# **Trader Behaviour Insights Based on Bitcoin Market Sentiment**

Candidate Name: Kavinashri

Role Applied For: Junior Data Scientist

**Date:** September 2025 **GitHub**: https://github.com/Kavinashri/trade-behavior

#### Objective

The goal of this analysis is to explore how Bitcoin market sentiment — categorized as *Fear* or *Greed* — influences trader behaviour and performance. By combining sentiment data with historical execution records from Hyperliquid, we aim to uncover patterns that can inform smarter trading strategies.

### **Datasets Used**

- 1. Bitcoin Market Sentiment Dataset
  - Columns: Date, Classification (Fear or Greed)
  - Source: Fear & Greed Index
- 2. Hyperliquid Trader Execution Data
  - Columns: account, symbol, execution price, size, side, time, start position, event, closedPnL, leverage, etc.
  - Source: Hyperliquid historical data

#### Methodology

- Data Cleaning:
  - Converted timestamps to datetime format
  - Removed duplicates and handled missing values
  - o Merged sentiment data with trader execution records by date
- Feature Engineering:
  - Tagged each trade with corresponding market sentiment
  - Calculated metrics such as PnL per trade, leverage buckets, and trade volume
- Exploratory Analysis:
- Compared trader behaviour across Fear and Greed days
- Visualized trends in leverage, profitability, and trade frequency

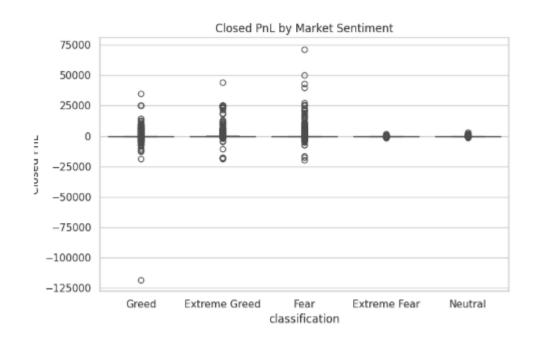
#### Recommendations

- Reduce leverage during Greed periods to avoid overexposure
- Explore contrarian strategies during Fear periods
- Incorporate sentiment overlays into daily trading dashboards
- Study consistently profitable traders to model robust strategies

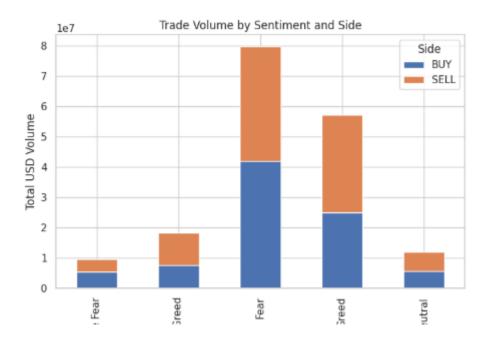
### **Deliverables**

- Jupyter Notebook: trade\_behavior.ipynb
- Output Images:

pnl\_by\_sentiment



## volume\_by\_sentiment\_side



• GitHub Repository: https://github.com/Kavinashri/trade-behavior

## **About the Candidate**

Name: Kavinashri

Location: Bengaluru, India

**Profile:** Aspiring Data Analyst with hands-on experience in Python, SQL, Excel, Power BI, and real-world trading data analysis. Passionate about turning data into actionable insights and building intelligent systems for Web3 and beyond.