Interactive Data Analysis and Visualization Dashboard

Title : Crypto currency dataset Analysis

Objective:

Cryptocurrency involves extracting data related to digital currencies from various online sources such as cryptocurrency exchanges, news websites, forums, and social media platforms. This data can encompass a wide range of information, including real-time price data, trading volumes, market sentiment, blockchain statistics and more.

Synopsis:

The dataset provides a detailed snapshot of various cryptocurrencies, capturing essential financial and market-related data. The dataset covers significant cryptocurrencies like Bitcoin (BTC), Ethereum (ETH), and others. It provides comprehensive data on each cryptocurrency's market valuation, and supply metrics.

1. **Data Import and Cleaning:**

   •Tools: Excel

   •Process: Import the crypto dataset into Excel for initial data cleaning and preparation. This includes handling missing values, creating calculated fields.

2. **Dashboard Creation in Power BI/Tableau:**

   • Tools: Power BI/Tableau
   • Process: Import the cleaned data into Power BI/Tableau to design an interactive dashboard. The dashboard will feature various visualizations, including bar charts, line charts, pie charts, and heatmaps, enabling users to explore data from multiple perspectives.

3. **Insights Extraction:**

   • **Price Trends**: Track price changes over time to observe which cryptocurrencies are appreciating or depreciating

- **Volume Trends**: Analyse how trading volume fluctuates, which may indicate periods of increased trading activity or market interest.
- **Market Capitalization Trends**: Assess changes in market capitalization, which can give insight into how a cryptocurrency's market value evolves.

- **Maximum and Total Supply**: Monitor changes in supply caps to see if new coins are being introduced into circulation.

4. Final Review and Reporting:

Process: Conclude with a comprehensive review of the dashboard, ensuring data accuracy and visual clarity. A detailed report will summarize key insights and provide recommendations based on the analysis.

5. Tools & Technologies:

- **Excel:** For data cleaning, preparation, and initial exploratory analysis.
- **Power BI:** For developing interactive dashboards and advanced visualizations.

About this file:

Name   : The name of the cryptocurrency.

Abbr   : The abbreviation or symbol representing the cryptocurrency.

Crypturl   : The URL or website associated with the cryptocurrency.

Price   : The current price of the cryptocurrency.

volume24hrs   : The trading volume of the cryptocurrency in the last 24 hours.

Marketcap   : The market capitalization of the cryptocurrency, calculated as   price multiplied by circulating supply.

Circulatingsupply   : The amount of the cryptocurrency currently circulating in the market.

Maxsupply   : The maximum or total amount of the cryptocurrency that will ever be created or mined.

Totalsupply   : The total supply of the cryptocurrency that currently exists.

date_taken   : The date or timestamp when the data was collected or extracted.

Outcome:

The project will deliver a robust, interactive dashboard with actionable insights. These insights will enable better decision-making, improved sales strategies, and enhanced overall sales performance.