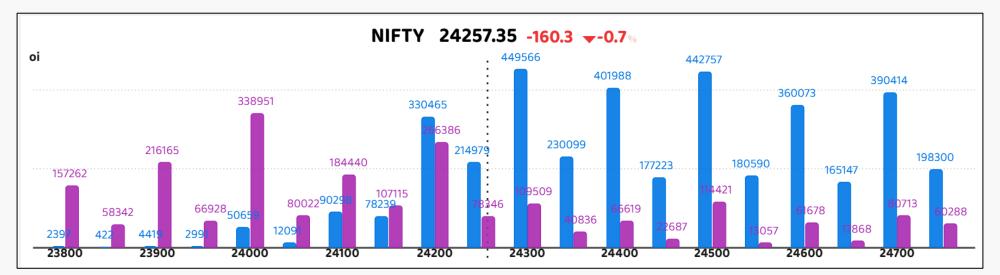
# **DII and FII Daily Cash Market Flows**



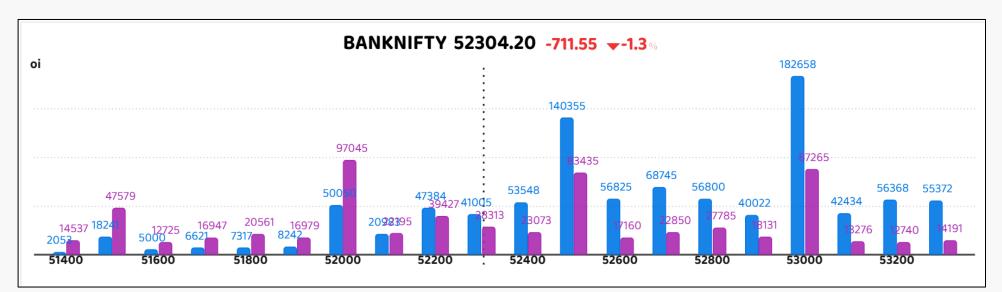


#### Positioning Stack by Strike (Nifty Current Week Expiry & BankNifty Monthly Expiry)





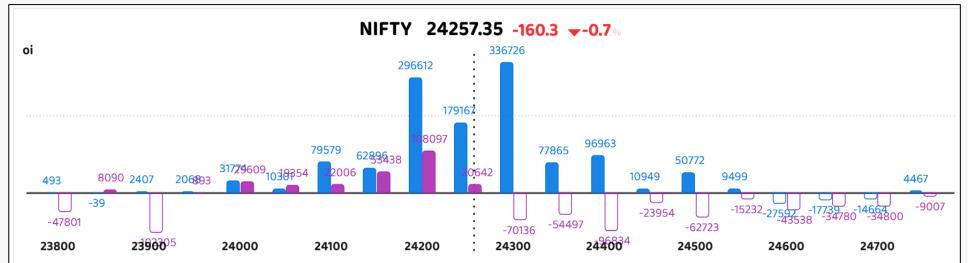
For the Nifty, the 24,300 call and the 24,000 put had the highest call and put concentration (contracts). For the Bank Nifty, the 53,000 call and the 52,000 put saw the most amount of open interest.



