HCL INTERNSHIP - GOLD PRICE PREDICTION USNING MACHINE LEARNING

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ABSTRACT:

Historically, gold is one of the valuable materials that is used for funding trading purchases. The countries with gold deposits are considered as prosperous nations. The financial strength of the country is reflected by its gold reserves. Gold rates are influenced by world's leading economies performance. In traditional events of Asian countries, gold is also presented as gifts/souvenirs and in marriages, gold ornaments are presented as Dowry in India, Pakistan and other countries. In addition to the demand and supply of the commodity in the market, the performance of the world's leading economies also strongly influences gold rates. To analyze the correlation between the economic variables and the gold prices, there are several studies available.

The project "Gold price prediction" aims to predict the price of gold using machine learning. Generally, for predicting economic variables, machine learning is used. We use the Supervised learning algorithm like Random forest regressor to train a model for predicting the gold price. Our prediction models will be beneficial for investors, and central banks to decide when to invest in this commodity.

TECHNICAL LANGUAGES USED:

- **PYTHON**
- **HTML**
- **CSS**
- **FLASK**

SCOPE:

- This application is used to predict the future gold prices using by entering the some required values like silver, platinum, and palladium etc .it is build using machine learning algorithm called random forest regressor.

Approach:

- Select an open source gold prices dataset from web and train our machine learning model to predict the gold prices using some algoritms
- By building a graphical user interface we can predict and show our outputs on these web pages
- Connect the machine learning model and the gui's using flask

Software requirements:

- Jupyter notebook/google colab
- Visual studio code
- sublime
- chrome

Flow chart