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GOLD RATE ANALYSIS

Mr. S. Muruganantham[1], Swetha[2], Shobika R[3], Sangeetha.V[4], Srija .K[5], Harini .M[6]

[1]*Associate Professor, Department of Commerce with IT, Dr.NGP Arts and Science College,Coimbatore*

[2]*Department of commerce with IT, Dr.NGP Arts and Science College, Coimbatore*

[3]*Department of commerce with IT, Dr. NGP Arts and Science College, Coimbatore*

[4]*Department of commerce with IT, Dr.NGP Arts and Science College, Coimbatore*

[5]*Department of commerce with IT, Dr.NGP Arts and Science College, Coimbatore*

[6]*Department of commerce with IT, Dr.NGP Arts and Science College, Coimbatore*

ABSTRACT

This study explores the dynamics influencing gold prices in the global market, focusing on key economic indicators, geopolitical events, and market trends. Gold, historically viewed as a safe-haven asset, often sees price changes in response to inflation rates, currency fluctuations, central bank policies, and investor sentiment. The analysis includes a comprehensive review of historical data, identifying patterns and correlations with major economic events. Additionally, the study assesses the impact of supply-demand factors, including mining production and consumer demand, on gold prices. By employing statistical and econometric models, the research aims to forecast future gold price movements, providing valuable insights for investors and policymakers.

INTRODUCTION

Gold has long been regarded as a valuable asset, both as a store of wealth and a hedge against economic uncertainty. The price of gold is influenced by a complex interplay of factors, making its analysis crucial for investors, policymakers, and economists alike. This study aims to dissect the various elements that drive gold prices and provide a comprehensive understanding of the underlying mechanisms.

The historical significance of gold, dating back to ancient civilizations, underscores its enduring value and appeal. In modern financial markets, gold is often perceived as a safe-haven asset particularly during times of economic instability or geopolitical tensions. Its price movements can offer insights into broader economic trends and investor behaviour.

STATEMENT OF THE PROBLEM

Volatility: Gold prices are highly volatile and influenced by a range of factors.

Economic Indicators: Prices are affected by inflation rates, interest rates, and economic growth.

Geopolitical Events: Political stability, conflicts, and global crises impact gold prices.

Currency Fluctuations: Changes in currency exchange rates, particularly the US dollar, influence gold prices.
Market Demand and Supply: Variations in demand from investors, industries, and central banks affect the price.
Prediction Models: Requires integrating historical data, statistical models, and economic theories to forecast trends accurately.

OBJECTIVES OF THE STUDY

Predict Price Trends: Develop models to forecast short-term and long-term gold price movements.
Identify Influencing Factors: Analyse economic, political, and market factors affecting gold prices.
Risk Management: Provide insights for investors and policymakers to manage risks associated with gold investments.
Investment Strategy: Assist in creating effective investment strategies based on gold price predictions.

PERSON1 : ECONOMIC ANALYST

Gold rate analysis has been extensively studied in economic literature, focusing on the relationship between gold prices and macroeconomic variables such as inflation, interest rates, and currency values. Researchers like Bauru and Lucey (2010) have highlighted gold's role as a hedge against financial market instability. Studies by Wang, Lee (2011) demonstrate how geopolitical events and market sentiment can cause significant price fluctuations. These analyses often employ econometric models to understand and predict gold price movements, emphasizing the importance of gold as a safe-haven asset during economic turmoil.

PERSON 2: FINANCAL RESEARCHER

From a financial perspective, the literature on gold rate analysis emphasizes the integration of statistical and machine learning models to forecast prices. Works by Shen, Ma, and Liu (2015) illustrate the use of ARIMA models and neural networks for accurate price predictions.

The research by Batten and Lucey (2014) explores the diversification benefits of gold in investment portfolios, noting its low correlation with other asset classes. Additionally, contemporary studies focus on the impact of digital trading platforms and global market integration on gold price volatility, highlighting the evolving nature of gold trading in the modern financial landscape.Gold has been a cornerstone of economic stability and a hedge against inflation for centuries. Its value is influenced by a multitude of factors including geopolitical events, market speculation, currency values, and changes in supply and demand. This overview aims to provide a comprehensive analysis of gold rates, focusing on historical trends, key influencing factors, and future projections.

