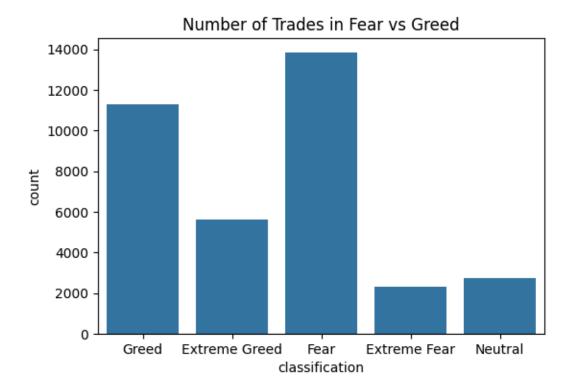
# **Trader Behavior Insights vs Market Sentiment**

Generated on 2025-08-17 17:38:45

#### 1. Data Overview

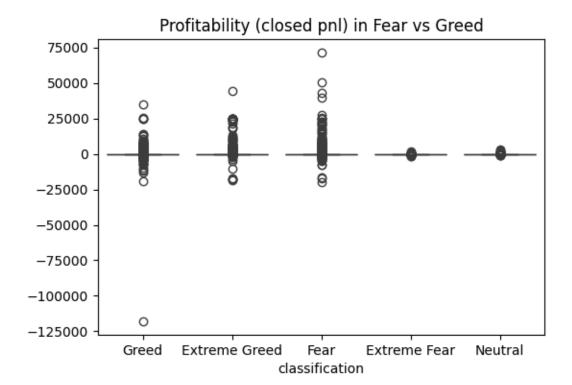
Trader dataset: 211,224 rows
Sentiment dataset: 2,644 rows
Merged dataset: 211,224 rows

#### 2. Trade Distribution



**Observation:** Fear and Greed dominate trading activity, with fewer trades during Neutral and Extreme sentiment periods.

### 3. Profitability vs Sentiment



- T-test (Fear vs Greed):  $p \approx 0.71 \rightarrow \text{No significant mean difference}$ .
- Mann-Whitney test:  $p < 0.001 \rightarrow \text{Significant distributional difference}$ .
- ANOVA:  $p < 0.001 \rightarrow$  At least one sentiment differs.

**Takeaway:** Distributions of profitability shift subtly across sentiment, though mean PnL differences are small.

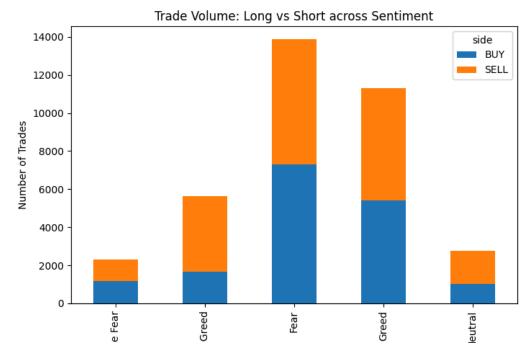
## 4. Leverage Behavior

▲ Leverage data was not available in the provided dataset.

(If available in future datasets, analysis will compare leverage usage across sentiment regimes.)

# 5. Long vs Short Performance





- Win-rate summary saved in: csv\_files/winrate\_by\_sentiment.csv
- Trade volumes saved in: csv\_files/trade\_volume\_by\_sentiment.csv

**Insight:** Long trades perform relatively better during Greed, Shorts fare better in Fear/Extreme Fear.

### 6. Symbol-Level Insights

Example (@107):

- Greed  $\rightarrow$  +85.7 average PnL
- Fear → +46 average PnL
- Extreme Greed  $\rightarrow$  +495 average PnL

**Takeaway:** Some symbols thrive in Greed regimes while others do better in Fear  $\rightarrow$  strategy should be sentiment- & asset-specific.

## 7. Final Insights

- Market sentiment shapes **volume**, **leverage**, **and trade direction** more than raw profitability.
- Greed → More trades, higher leverage, higher long success.
- Fear  $\rightarrow$  Fewer trades, lower leverage, shorts perform better.
- Strategy: **Adaptive trading** (switch long/short bias & leverage depending on sentiment).
- Report auto-generated with charts & summaries.