Predicting ABC Bank's Closing Price Using Regression Techniques

The stock market is a fast-paced and ever-changing environment where investors constantly strive to make informed decisions to maximize their returns. Accurate predictions of stock prices are crucial for making these decisions. With the advancement of machine learning and data science, predicting stock prices has become a popular area of research, as these models can potentially offer more reliable predictions than traditional methods.

This case study aims to predict the **closing price of ABC Bank's stock** using regression techniques, focusing on leveraging historical stock data. By analysing various features such as the open price, high price, low price, trading volume, and the closing price itself, this project will build a machine learning model to predict the future closing price of Yes Bank's stock. The goal is to develop a model that can help investors make data-driven decisions, allowing them to anticipate future market movements with greater accuracy.

Problem Statement:

The stock market is known for its volatility, and accurately predicting stock prices is a complex and challenging task. Investors rely on historical data to make predictions about future stock prices, but the dynamic nature of the market introduces significant uncertainty.

We are specifically focusing on predicting **ABC Bank's closing price** using historical stock data. The problem at hand is to develop a **regression model** that can accurately forecast the closing price of ABC Bank's stock based on various features from historical data. The key challenge is to effectively preprocess the data, engineer meaningful features, and apply appropriate regression techniques to minimize prediction errors.

By successfully building a predictive model, this case study aims to provide a valuable tool for investors and financial analysts looking to predict the future performance of ABC Bank's stock, thereby aiding in more informed decision-making processes.

Dataset: data_Bank_StockPrices