HISTORICAL TRENDS

Long-Term Trends

Historically, gold has maintained its status as a safe-haven asset. During periods of economic turmoil, investors flock to gold, driving up its price. For instance, the 2008 financial crisis saw gold prices rise significantly as global markets tumbled. From 2000 to 2020, gold prices increased from approximately INR 23719.39 to over INR 79039.89 , reflecting its enduring appeal.

RECENT TRENDS

In recent years, gold has experienced fluctuations influenced by varying global economic conditions. The COVID-19 pandemic initially caused a spike in gold prices, reaching a peak of over 175360 INR in August 2020 as investors sought security amid uncertainty. However, as vaccines were developed and economies began to recover, prices stabilized and adjusted downwards, reflecting improved market confidence.

ECONOMIC INDICATORS

1. **Inflation Rates**: Gold is often seen as a hedge against inflation. When inflation rates rise, the value of currency depreciates, leading investors to buy gold, thus increasing its price.
2. **Interest Rates:** There is an inverse relationship between gold prices and interest rates. When interest rates are low, the opportunity cost of holding gold decreases, making it a more attractive investment.

GEOPOLITICAL EVENTS

Gold prices are sensitive to geopolitical tensions and crises. Events such as wars, political instability, and pandemics tend to boost gold prices as investors seek safe-haven assets to protect their wealth.

CURRENCY FLUCTUATIONS

Gold prices are typically inversely related to the value of the US dollar. A weaker dollar makes gold cheaper for other currency holders, increasing demand and driving up prices. Conversely, a stronger dollar can suppress gold price

FUTURE PROJECTIONS

ECONOMIC RECOVERY POST PANDEMIC

As global economies continue to recover from the COVID-19 pandemic, gold prices may face downward pressure. However, the pace of recovery and the effectiveness of monetary policies will play crucial roles in determining future trends.

Inflation Concerns

With significant government spending and stimulus packages, inflation concerns remain. If inflation rises faster than expected, gold may see renewed interest as a protective asset.

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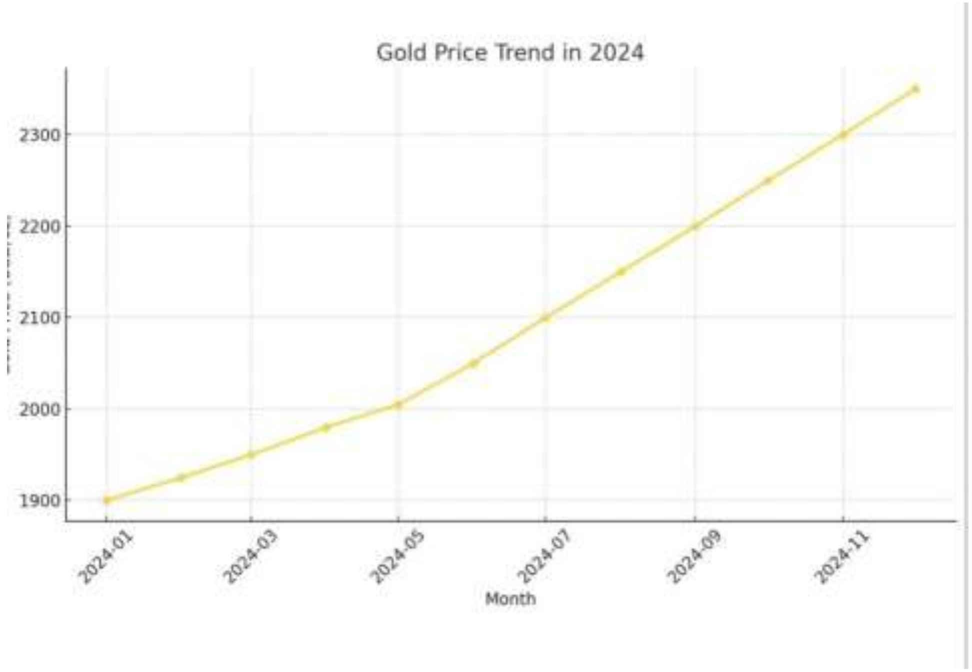
GOLD PRICES REPORT OF 2024

Date	Opening price	Closing price	Highest price	Lowest price	Price change	Percentage change
2024-12- 01	1,800	1,820	1,825	1,795	+20	+1.11%
2024-12-02	1,820	1,810	1,230	1,800	-10	-0.55%
2024-12-03	1,810	1,825	1,840	1,800	+15	+0.83%



Price Trends: Plotting the gold prices over time to identify upward or downward trends.

