Data Science Assignment Instructions – Web3 Trading Team

☑ Standardized Submission Format

All candidate submissions must strictly follow this structure. Non-compliance will result in rejection of the application.

☑ Create a root directory with the following format:

`ds_<candidate_name>`

☑ Inside this directory, maintain the following structure:

```
ds_<candidate_name>/
├── notebook_1.ipynb          # All work should be done in Google Colab notebooks.
├── notebook_2.ipynb          # (Optional) Additional Colab notebook if needed.
├── csv_files/          # Store all CSVs or data outputs here.
│   └── *.csv           # Any intermediate or processed data files.
├── outputs/             # Store all visual outputs, graphs, or charts here.
│   └── *.png / *.jpg      # Image results of EDA, charts, etc.
├── ds_report.pdf        # Final summarized insights and explanations.
└── README.md             # (Optional but encouraged) Setup instructions, notes.
```

☑ All code must be shared as **Google Colab links** with access set to 'Anyone with the link can view'.

☑ The exact same structure must be updated in the GitHub repository as well.

☑ Failing to comply with any of the above instructions will result in immediate rejection.

◻ Assignment Overview

You are expected to explore and analyze the relationship between trader behavior and market sentiment using two key datasets.

◻ Datasets

1. **Bitcoin Market Sentiment Dataset**

   - Columns: `Date`, `Classification` (Fear / Greed)

2. **Historical Trader Data from Hyperliquid**

   - Columns include: `account`, `symbol`, `execution price`, `size`, `side`, `time`, `start position`, `event`, `closedPnL`, `leverage`, etc.

◻ Objective

Analyze how trading behavior (profitability, risk, volume, leverage) aligns or diverges from overall market sentiment (fear vs greed). Identify hidden trends or signals that could influence smarter trading strategies.

◻ Dataset Links

1. Historical Trader Data:

   https://drive.google.com/file/d/1IAfLZwu6rJzyWKgBToqwSmmVYU6VbjVs/view?usp=sharing

2. Fear & Greed Index:

   https://drive.google.com/file/d/1PgQC0tO8XN-wqkNyghWc_-mnrYv_nhSf/view?usp=sharing

◻ Apply Now!

This assignment is the first step in our hiring process. Top-performing candidates will be shortlisted for an interview.

Apply now and take the next step in your data science career with one of the most innovative teams in Web3 trading!