

interim_Project_ Stock Analysis App

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Issue

- Investors often struggle to analyze multiple stocks efficiently and make informed decisions due to the overwhelming amount of data available. Filtering stocks by industry, sector, and other key metrics can be time-consuming.
- Why It Matters: Making informed investment decisions is critical for financial success. Without the right tools to analyze historical stock data and key indicators, investors may miss out on important trends or make poor decisions that could result in financial loss.

Solution

- The Stock Analysis App
- an analysis tool
- provides a user-friendly platform for investors to analyze stocks from the S&P 500 and Nasdaq. Users can explore stock data, visualize historical performance, track moving averages, and manage portfolios—all in one place.
- WebApp , streamlit
- PC , MAC ,phone :OK
- web browser : OK

Target Users

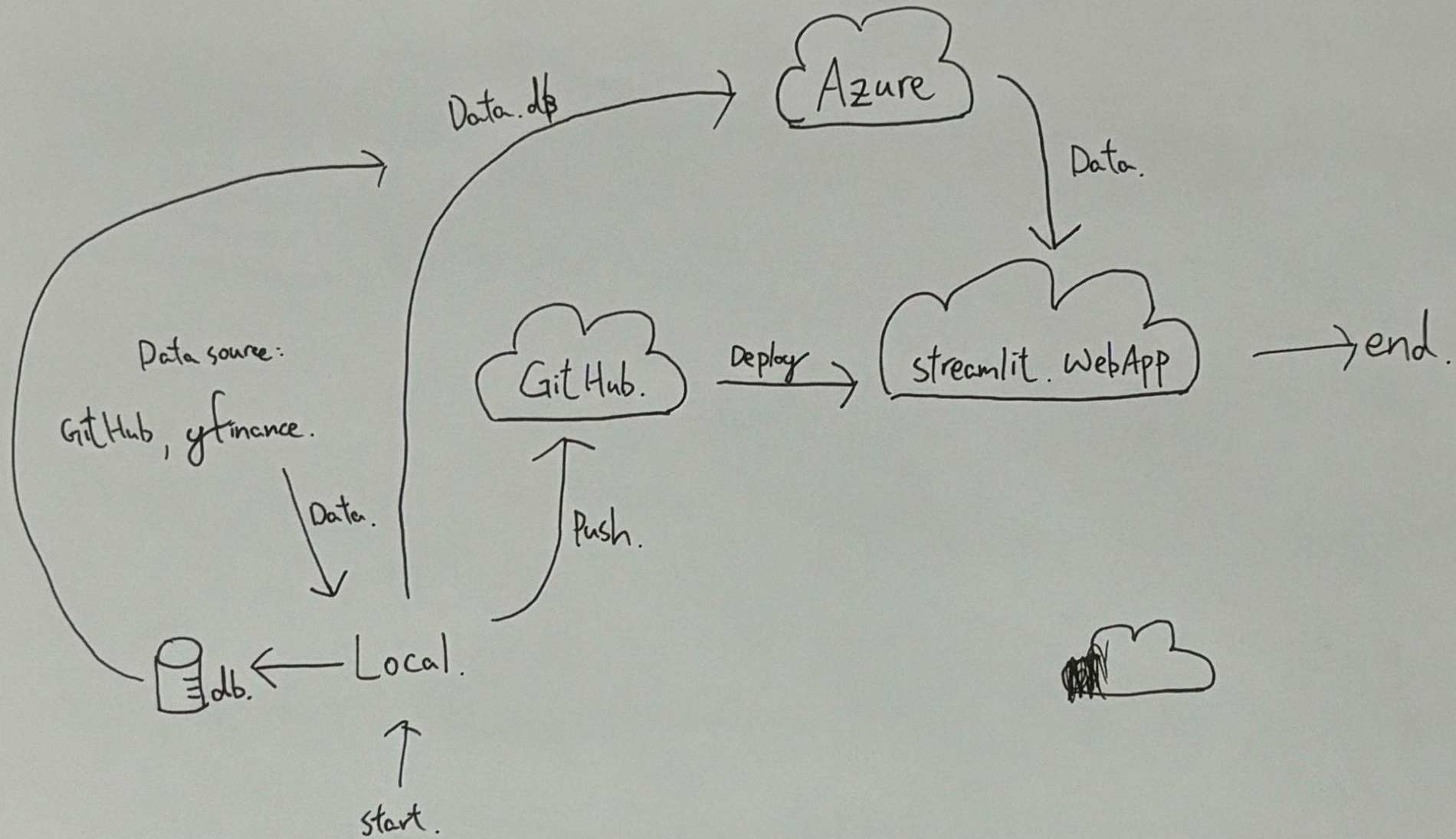
- Investors and traders interested in analyzing stocks.
- Financial analysts who need interactive visualizations.
- Beginners looking for a simple tool to understand stock performance.

