**Team ID: 29**

**Hypothesis :**

We’ve used a simple price action trading strategy to place buy and sell orders on our portfolio.

A candle has 4 prices : open,high,low and close. When the open and close prices are close, within a certain value epsilon2, where

**epsilon2 = 0.001\*current close price of the stock**

we will generate a buy signal if the difference between the low price and the minimum of the close and open prices lies within a certain range epsilon1, where

**epsilon1 = 0.01\*current close price of the stock**

and we will generate a sell signal if the difference between the high price and the maximum of the close and open prices lies within a certain range epsilon1, which is again :

**epsilon1 = 0.01\*current close price of the stock**

**Note that the current close price of the stock denotes the current price of the stock, taken from the OHLC data of the last one minute.**

We’ve considered the 15 min and 5 min OHLC data of the stocks. Since in blueshift only 1 min and 1 day historical data is available, we have extracted 5 min and 15 OHLC data for testing our hypothesis.

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**Testing:**

We have tested our hypothesis on the top 10 BANKNIFTY stocks - **HDFCBANK ,ICICIBANK, KOTAKBANK ,SBIN, AXISBANK, INDUSINDBK, BANKBARODA , FEDERALBNK, IDFCFIRSTB ,PNB**

The testing period is from 1 JULY 2017 to 1 JULY 2022, on NSE stock data with a capital of Rs 10000

The results obtained were:

**Returns**: -10.85%

**Alpha**: 0.06

**Beta**: 0.42

**Sharpe**: -0.12

**Drawdown**: -24.21%

