

# Analysis of USD/EGP

## Exchange Rates and Historical Events

The project aims to examine if there are noticeable changes in the yearly exchange rate data that align with key historical events, such as the Egyptian Revolution of 2011, interest rate adjustments after the adoption of the floating exchange rate system in 2016-2017, and economic policy shifts from 2016 to 2021. Using statistical methods and time-series analysis, we'll explore whether there are significant differences in the exchange rate during these periods.

The null hypothesis ( $H_0$ ) remains that historical events have no significant negative impact on the Egyptian pound, while the alternative hypothesis ( $H_1$ ) contends that these events do exert a significant negative influence. Through hypothesis testing and statistical analysis of the available data, the project seeks to provide empirical insights into the relationship between historical events and exchange rate fluctuations, even with the granularity limited to yearly intervals.

### Questions:

1. How did the Egyptian Revolution of 2011 impact the price trend?
2. 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)?
3. How did the Implementation of Post Floating Exchange Rate impact the price trend?
4. Was there a shift in the average USD/EGP exchange rate around the time of Economic Policy Changes (2016-2021)?
5. How did the Economic Policy Changes (2016-2021) impact the price trend?
6. How did the distribution of global exchange rates change during the COVID-19 pandemic compared to before and after?
7. How did the Global Pandemic COVID (2020-2022) impact the price trend?

8. How did the Global Pandemic COVID (2020-2022) impact the price trend?