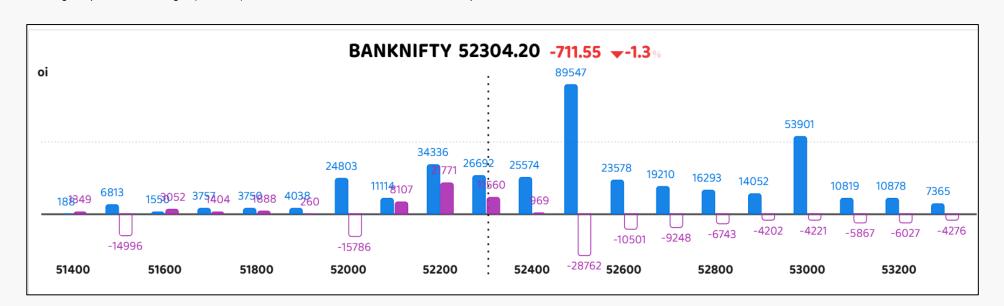


#### Open Interest Change (Nifty Current Week Expiry & BankNifty Monthly Expiry)

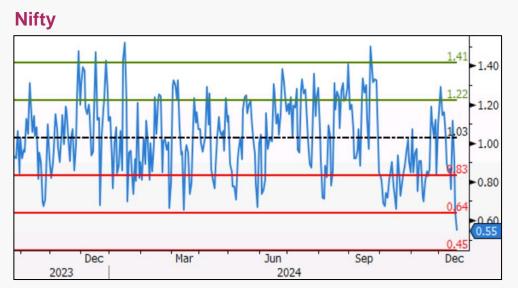


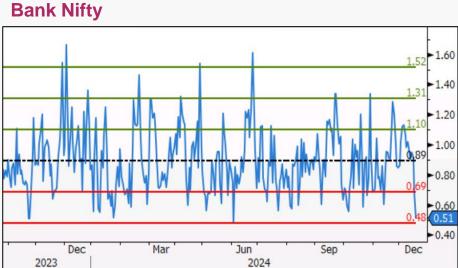


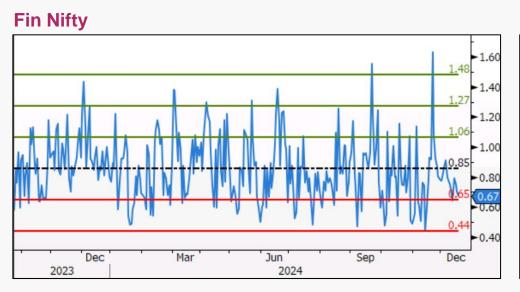
The largest open interest changes (contracts) were seen at the 24,300 call strike and 24,400 put strike.

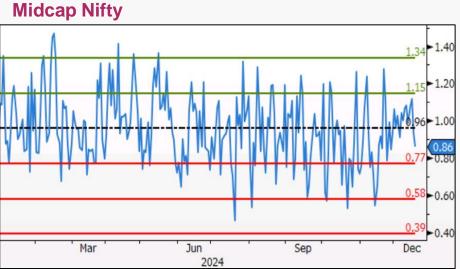






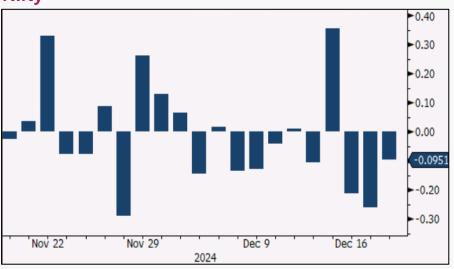




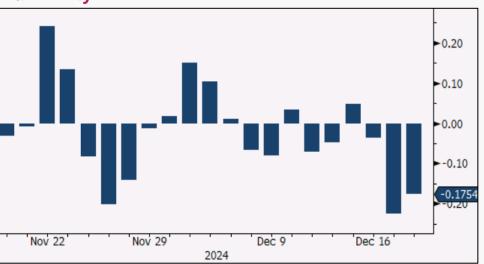




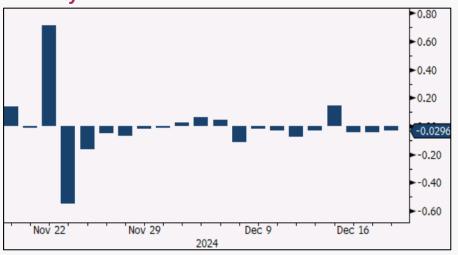
#### **Nifty**



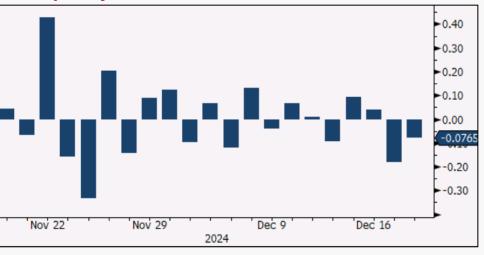
# **Bank Nifty**



# **Fin Nifty**



# **Midcap Nifty**





# Stocks with High IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
DIXON TECHNOLOGI	18916.2	-0.1	38.4	51.3	1.8	73.9
RBL BANK LTD	165.88	-0.7	60.7	79.2	13.3	72.0
GRANULES INDIA	596.8	1.2	41.7	54.5	11.0	70.7
KOTAK MAHINDRA	1780	-0.2	20.3	28.7	1.9	68.7
ATUL LTD	7399.95	0.9	32.5	41.5	13.6	67.8

