

1. Market Sentiment Frequency

Chart Type: Countplot

Data Source: Fear & Greed Index (classification column)

This chart shows how frequently different market sentiments like *Fear*, *Greed*, *Extreme Fear*, and *Extreme Greed* occur over the dataset.

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The most frequent sentiment is **Fear**, indicating risk-averse behavior dominates.

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Extreme Greed occurs the least.

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This sets the psychological backdrop for understanding trader behavior.

2. Fear & Greed Index Over Time

Chart Type: Lineplot

Data Source: Fear & Greed Index (date, value, classification)

The chart visualizes how the Fear & Greed score (ranging from 0 to 100) changes over time, color-coded by classification.

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Sentiment **fluctuates significantly** across the timeline.

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Sharp dips indicate market panic (Extreme Fear), while peaks suggest optimism (Greed).

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Important for aligning behavioral trading data with market emotion trends.

3. Closed PnL Distribution

Chart Type: Histogram

Data Source: Trader Data (Closed PnL)

Shows the spread of profit and loss across all trades:

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Most trades are clustered around **small gains or losses**.

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Some trades show large profits or losses (outliers).

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This provides a general picture of trading profitability and risk exposure.

4. Profit Ratio Distribution (PnL / Size USD)

Chart Type: Histogram

Data Source: Derived (Closed PnL / Size USD)

Calculates how much profit was made per dollar invested.

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Most ratios are **close to zero**, implying moderate or no profit.

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High ratios may indicate **high leverage** or very successful trades.

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This metric is used as a proxy to assess trading efficiency and risk.

5. Profit vs Volume Category

Chart Type: Boxplot

Volume Categories:

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Low (< \$100)

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Medium (\$100–\$999)

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High (\geq \$1000)

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Compares profits across different trade volumes:

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Low-volume trades tend to have tighter, safer profit ranges.

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High-volume trades show a wider spread, indicating **higher risk and reward**.

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This helps reveal how trade size impacts outcome.

6. Profit by Side (BUY/SELL)

Chart Type: Boxplot

Data Source: Side, Closed PnL

Analyzes profitability based on whether the trade was a **BUY** or **SELL**:

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Differences may arise due to **market trend**, **timing**, or **bias**.

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One side may consistently outperform the other.

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Useful for evaluating directional effectiveness in trading strategies.

7. Profit by Direction

Chart Type: Boxplot

Data Source: Direction, Closed PnL

Shows how profit varies based on declared **Direction** (Buy/Sell):

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Provides a second layer of analysis compared to Side.

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Helps validate whether **directional intent** leads to better/worse outcomes.

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Useful for understanding trader behavior intent vs result.

8. Position Change vs Closed PnL

Chart Type: Scatterplot

Data Source: Derived (Size Tokens - Start Position)

Shows how the change in position size relates to profit/loss:

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Large changes can be associated with **higher volatility** in outcomes.

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Smaller position changes tend to result in **more stable profits**.

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A key visualization to understand **trader aggressiveness** or **leverage** usage.