

TITLE:

Data Science Assignment – Market Sentiment vs Trader Behavior By Tirupathi HemaLatha

◆ 1. Objective

This project analyzes how trader behavior (PnL, volume, fee, etc.) aligns with Bitcoin market sentiment (Fear vs Greed). The goal is to uncover patterns that could help improve trading strategy.

2. Dataset Summary

- **Sentiment Data:** Classification of days into Fear, Greed, Extreme Fear, etc.
 - **Trader Data:** Execution, trade size, leverage, fee, and PnL per transaction
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3. Key Insights

- **Average PnL** tends to be higher during Greed days compared to Fear days
 - **More trades** were executed on Fear days, but with **lower profitability**
 - **Fees** were slightly higher on Fear days, suggesting frequent or rushed trading
 - Overall, Greed sentiment showed more confident trading with better outcomes
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4. Visual Summary

(Insert screenshot or export the chart from Colab)

sentiment_trade_count.png

5. Conclusion

Market sentiment influences trader behavior. Greed days may trigger risk-taking but often lead to higher average returns. Traders may panic and overtrade on Fear days, increasing fees with less reward.