

# Data Science Report: Trading Behavior & Market Sentiment Analysis

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## Executive Summary

This report analyzes the relationship between trader behavior on Hyperliquid and Bitcoin market sentiment (Fear & Greed Index).

### 1. Dataset Overview

- **Total Trading Days:** 6
- **Total Unique Traders:** 32
- **Total Volume:** \$1,191,187,442.46

### 2. Profitability Analysis

- **Fear Avg PnL:** \$6,699,925.19
- **Greed Avg PnL:** \$1,063,205.51
- **T-test p-value:** 0.1177

### 3. Risk Analysis

- **Fear Leverage:** 1.00x
- **Greed Leverage:** 1.00x
- **Fear Mean/Std (Sharpe-like):** 0.0000
- **Greed Mean/Std (Sharpe-like):** 0.5774

### 4. Visualizations

Visualizations have been saved to the `outputs/` directory.