

Crypto Pool Performance Analysis

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Abstract- This paper presents an in-depth analysis of cryptocurrency dynamics utilizing Microsoft Excel, focusing on weighted pool strategies and key market metrics across Solana, Arbitrum, and Ethereum blockchains. Leveraging Excel's analytical capabilities, the study investigates withdrawal prices, crowdfunding activities, and profit withdrawal behaviors within the crypto eco system. Through Excel's data manipulation tools, this study examines the weighted pool dynamics of native tokens within Solana (SOL, RAY, JUP, ORCA, BONK), Arbitrum (ARB), and Ethereum (ETH, GMX, BTC, USDC), providing insights into their relative performance and market interplay. Using spreadsheet functions in Excel, the investigation breaks out withdrawal price movements in each of the three blockchain ecosystems, finding trends and oscillations that affect trading techniques and investor behaviour. **Keywords:** Data Visualization, Data Analysis, Pivot charts, Macro, Crypto Analysis, Decision Making.

researchers in identifying important themes and patterns in the data. Data visualization plays an important role in making data more understandable and up-to-date in today's information world

IMPORTANCE OF DATA VISUALIZATION

Complex data is important, and data visualization makes this easier by providing a better way to interact with data. It allows users to dynamically search for patterns and correlations that help deliver search results. Visualization effectively filters out the noise in your data while highlighting valuable information, resulting in a clear and compelling explanation. Data visualization is a powerful tool that can process complex data, transforming raw data into visual images such as charts, graphs, and maps.

OBJECTIVE

The aim of the project is to perform a crypto pool transactions using Microsoft Excel, with a particular focus on pool technology used in well-known blockchain networks such as Ethereum, Solana and Arbitrum. The goal is to evaluate key changes such as volume patterns, extraction costs, conversions, crowdsourcing, and extraction results. We hope that our research will provide investors with in-depth information about the performance of different cryptocurrency pools relative to each other. Our goal is to help investors better manage risk, improve investment strategies and make informed choices in weak and strong cryptocurrency markets. We want to show how Microsoft Excel can be a useful tool for cryptocurrency investment research and how custom dashboards can be created to see the success of crypto pools.

IMPORTANCE OF MS EXCEL

Microsoft Excel is a powerful and versatile tool that plays an important role in many industries and disciplines. Its widespread adoption stems from its ability to process, analyze and visualize data, making it essential for a variety of tasks, from simple calculations to financial models. Worksheets, formulas, and pivot tables allow users to perform complex calculations, create reports, and analyze data. Excel is an important tool for researchers, analysts, and policymakers in many fields. Its ability to process large amounts of data and perform complex data analysis makes it the first choice for academic research, business analysis and business intelligence. Excel's drawing tools increase the clarity and impact of presentations by allowing users to customize views to their specific needs.

DATA VISUALIZATION

It is important in converting complex data into simple graphics such as charts and graphs. This not only improves the quality of presentation, but also supports

INTRODUCTION

Cryptocurrency pools, especially those using leveraged strategies, have become an important part of the digital asset ecosystem, providing investors with

more resources and good risk. Understanding the performance of these pools is crucial for investors looking to profit from the volatile cryptocurrency market. In this guide, we cover the basics of using Microsoft Excel to analyze pool performance and create dashboards to visualize key metrics. With the introduction of blockchain technology, the financial landscape has completely changed, providing a transparent and decentralized platform for value exchange. In this ecosystem, cryptocurrency pools have become a popular investment method, allowing users to financially participate and co-invest in various digital assets. Investors should evaluate the success of their cryptocurrency pools to determine the effectiveness of their investments and make informed decisions. Microsoft Excel is a great tool for doing in-depth research on the performance of cryptocurrency pools. It is ideal for processing big data and extracting deep knowledge due to its good data manipulation, calculation and visualization capabilities. With Excel, investors can perform optimal analysis, create quality models, and create custom dashboards to monitor and measure pool performance. Built-in Excel dashboards allow traders to view key metrics and easily track performance. This dashboard combines relevant data into interactive charts, graphs, and tables, allowing traders to better understand pool performance. This makes it easier for traders to quickly identify opportunities, uncertainties, and opportunities. The purpose of this study is to create a dashboard to analyze the results of cryptocurrency pools and view key indicators using Microsoft Excel.