#### Stocks with Low IVR:

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVR (1m/1y)
INDIAN RAILWAY C	813	-1.7	23.8	59.6	23.5	1.0
HDFC ASSET MANAG	4368.15	-1.1	22.4	53.2	22.0	1.3
BANK OF BARODA	250.67	-2.1	25.4	66.9	24.5	2.1
BHARAT ELECTRON	303.8	-2.2	27.7	81.6	26.1	2.9
EICHER MOTORS	4749.85	0.2	21.2	40.3	20.6	3.4



# **Stocks With High IVP:**

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
RBL BANK LTD	165.88	-0.7	60.7	79.2	13.3	97.7
GRANULES INDIA	596.8	1.2	41.7	54.5	11.0	96.0
HINDUSTAN COPPER	280.95	-1.2	59.7	91.5	16.3	93.0
ATUL LTD	7399.95	0.9	32.5	41.5	13.6	87.4
BRITANNIA INDS	4782.65	0.1	23.9	30.9	14.1	81.9

# **Stocks With Low IVP:**

Ticker	Last Px	Chg (%)	30d IV	30d IV High	30d IV Low	IVP (1m/1y)
PETRONET LNG LTD	335.05	-1.6	19.7	61.3	14.1	1.1
INDIAN RAILWAY C	813	-1.7	23.8	59.6	23.5	1.2
HDFC ASSET MANAG	4368.15	-1.1	22.4	53.2	22.0	1.2
CANARA BANK	103.19	-1.9	27.2	72.3	18.6	1.5
EICHER MOTORS	4749.85	0.2	21.2	40.3	20.6	1.7



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

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Call to Put Vol
ALKEM LABORATORI	5493.25	1.9	49626	6443	7.7
TORRENT PHARMA	3381.9	0.2	9386	1692	5.6
VODAFONE IDEA LT	7.79	-0.3	8307	1891	4.4
SYNGENE INTERNAT	859.45	-0.1	6614	1519	4.4
COLGATE PALMOLIV	2776.45	0.1	13585	3467	3.9

# Stocks With High Put Volume To Call Volume

Ticker	Last Px	Chg (%)	Total Call Vol	Total Put Vol	Put to Call Vol
JSW STEEL LTD	946.850	-2.1	35747	41754	1.2
INTERGLOBE AVIAT	4390.350	0.1	10758	12457	1.2
PIRAMAL ENTERPRI	1147.650	-6.3	18592	20626	1.1
APOLLO TYRES LTD	530.750	-0.4	4120	4438	1.1
SIEMENS LTD	7667.000	-1.6	16214	17009	1.0



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

Ticker	Last Px	Chg (%)	Total Call OI	Highest Call OI	Call OI Diff
COAL INDIA LTD	395.8	-1.8	41932	41932	100.0
SBI LIFE INSURAN	1398	-0.8	22325	22325	100.0
SAMVARDHANA MOTH	159.55	-3.0	21969	21969	100.0
PUNJAB NATL BANK	103.03	-2.8	22403	22403	100.0
SHRIRAM FINANCE	2931.4	-1.5	28629	28629	100.0

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

Ticker	Last Px	Chg (%)	Total Put OI	Highest Put OI	Put OI Diff
OBEROI REALTY	2317.1	0.1	10432.0	10432.0	100.0
COAL INDIA LTD	395.8	-1.8	25565.0	25673.0	99.6
INDUS TOWERS LTD	340.75	-1.5	13321.0	13630.0	97.7
NMDC LTD	213.63	-6.1	9314.0	9574.0	97.3
SHRIRAM FINANCE	2931.4	-1.5	11066.0	11424.0	96.9



# **Call Volume Relative to Record High**

Ticker	Last Px	Chg (%)	Total Call Volume	Highest CV	Call Diff
COROMANDEL INTER	1830.85	0.8	63495	63495	100.0
NMDC LTD	213.63	-6.1	65042	66493	97.8
ALKEM LABORATORI	5493.25	1.9	49626	61649	80.5

# **Put Volume Relative to Record High**

Ticker	Last Px	Chg (%)	Total Put Volume	Highest PV	Put Diff
NMDC LTD	213.63	-6.1	52130	52130	100.0
COROMANDEL INTER	1830.85	0.8	19326	19326	100.0



