

Binance Trade Data Analysis Report

1. Introduction

This report presents an analysis of historical trade data from various Binance accounts over a 90-day period. The objective was to derive meaningful financial insights, rank accounts based on risk-adjusted performance, and identify the top 20 accounts.

2. Methodology

The analysis followed a structured approach involving:

- Data Exploration and Cleaning: Inspecting and preparing the dataset for analysis.
- Feature Engineering: Calculating financial metrics such as ROI, Sharpe Ratio, Maximum Drawdown, and Win Rate.
- Ranking Algorithm: Developing a ranking system that prioritizes stability over high returns.
- Score Calculation: Assigning weights to different metrics to create a composite score.
- Evaluation: Identifying the top 20 accounts based on the calculated scores.

3. Metrics Calculated

To evaluate trading performance, the following financial metrics were computed:

- ROI (Return on Investment): Measures profitability relative to investment size.
- PnL (Profit and Loss): Represents absolute gains or losses.
- Sharpe Ratio: Evaluates risk-adjusted returns to identify stable performance.
- Maximum Drawdown (MDD): Captures the worst-case loss scenario.
- Win Rate: Percentage of successful trades relative to total trades.
- Win Positions: Total number of profitable trades.
- Total Positions: Overall trade volume per account.

4. Findings & Challenges Overcome

One of the main challenges was ensuring the ranking system accurately reflected both profitability and risk management. Some accounts showed high profitability but also had large drawdowns, making them less stable over time.

To address this:

- The ranking system was designed to reward consistency by prioritizing Win Rate and Sharpe Ratio.
- Maximum Drawdown was considered to penalize highly volatile accounts.
- Different weightings for metrics were tested to achieve a balance between reward and risk.

Through this approach, the analysis successfully identified the top-performing accounts that combined profitability with stability, ensuring a more reliable ranking methodology.

5. Conclusion

This analysis provided a structured approach to evaluating Binance account performance. By emphasizing risk-adjusted returns, the ranking methodology ensured that high-performing accounts were both profitable and stable. The final ranking serves as a strong indicator of trader reliability.