IMPORTANCE OF CRYPTO POOL PERFORMANCE

Cryptocurrency pool performance analysis is important for investors, traders, and investors in the cryptocurrency ecosystem. It forms the basis of investment decisions, effective risk management and making capital resources more efficient. Investors can determine the risk-reward of investing in different investments and stocks by evaluating metrics such as return, volatility and volatility. This understanding is essential to identify investments that provide the best profit-adjusted returns, allowing investors to diversify their portfolios and achieve a balanced business. Additionally, crypto pool performance analysis provides valuable information that helps investors and

fund managers gather market intelligence, identify patterns and generate alpha. Investors can benefit from market changes, competitive opportunities and new trends by following the stock prices of different lakes, stocks and different currencies. Investors also conduct due diligence by reviewing performance history, track records, and ownership before investing in a cryptocurrency pool. Analyzing the performance of crypto pools can serve as a benchmark to evaluate the performance of different Investment strategies and fund managers.

These tools support analysts by providing real-time information, monitoring key metrics, and aiding decision-making. As the DeFi landscape evolves, researchers continue to discover new ways to improve these dashboards and ensure they remain useful to the cryptocurrency community.

Cryptocurrency pool performance measurement helps companies and fund managers comply with regulatory standards, as well as protect investors by providing transparency into pool performance measurement and risk management.

LITERATURE REVIEW

1. Decentralized Finance (DeFi) Analysis Research Overview

- This research article provides an overview of DeFi analysis tools, including a working cryptocurrency dashboard. He talked about various measurements such as depth, commercial volume and loss, which are important in measuring the health of the lake.
- Dashboards play an important role in monitoring the DeFi protocol and optimizing mining strategies.

2. Liquidity Mining: A Comprehensive Study

- In this research paper, the author takes an in-depth look at liquidity mining, an important aspect of cryptocurrency pools. They discussed the impact of liquid assets on token value, network security, and the economy as a whole.
- This study highlights the importance of dashboards that track pool performance and allow users to effectively measure their engagement.

3. Understanding default loss for investors

- Permanent Loss (IL) is an important concept in crypto pools. This article examines IL, its causes, and its consequences for business providers. Dashboards like this can help minority partners make informed decisions about their resources.

4. Cryptocurrency Market Sentiment Analysis:

- Sentiment analysis plays an important role in understanding investors' behavior. This review article examines various sentiment analysis techniques used for cryptocurrency trading.
- Dashboards that include sentiment indicators such as the Fear and Greed Index are essential for dynamic market analysis. Allows analysts to gauge investor sentiment and predict price movements.

5. Visualizing DeFi:

Comparison of dashboard design

- This research compares different DeFi dashboards, focusing on user experience. It evaluates their usability, clarity and effectiveness in conveying complex messages.
- While not specific to crypto pools, the findings can take the form of operational dashboards. Clarity improves usability and encourages better decision making.

DATA ANALYSIS

This data was provided by Kaggle as part of the Real World Fake Data (RWFD) challenge. Analyze data to identify patterns and trends using a variety of visual analysis methods such as graphs, charts, and graphs.

However, it is important to know that the data may have limitations. It is important to be careful and take these limitations into account when drawing conclusions from the data. But these papers provide a great opportunity for data analysts to hone their skills and learn about diversity and inclusion in organizations. For data analysts interested in the cryptocurrency market, Kaggle provides insight into this rapidly growing industry.

This document covers many topics in the cryptocurrency space, including price history, market cap, market potential, blockchain tokens, sentiment analysis and more. By accessing this data, data analysts can perform in-depth analysis, discover patterns and trends, and provide recommendations to inform investment decisions, business research, and strategic planning. Additionally, Kaggle's cryptocurrency datasets often include Bitcoin, Ethereum, and more.

By leveraging Kaggle's cryptocurrency datasets, data analysts better understand the cryptocurrency market and contribute to the advancement of business knowledge and innovation. Do a search for information. Clean things up before moving on to business analysis and gaining insight.

METHODOLOGY

Data Cleaning, Mining and Analysis in Excel Dashboards: The Excel dashboard is not just about graphs and tables. It is powerful data that enables users to make informed decisions.

It is powerful data that enables users to make informed decisions. Whether you're monitoring project progress, analyzing encrypted data, or monitoring financial performance, a well-designed dashboard can well enhance your ability to gather insight by providing a summary of key measures.

1. Data Cleaning: The Foundation: Data

Remove Duplicates and Irrelevant Observations: Eliminate duplicate entries caused by merging data from various sources. Weed out irrelevant observations that don't align with your analysis goals.

Handle Missing Data: Identify and address missing values (Nulls or blanks) Impute missing data using statistical methods or domain knowledge.

Standardize Formats: Ensure uniformity in date formats, units, and categorical labels. Convert inconsistent data to a generic format.

2. Data Mining: Unearthing Hidden Gems

Data mining extracts valuable insights from your dataset.

Association Rule Mining: Uncover associations between variables

Clustering: Group similar data points together.

Classification and Regression: Predict outcomes based on historical data. Build decision trees, logistic regression models, or neural networks.