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

Ticker	Last Px	Chg (%)	Total Call OI	Avg OI Call 20D	20D Call OI Ratio
SHRIRAM FINANCE	2931.4	-1.5	28629	11772	2.4
ATUL LTD	7399.95	0.9	3607	1542	2.3
GODREJ CONSUMER	1091.75	0.2	17150	8280	2.1
SYNGENE INTERNAT	859.45	-0.1	7339	3639	2.0
METROPOLIS HEALT	2131.6	-2.0	4981	2517	2.0

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

Ticker	Last Px	Chg (%)	Total Put OI	Avg OI Put 20D	20D Put OI Ratio
COROMANDEL INTER	1830.85	0.8	4331	1890	2.3
OBEROI REALTY	2317.1	0.1	10432	4642	2.2
UNITED SPIRITS	1579.6	1.0	5396	2780	1.9
PAGE INDUSTRIES	49105.95	-0.2	3381	1920	1.8
LTIMINDTREE LTD	6574.05	-1.8	6528	3922	1.7



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

Ticker	Last Px	Chg (%)	Total Call Vol	Avg Vol Cal 20D	20D Call Vol Ratio
COROMANDEL INTER	1830.85	0.8	63495	10126	6.3
ALKEM LABORATORI	5493.25	1.9	49626	8536	5.8
NMDC LTD	213.63	-6.1	65042	14163	4.6
IPCA LABS LTD	1513.2	-2.9	19368	5042	3.8
UNITED SPIRITS	1579.6	1.0	53714	14586	3.7

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

Ticker	Last Px	Chg (%)	Total Put Vol	Avg Vol Put 20D	20D Put Vol Ratio
NMDC LTD	213.63	-6.1	52130	8903	5.9
COROMANDEL INTER	1830.85	0.8	19326	3980	4.9
IPCA LABS LTD	1513.2	-2.9	6561	1894	3.5
METROPOLIS HEALT	2131.6	-2.0	8135	2567	3.2
FED BANK LTD	200.03	-4.9	28730	10030	2.9