Aim

- Help user to find out the Support and resistance
- Help user make decision
- Portfolio manage
- Sp 500 , Nasdaq

Features

- Stock Information and Overview: Users can view company details, stock prices, and market data for S&P 500 and Nasdaq companies.
- Data Filtering and Visualization: Filter companies based on sectors and sub-industries, and visualize stock performance with candlestick charts and moving averages.
- Stock Metrics and Indicators: View key metrics such as 52-week high/low, relative strength index (RSI), and moving averages (MA, EMA).
- Portfolio Management: Users can simulate buying and selling stocks, track their portfolio, and view a summary of holdings.



Buy (long)

- Buy low sell high

Short

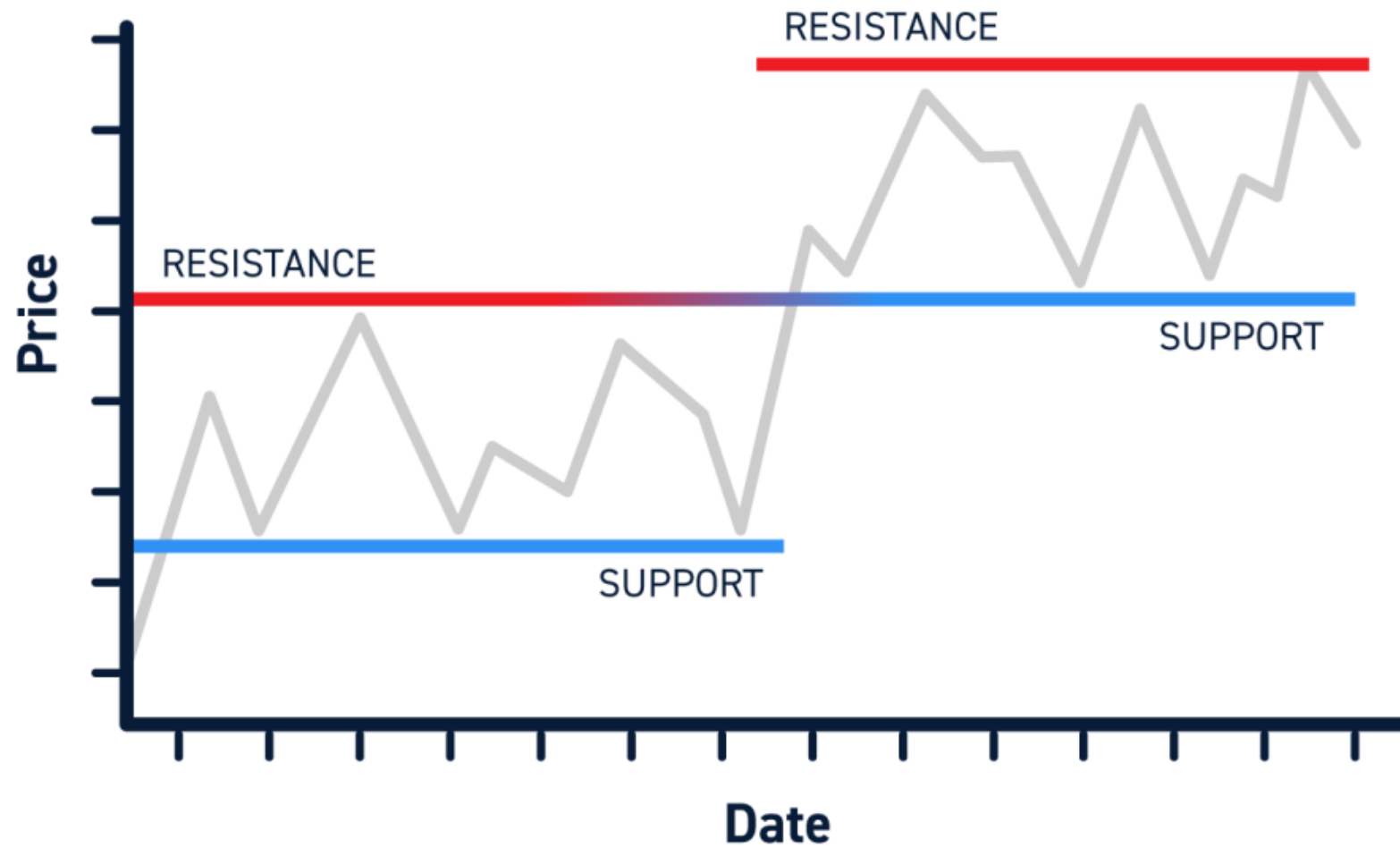
- sell high Buy low

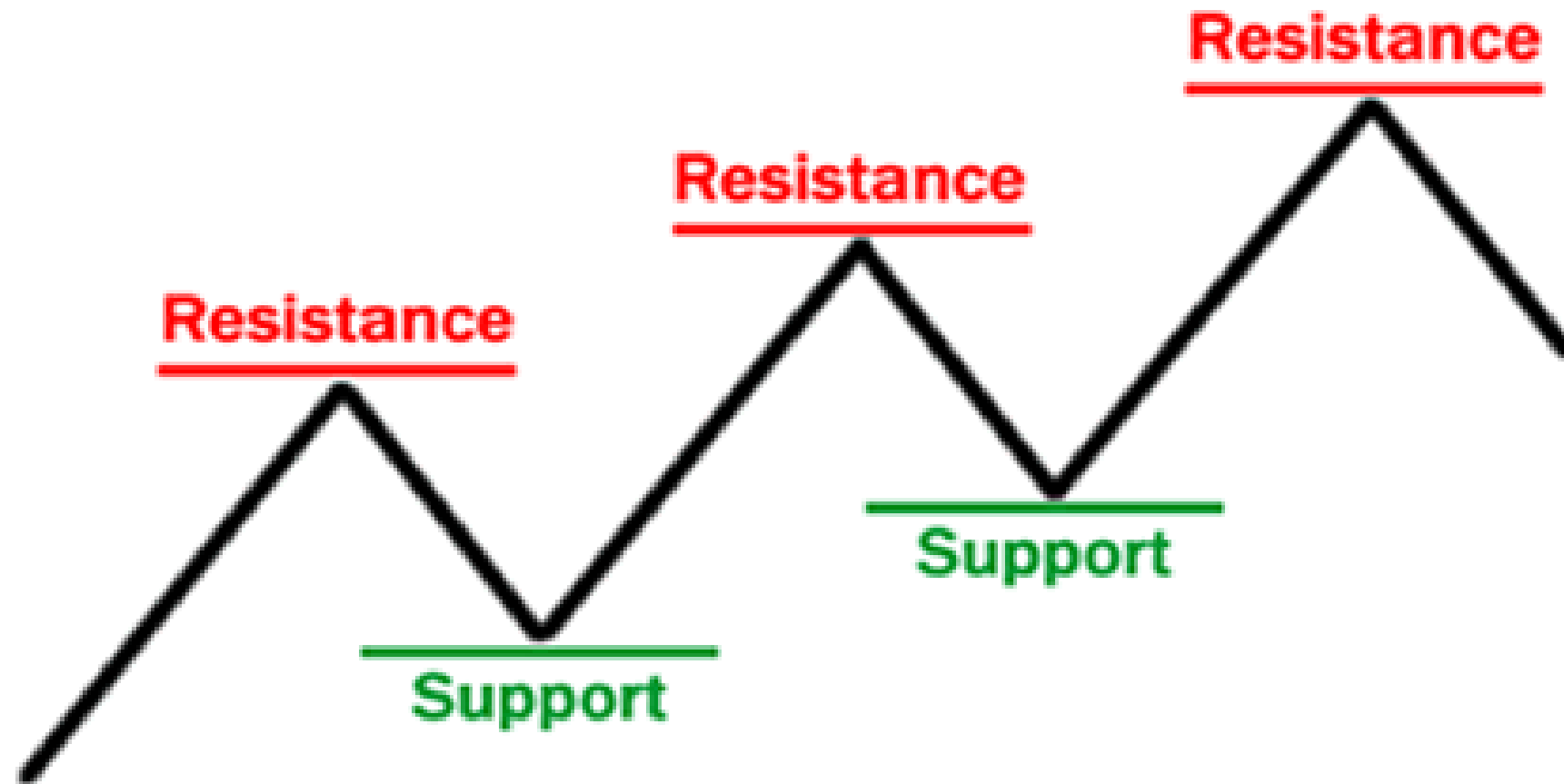
Risk

- Buying has limited risk (the amount invested), while shorting has unlimited risk (theoretically, prices can rise indefinitely).