3. Filtering and Sorting: Precision and Focus:

Filtering: Apply criteria to display specific subsets data.

Sorting: Arrange data in ascending or descending order.

4. Extracting and Transforming Data:

Data Extraction: Retrieve relevant data from large datasets. Use of Excel functions.

Data Transformation: Convert data into a suitable format for analysis.

5. Excel Dashboards:

Components:

Pivot Tables: Summarize data.

Pivot Charts: Visualize trends.

Slicers: Allow interactive filtering.

Macros: Automate repetitive tasks.

REPRESENTING RESULTS

The data is analyzed in depth and detail using graphical charts to provide information about cryptocurrencies. The Donut chart of Solana, Arbitrum, and Ethereum shows the distribution in the weighted pool, highlighting the importance of each cryptocurrency in the database.

Ensures stakeholders understand the extent of Solana's contribution from time to time; This is important for making informed decisions about investment strategies and resource allocation in crypto projects.

Using bright colors and clear text to make information uncomplicated and easy to interpret is the key to visualizing good information in financial analysis.

This index is a common measure of investor sentiment in financial markets; Higher values usually indicate greed (or optimism), while lower prices again indicate fear (or negative sentiment).

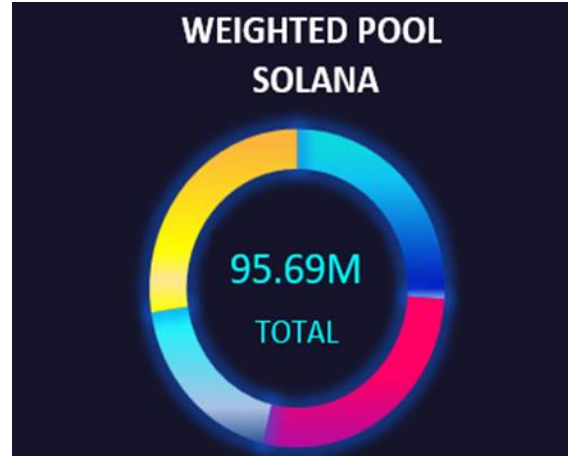


FIG: 01 WEIGHTED POOL SOLANA



FIG:02 WEIGHTED POOL ARBITRUM



FIG: 03 WEIGHTED POOL ETHEREUM

The chart shows the Fear and Greed Index for each month. This index is a common measure of investor sentiment in financial markets; Higher values usually indicate greed (or optimism), while lower prices again indicate fear (or negative sentiment).



FIG: 04 FEAR AND GREED
Track all monthly earnings for each Cryptocurrency.



FIG: 05 CASH FLOW
Summarize the profits withdrawn each month.



FIG: 06 PROFIT WITHDRAWAL
The bar graph from the figure represents crowdfunding data for a cryptocurrency project from 2023 to 2025. For a data analyst, this graph is significant because it provides insight into the growth and trends in crowdfunding in the crypto sector. Fluctuations in the

bars may indicate different levels of investor interest or market conditions affecting fundraising efforts.

Analyzing this data can help predict future funding patterns, assess a project’s appeal to investors, and strategize for upcoming crowdfunding campaigns. It is a valuable tool for understanding crypto project financing and sustainability planning.

Crypto pool performance analysis provides valuable information that helps investors and fund managers gather market intelligence, identify patterns and generate alpha. Understanding the performance of these pools is crucial for investors looking to profit from the volatile cryptocurrency market. Investors better manage risk, improve investment strategies and make informed choices in weak and strong cryptocurrency markets. We want to show how Microsoft Excel can be a useful tool for cryptocurrency investment research and how custom dashboards can be created to see the success of crypto pools.

CONCLUSION

Crypto Pool Performance Dashboard provide s analyst information with a comprehensive overview of the crypto project’s financial health and market sentiment. Weighted charts for Solana, Arbitrum, and Ethereum provide information on resource allocation, while cash flow and profit plot flows and profits over time. The Fear and Loathing Index report is especially useful for measuring investor sentiment that may affect business dynamics. Overall, this dashboard is a useful tool for monitoring cryptocurrency market activity, identifying trends, and making informed decisions. It includes important financial metrics that analysts need to evaluate the success and profitability of crypto projects.

The construction of crypto business Intelligence dashboards can be used as a reference In decision-making processes. The data cleaning process is the most important stage of producing the right information.

User involvement from process and design in result verification will greatly improve the quality of the required dashboard.

Crypto Pool Performance Dashboard supports analysts by providing real-time information. They help identify trends, assess risks and develop effective strategies. Whether you are an experienced trader or a curious investor, use these dashboards to improve your

decision-making process and contribute to a thriving crypto ecosystem.

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