### 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	СМР	PE Strike	PE OI	% Away	Stock Name	CE Strike	CE OI	% Away	СМР	PE Strike	PE OI	% Away
ADANIENT	2500	1700400	1.7%	2457	3000	2084100	22.1%	INFY	2000	2972800	1.1%	1979	1940	1937600	-2.0%
ADANIPORTS	1300	3410400	7.4%	1210	1200	1733600	-0.8%	ITC	480	9622400	2.0%	471	460	3556800	-2.2%
APOLLOHOSP	7300	137625	0.9%	7237	7000	143000	-3.3%	JSWSTEEL	1000	2079675	5.6%	947	1000	608175	5.6%
ASIANPAINT	2500	2398400	6.6%	2345	2400	562600	2.3%	KOTAKBANK	1800	2374000	1.1%	1780	1800	1161600	1.1%
AXISBANK	1200	6020625	6.9%	1122	1140	1375625	1.6%	LT	4000	1233900	6.4%	3758	3700	389550	-1.5%
BAJAJ-AUTO	10000	437550	11.6%	8957	9000	172875	0.5%	LTIM	6800	162450	3.4%	6574	6000	157800	-8.7%
BAJAJFINSV	1700	2492000	4.2%	1631	1600	396000	-1.9%	M&M	3100	1084825	1.6%	3051	3000	496825	-1.7%
BAJFINANCE	7200	626750	1.8%	7074	6800	502250	-3.9%	MARUTI	11500	463600	4.5%	11002	11000	168350	0.0%
BHARTIARTL	1700	3463700	6.1%	1602	1600	1157575	-0.1%	NESTLEIND	2300	576000	5.1%	2188	2200	249800	0.5%
BPCL	310	6822000	7.5%	288	285	2196000	-1.1%	NTPC	370	17139000	8.3%	342	350	2628000	2.4%
BRITANNIA	5000	490100	4.5%	4783	4700	138700	-1.7%	ONGC	264	11831050	8.1%	244	250	2240700	2.4%
CIPLA	1500	1457300	1.9%	1472	1480	459550	0.5%	POWERGRID	350	7547400	8.8%	322	320	2118600	-0.5%
COALINDIA	420	6934200	6.1%	396	420	2107350	6.1%	RELIANCE	1300	18720000	3.7%	1253	1300	7206000	3.7%
DIVISLAB	6200	341900	6.0%	5850	6000	128900	2.6%	SBILIFE	1500	1711125	7.3%	1398	1400	449625	0.1%
DRREDDY	1280	1015000	0.4%	1275	1200	495000	-5.9%	SBIN	870	8232000	3.8%	838	800	4810500	-4.6%
EICHERMOT	5000	376250	5.3%	4750	4500	179725	-5.3%	SHRIRAMFIN	3200	789000	9.2%	2931	3200	174900	9.2%
GRASIM	2700	439000	4.1%	2594	2600	194000	0.2%	SUNPHARMA	1820	3446100	1.1%	1801	1800	364350	-0.1%
HCLTECH	1960	1162350	0.0%	1960	1920	736050	-2.1%	TATACONSUM	950	2302800	4.5%	909	940	516192	3.4%
HDFCBANK	1900	6781500	4.9%	1811	1800	3082200	-0.6%	TATAMOTORS	800	15716250	5.9%	756	800	3637700	5.9%
HDFCLIFE	650	3627800	4.1%	625	640	1152800	2.5%	TATASTEEL	150	38137000	3.8%	144	140	14575000	-3.1%
HEROMOTOCO	4700	906600	7.1%	4389	4600	303600	4.8%	TCS	4500	1210825	3.5%	4348	4200	570150	-3.4%
HINDALCO	670	4582200	5.8%	633	660	1635200	4.3%	TECHM	1800	1380600	1.2%	1779	1600	477000	-10.1%
HINDUNILVR	2500	1748100	6.0%	2359	2300	465900	-2.5%	TITAN	3500	689500	2.9%	3402	3300	350875	-3.0%
ICICIBANK	1340	5254900	2.0%	1314	1300	2274300	-1.1%	ULTRACEMCO	12000	210050	2.0%	11764	11000	149000	-6.5%
INDUSINDBK	1000	5918000	3.6%	965	1000	2322000	3.6%	WIPRO	310	5940000	-0.8%	313	300	4815000	-4.0%



- 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**

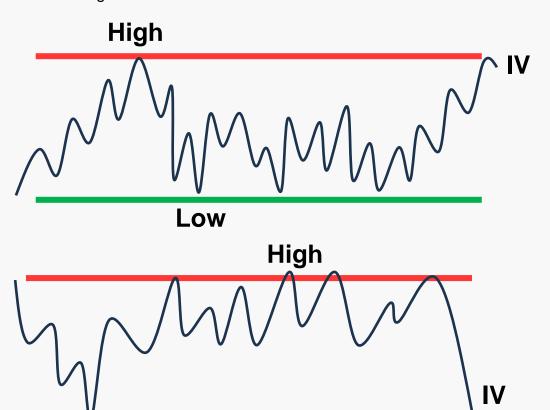


- Volume: Number of contracts traded for the day. If A bought 10 calls & B sold 10 calls, the volume for the day is 10 contracts
- Open Interest: The number of derivatives contracts that are open (have not been closed out). If A bought 10 calls, B bought another 10 calls and C sold 20 calls, then the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

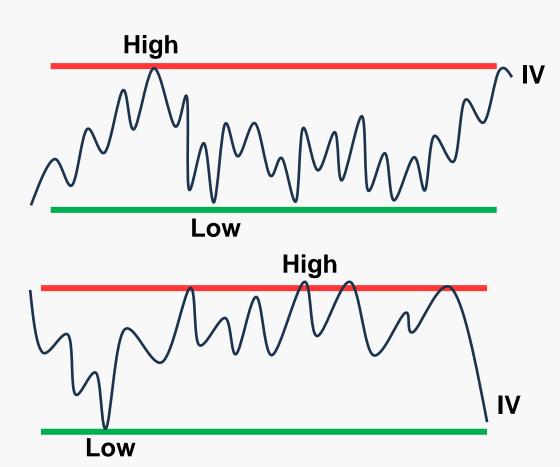


Assume the wavy line is IV over the last one year. Notice that today's IV is close to the highest high seen in the last one year. This means that IV for this option is expensive compared to where it's been in the last 12 months.

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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