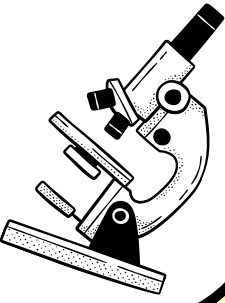


Research Questions

- 1. How did the distribution of USD/EGP exchange rates change around the time of the Egyptian Revolution of 2011?
- 2. How did the Egyptian Revolution of 2011 impact the price trend?
- 3. Was there a shift in the average USD/EGP exchange rate around the time of Interest Rate Adjustments Post Floating Exchange Rate Implementation (2016-2017)?
- 4. How did the distribution of global exchange rates change during the COVID-19 pandemic compared to before and after?



Hypothesis

The null hypothesis (H0) remains that historical events have no significant negative impact on the Egyptian pound, while the alternative hypothesis

The alternative hypothesis (H1) argues that these events do have a significant negative effect. This project aims to use hypothesis testing and statistical analysis to explore the relationship between historical events and exchange rate fluctuations, even when data is limited to yearly intervals.

Dataset

The dataset contains historical data for USD/EGP exchange rates along with related attributes.

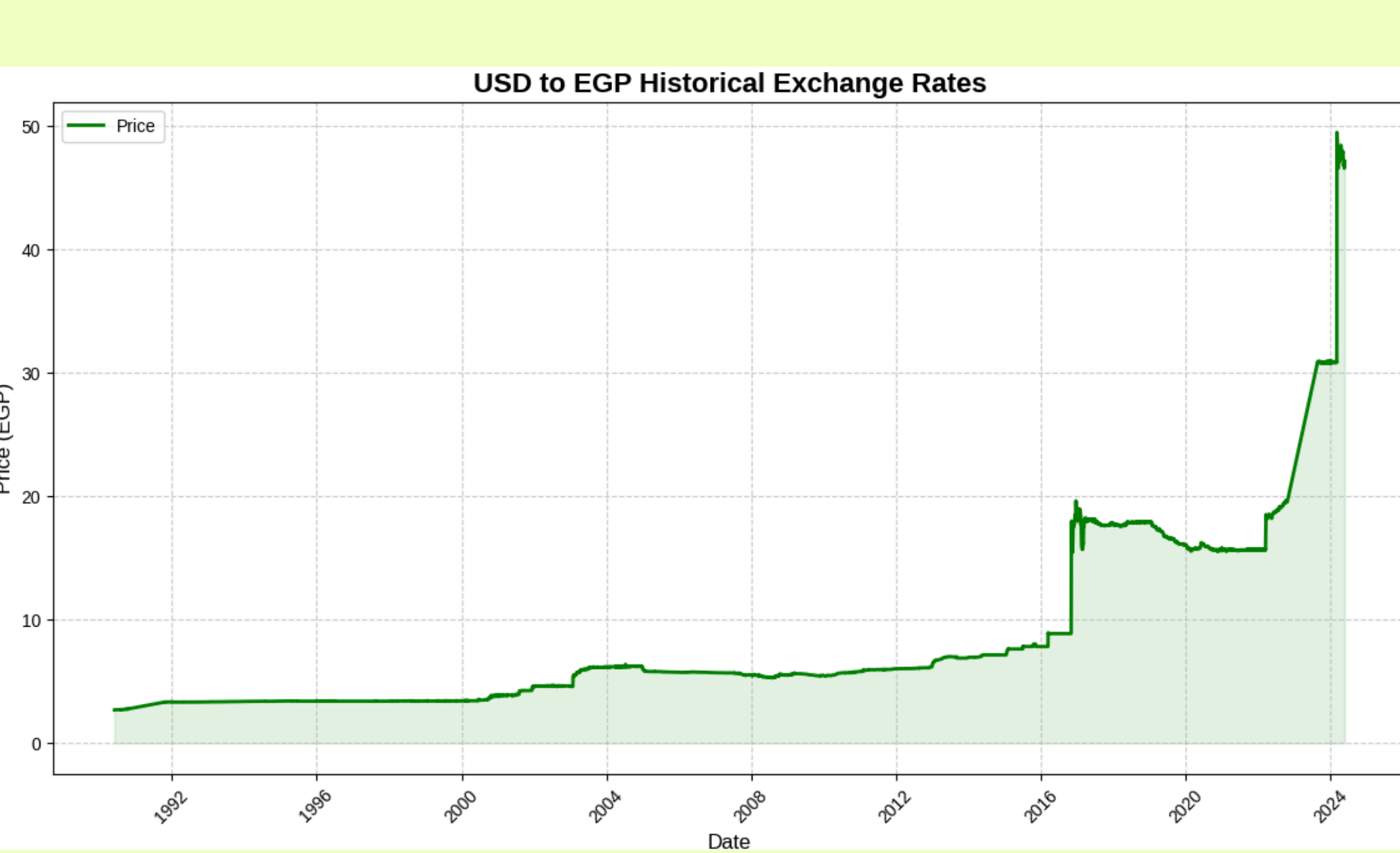
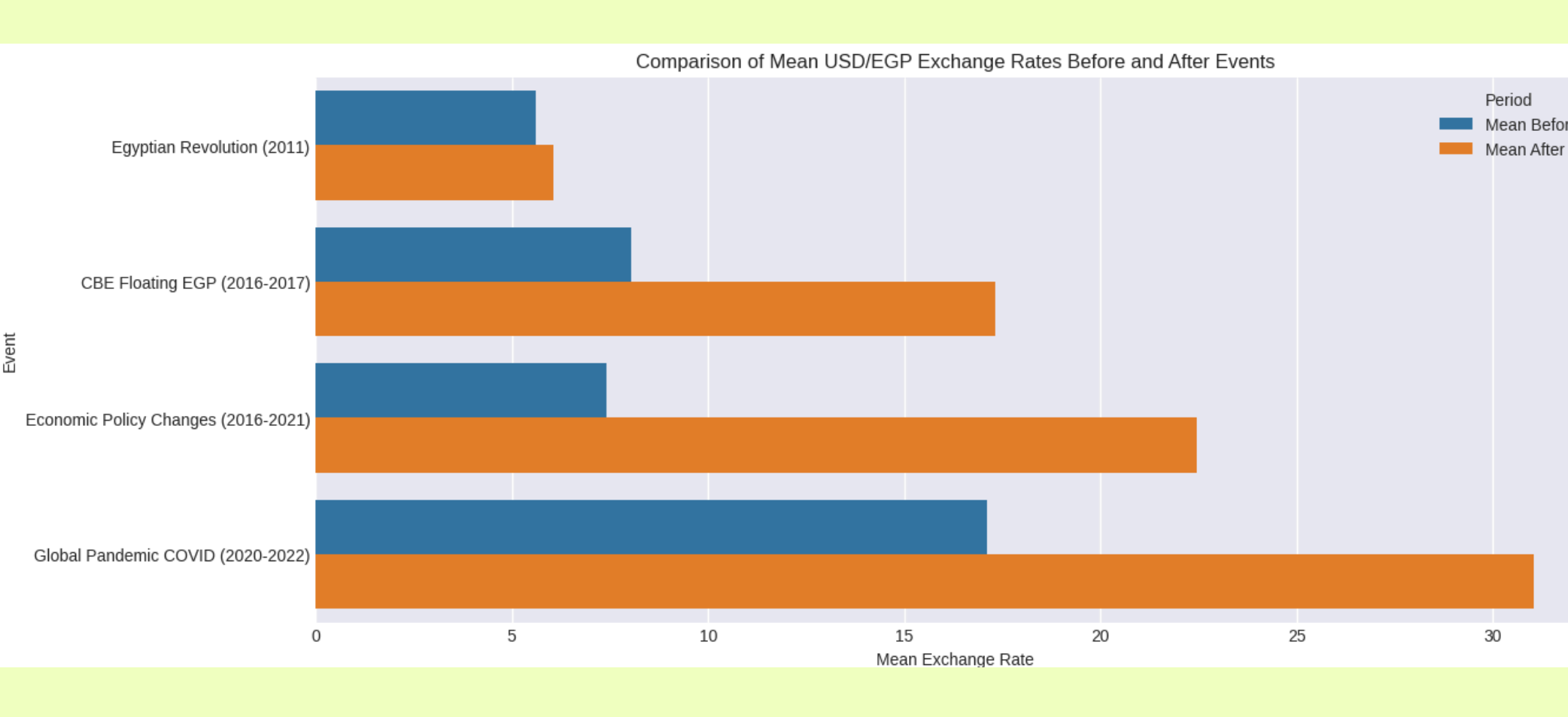
It comprises 9871 rows representing various dates and 6 columns representing different attributes. The columns represent date, price, opening price, high, low, and percentage change.

