

# Egypt Gold Prices

Project Proposal, first edition

25th October 2023



## Overview:

This proposal outlines a project to visualize and analyze daily gold prices in Egyptian pounds per gram, leveraging a dataset created to bridge the gap between global market gold prices and the local Egyptian gold market. The dataset was systematically collected from Egypt. Gold price today to record these daily prices. Our goal is to provide a comprehensive understanding of the factors influencing gold prices in Egypt and to facilitate data driven decision making.

## Key Objectives:

- Analyze daily fluctuations in local Egyptian gold prices.
- Identify long-term and short-term trends within the dataset.
- Investigate any correlation between local Egyptian gold prices and global gold prices.
- Create compelling data visualizations to facilitate easy understanding of the price dynamics.
- Extract insights and patterns to provide valuable information for decision makers and investors.

## Core Activities:

- **Data Collection:** Gather daily gold price data from Egypt. Gold price today, ensuring data completeness and accuracy.
- **Data Preprocessing:** Clean, transform, and format the data to prepare it for analysis.
- **Exploratory Data Analysis (EDA):** Conduct statistical analyses and data visualization to uncover trends and patterns.
- **Interpretation:** Analyze and interpret the results to derive meaningful insights.
- **Reporting:** Summarize the findings in a comprehensive report, including data visualizations.

## Advantages:

- **Informed Decision-Making:** Access to data-driven insights on local gold price trends empowers stakeholders to make informed decisions regarding investments, trading, and market entry.
- **Market Transparency:** Visualizing gold price data enhances market transparency, promoting fair competition and trust among market participants.
- **Financial Planning:** Investors and traders can use the analysis to plan their financial strategies and mitigate risks effectively.

## Disadvantages:

- **Data Quality:** The accuracy and completeness of the data from Egypt. Gold price today may vary, requiring careful data cleaning and validation.
- **Data Limitations:** This dataset may not encompass all factors affecting gold prices, such as geopolitical events or supply-demand dynamics.

## Data Management Orientation:

- Data Security: Implement security measures to protect sensitive data and ensure privacy.
- Data Quality: Maintain data quality through validation and regular updates.
- Compliance: Adhere to data protection regulations to safeguard user privacy and maintain legal standards.

## Data Warehouse:

- Purpose: The data warehouse will be used for storing historical gold price data, enabling in-depth historical analysis and long-term trend identification.
- ETL (Extract, Transform and Load): ETL processes will be implemented to extract, transform, and load historical gold price data into the data warehouse.
- OLAP (Online Analytical Processing): The data warehouse will facilitate OLAP operations for complex historical data analysis and trend discovery.

## Tools and Technologies:

- Programming languages: Python, R.
- Data analysis tools: Pandas, NumPy.
- Data visualization libraries: Matplotlib, Seaborn.
- Data visualization platforms: Tableau, Power bi.
- Code Platforms: Jupyter notebooks or Google Colab.