**Data Analysis Report**: Bitcoin History Data

**Prepared by**: Warren Shitsama, Data Analyst

**Date**: 30th July 30, 2025

**Executive Summary**

This report presents an Exploratory Data Analysis of a dataset containing information about the history of Bitcoin, focusing on the High, Close, Open, Low and Volume for each day. The analysis is aimed to drive financial advice when deciding to invest in the financial instrument. The key findings was the robust growth the financial instrument went through from its starting point to date, giving out a 25690% price growth.

**Introduction**

Bitcoin has been the dominant cryptocurrency basing its roots in 2009 levelling out the competition due to the trust people have in it. The main objective of this report is to study the trend of the financial instrument to supplement sound financial advice.

**Dataset Overview**

The dataset has the following columns:

1. Date
2. Open
3. Close
4. Low
5. High
6. Volume

The dataset has a total of 3665 records.

**Methodology**

The analysis employs descriptive analysis and trend analysis with MySQL being the only tool used in this analysis.

The key questions asked is, what is the behavior of the instrument overtime?

**Analysis and Findings**

1. **Descriptive Findings**

**Date:** The data was first collected in September 2014 to July 2025, with a total of 3965 days in between.

**Close:** The bitcoin was first priced at $178 in 2014 to $119995 in 2025.

**Volume:** In 2014, Bitcoin had a volume of 5914570 which grew to highs of 350968000000 in February 2021.

1. **Trend Analysis**

**Daily Price Change Percentage:** The instrument displayed high volatility in its daily price movement, on some days going as low as a -37% price movement and as high as 25% price movement.

**Recent Trend analysis:** Over the last 30 days, 26 June, 2025 to 26 July, 2025, the instrument recorded highs of 4% on 10th July, 2025 and lows of -1.7% on 15th July, 2025.

**Year and Monthly Average:** The instrument displayed steady growth month by month, year by year.

**Highest volume days:** Days that recorded the highest volumes are February 2021, July 2025, and December 2024.

**Volatility:** The instrument is highly volatile posing a higher risk to investors with record highs in March 2020.

1. **Correlation Analysis**

There is a very strong correlation between price and volume

Correlation: 640786926019282.6

**Key Insights**

1. The markets in which this instrument is traded in is highly volatile posing a high risk to investors who may want to invest.
2. The exponential growth promises high returns

**Recommendations**

1. Due to the high volatility, this instrument is not advised for short-term investments.
2. Due to the trust and enthusiasm towards the instrument, reflected as volume, it is suitable for long term growth.

**Conclusion**

This instrument is highly volatile, therefore making it unsuitable for short-term trading but advisable for long-term investing.