Analysis of USD/EGP Exchange Rates and Historical Events

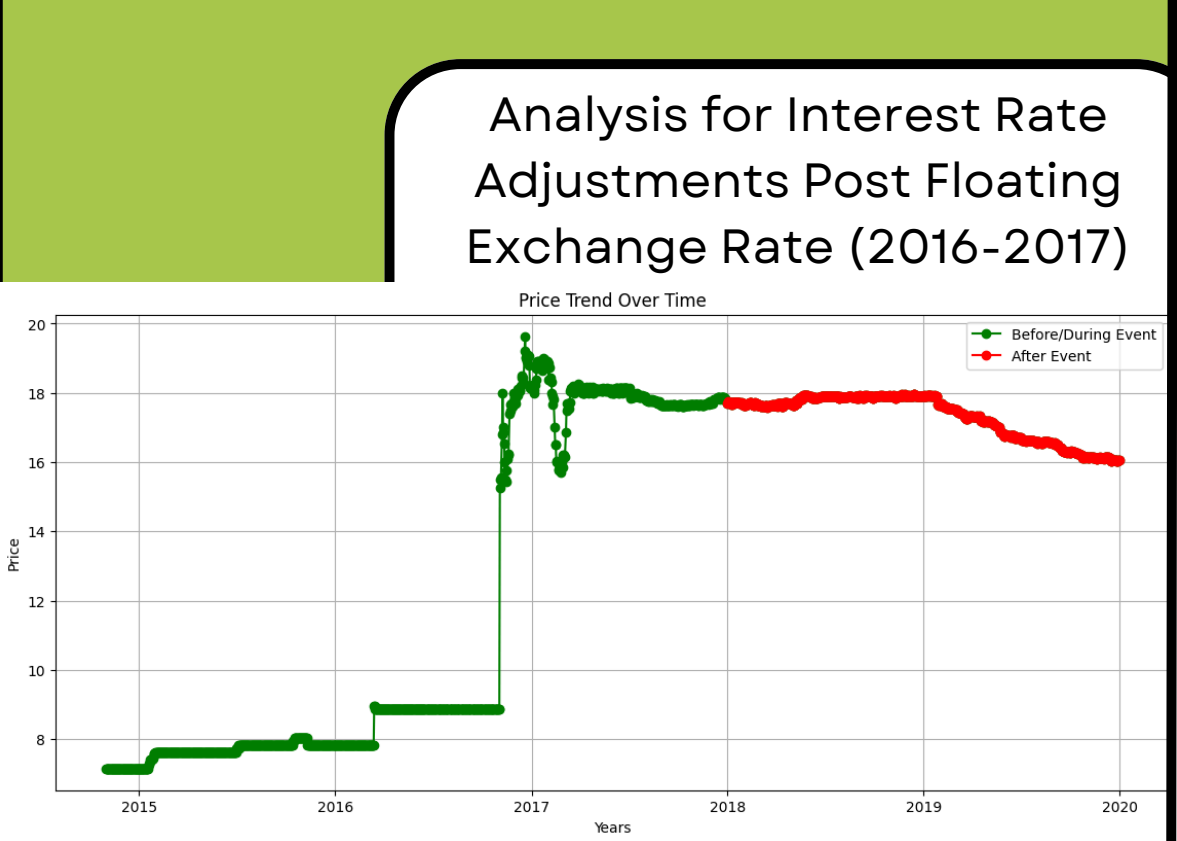
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Findings



Conclusion

In conclusion, the analysis conducted on the impact of historical events on the Egyptian pound yields compelling evidence that these events do indeed exert a significant negative influence on the currency.

Through rigorous hypothesis testing comparing mean and standard deviation before and after each event, it becomes evident that the Egyptian pound experiences a downturn following these historical occurrences.

