Project Title:

StockAssist: A Stock Market Analysis tool built with IBM Granite 7B LAB Model

Short Description

An AI-powered platform providing investors and businesses with real-time stock market analysis by generating insights and visualising price data etc. to drive informed decision-making.

Long Description

Problem Statement:

Many individual investors and financial advisors struggle to effectively analyse stock performance, identify potential investment opportunities, and mitigate risks. Most of the stock related information is scattered across various third party apps and websites which makes it hard for the investor to gather relevant information. Traditional methods often involve complex financial analysis, time-consuming research, and a lack of personalised insights, that are not readily available.

Solution:

Our StreamLit application, powered by the IBM Watson Granite 7B LAB model, offers a user-friendly solution to these challenges. By providing comprehensive stock analysis, generating actionable insights, and visualising price trends, all in one place our app empowers users to make informed investment decisions.Our app also provides ground-work to build your stock information on and then you are open to further consultation if you want to.

How it works:

The code leverages the IBM Watson Granite 7B LAB model to analyse stock performance. It takes user input of a stock ticker, extracts key metrics from historical data, prepares a summarised input text, and sends it to the model. The model generates insights, strategies, and potential risks based on the input and its internal knowledge. The results are then displayed on a Streamlit app interface.

Target Audience:

- **Individual Investors:** Those seeking to invest in the stock market but lacking the expertise or time to conduct in-depth analysis.
- **Financial Advisors:** Professionals looking to enhance their client services by providing data-driven insights and recommendations.
- **Beginners:** Individuals new to investing who need guidance and support in understanding stock market dynamics.

Key Features:

- **Real-Time Market Analysis:** Continuously monitors stock market and provides real-time updates on trends, helping investors stay ahead of market shifts.

- **AI-Generated Strategic Recommendations:** Uses pre-trained AI models to analyse market data and social media sentiment, generating strategies,insights and potential risks associated with a stock.

- **User-Friendly Dashboard:** A visually appealing and easy-to-use dashboard, allowing users to interact with data and insights seamlessly.

- **Customizable Insights:** Users can input any stock ticker to have access to its information and price fluctuation charts in just a few seconds.

Technology & Category Tags: AI, Machine Learning, Finance, Stock Analysis, Visualisation

Category Tags: Business Strategy, Market Analysis, AI-Powered Solutions