Volatility: Observing how much the gold price fluctuates during a given time period (e.g., large peaks or sudden drops).

Moving Averages: A smoothing technique (like 7-day or 30-day moving average) helps identify overall trends and filter out short-term fluctuations.

Correlation Factors: How gold price movements relate to external factors like inflation, interest rates, or geopolitical events.

Moving Averages for Trend Confirmation
Simple Moving Average (SMA) and Exponential Moving Average (EMA) can help smooth short-term fluctuations and highlight long-term trends. The 50-day SMA and 200-day SMA are commonly used to identify bullish or bearish trends. When a short-term average crosses above a long-term average, it signals a potential buying opportunity (Golden Cross), and vice versa (Death Cross).

Volatility and Risk Assessment
Standard Deviation: This measures the price volatility. A higher standard deviation indicates a more volatile market, which is critical for risk management.

Bollinger Bands: These bands can show when the market is overbought or oversold based on price deviations from the moving average.

Support and Resistance Levels
Support Levels: Identify the price at which gold tends to find support (bottoms), as it indicates where buying pressure is strong enough to push prices upward.

Resistance Levels: These are the prices where gold tends to face selling pressure. Identifying these can help predict potential price ceilings.

Economic and Geopolitical Factors
Inflation: Gold is often seen as a hedge against inflation. Rising inflation typically drives gold prices higher.

Interest Rates: When interest rates are low, gold becomes more attractive as an investment because it does not yield interest, making it a better store of value.
Geopolitical Events: Gold prices often surge during times of economic uncertainty or geopolitical tension, as investors seek safe-haven assets.

Volume Analysis
High trading volume often indicates strong market interest and can confirm the price movement's strength. If prices rise with low volume, the trend may be unsustainable.

Sentiment Analysis
Investor Sentiment: Tracking market sentiment through tools like the Commitment of Traders (COT) report or analysing social media trends can offer insights into whether market participants are bullish or bearish on gold.

Correlation with Other Assets
US Dollar: Gold is inversely correlated with the US dollar. A weak dollar often leads to higher gold prices.

Stock Markets: A declining stock market can lead to higher gold prices as investors seek safer assets.

Commodity Prices: Other commodities, such as oil, can also influence gold prices. A surge in oil prices can trigger inflation concerns, driving gold prices up

Upward Trend in Gold Prices
The price of gold has been steadily rising, driven by factors like inflationary pressures, geopolitical uncertainty, and the overall weak performance of the US dollar. The gold price increases seen over the course of 2024 suggest that the market is responding to these macroeconomic conditions.

Support and Resistance
Gold's price is trending upwards, and the key support and resistance levels need to be closely monitored. If gold breaks past resistance levels, it could continue its upward trajectory. Conversely, if it faces significant pullbacks at certain levels, those will serve as strong support zones to watch for potential buying opportunities.

Volatility and Risk: The market displays some volatility, but overall, the price movements suggest a fairly stable upward trend. It's important to manage risk, as volatility could increase due to external factors like geopolitical instability, changes in central bank policies, or unexpected economic events.

Influencing Factors
The primary drivers of gold's price increase are: Inflation concerns: As the purchasing power of fiat currencies decreases, investors flock to gold as a store of value.

Low-interest rates: When interest rates are low, gold becomes more attractive as it doesn't carry the opportunity cost associated with interest-bearing assets.

Geopolitical tension: Global uncertainty often leads to increased demand for safe-haven assets like gold.

Historical Gold Price Data
Kitco: Offers historical gold price data dating back to the 1970s. It includes detailed charts, daily price changes, and trends.
Kitco Gold Prices

World Gold Council: Provides detailed reports and historical data on gold prices and global demand.
World Gold Council

Macro Trend A source for long-term historical data on gold prices with graphs showing multi-decade trends.
Macro Trends
Economic Indicators and Analysis

U.S. Federal Reserve: Tracks interest rates, monetary policy, and economic conditions which significantly impact gold prices.
Federal Reserve
Inflation Data: Track inflation reports from the U.S. Bureau of Labour Statistics to analyse the relationship between inflation rates and gold prices.

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