

# Data Science Assignment Report

Candidate: Adithya

Objective: Analyze trader behavior vs. Bitcoin market sentiment.

## Key Insights:

### 1. Profitability vs. Sentiment:

- Traders were MOST profitable during 'Extreme Greed' periods (Avg PnL ~\$67).
- Profitability was lowest during 'Neutral' and 'Extreme Fear' periods.

### 2. Volume Analysis:

- The highest trading volume occurred during 'Fear' sentiment.
- This suggests traders are active during price drops but make better margins during rallies (Greedy).

## Conclusion:

Traders should consider aggressive strategies during Extreme Greed for maximum profitability, while expecting high liquidity/volume during Fear phases.