

FX BOOST

Analyzing Exchange Rates
Over Time





Problem Statement

Design a dashboard for analyzing exchange rates between two currencies over time. Users should be able to select weekly, monthly, quarterly, or yearly charts. The dashboard should highlight the peak and lowest rates with corresponding dates

Functionality



- 1 Users can select weekly, monthly, quarterly, and yearly charts.
- 2 Display the peak and lowest rates for the given range.
- 3 Users can see the currency rate on a particular date by hovering over the chart.
- 4 Users can compare exchange rates between different currency pairs simultaneously.
- 5 Include tools for users to study historical trends.

Technologies Used

Data Pre- Processing

- Pandas
- Numpy
- Matplotlib

Graphical Representation

- Plotly

Webpage UI

- Streamlit
- Requests
- Base64
- Lottie



Features

- Global Currency Support
- Intuitive Interface
- Historical Data
- Beginner Friendly
- Real-Time Rates

Website Snippets

- HomePage
- USD Analysis
- Cross Currency Analysis

FXBoost

Welcome to FXBoost!

Your Gateway to Real-Time Currency Exchange Rates!

Unlock the world of seamless currency conversions with our user-friendly app. Whether you are a globe-trotter, a business professional, or simply keeping an eye on international markets, FXBoost is your go-to companion for accurate and up-to-the-minute exchange rates.

Key Features:

Global Currency Support

Intuitive Interface

Historical Data

Real-Time Rates

Offline Mode

Why Opt for FXBoost?

Precision and Reliability:

Count on us for accurate and reliable exchange rates sourced from trusted financial sources.



USD Analysis

Start Date

2012/01/03

End Date

2022/08/26

Select the Currency

INR

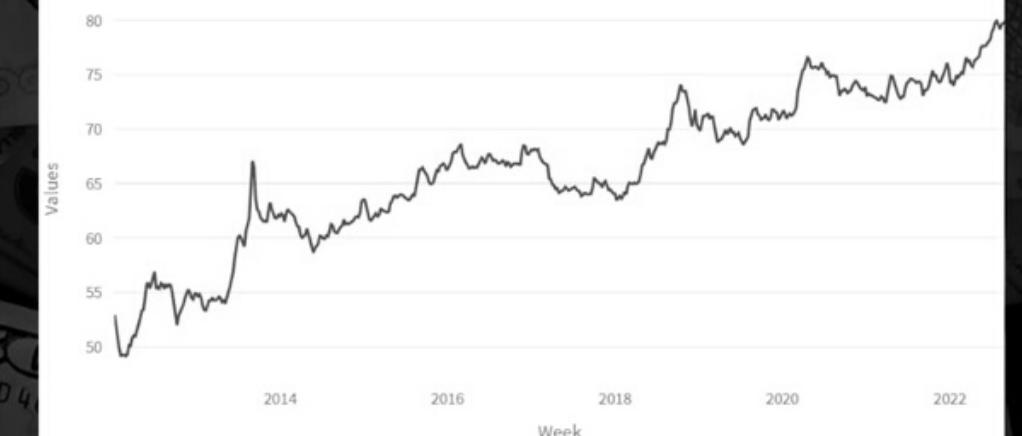
Duration

Weekly

Update Chart

Chart

Currency Values Over Time (Weekly intervals)



Maximum INR Value: 79.93136

Minimum INR Value: 49.14

Cross Currency Analysis

Start Date

2012/01/03

End Date

2022/08/26

Select the Currency1

DZD

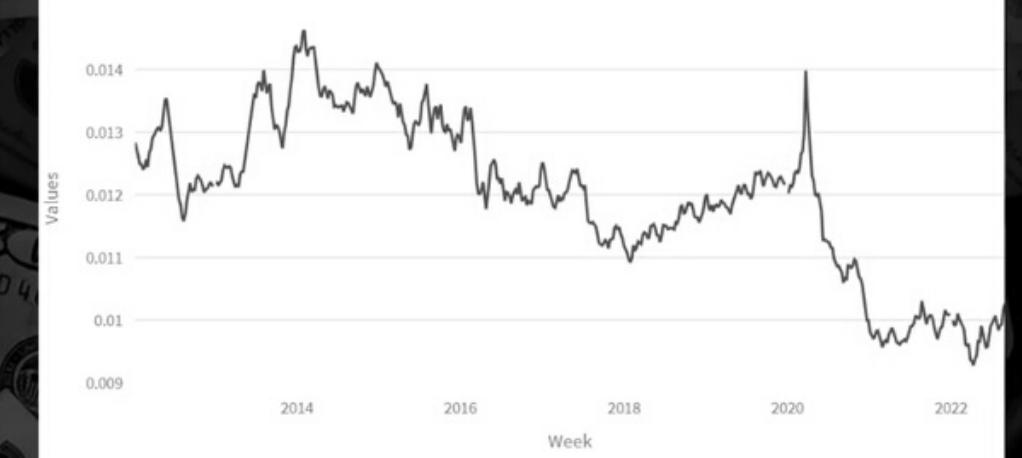
Select the Currency2

AUD

Update Chart

Chart

Currency Values Over Time (Weekly intervals)



Maximum Value: 0.014626875371862292

Minimum Value: 0.009276115238323262



Future Enhancements

- ▶ Use APIs to dynamically update database and use it to display real time currency data.
- ▶ Display future price predictions by using time series analysis which can help traders and businesses.

Thank You