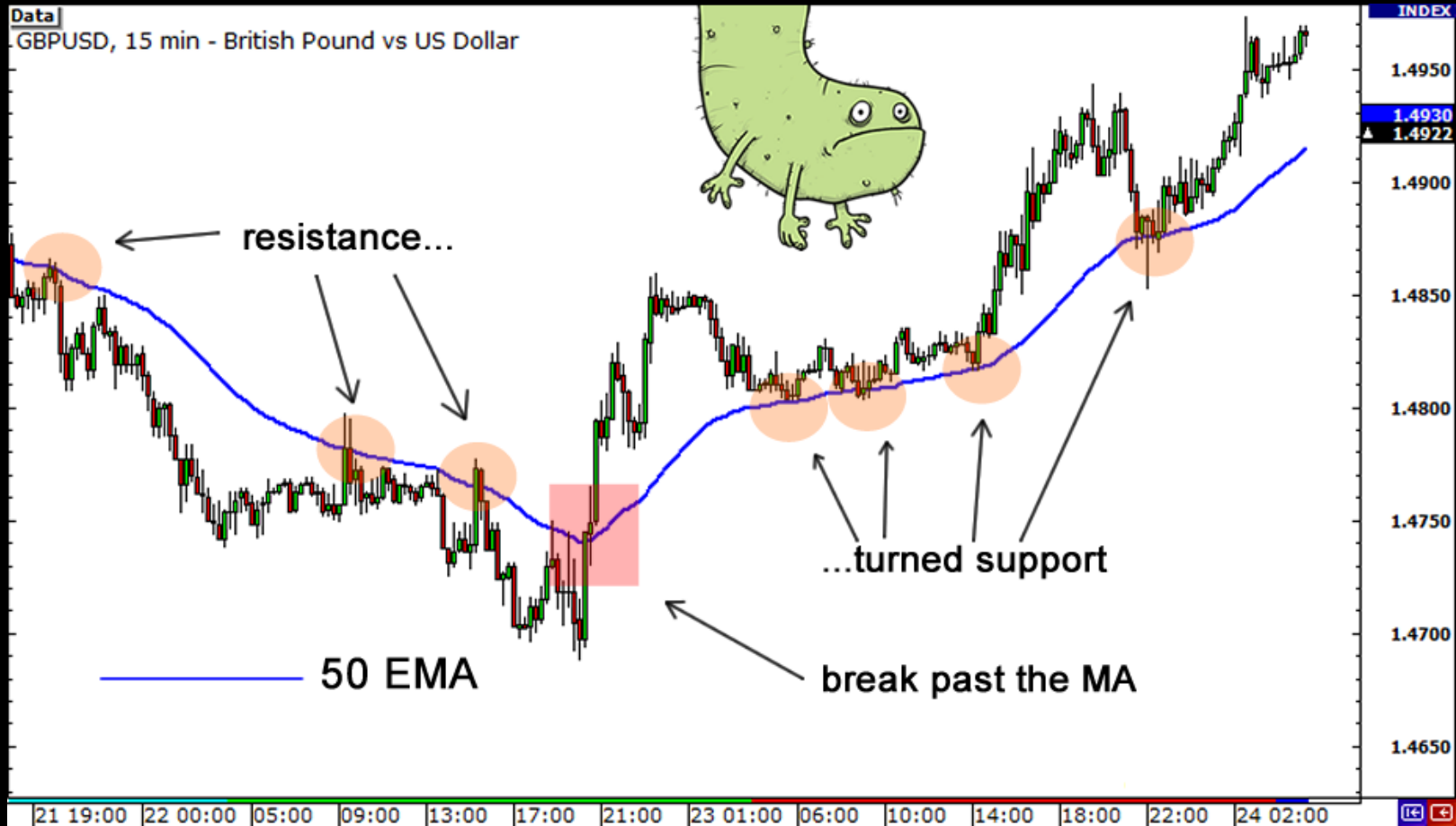
Support and resistance

Resistance & Support Levels









- <https://donavan02-stock-app.streamlit.app/>