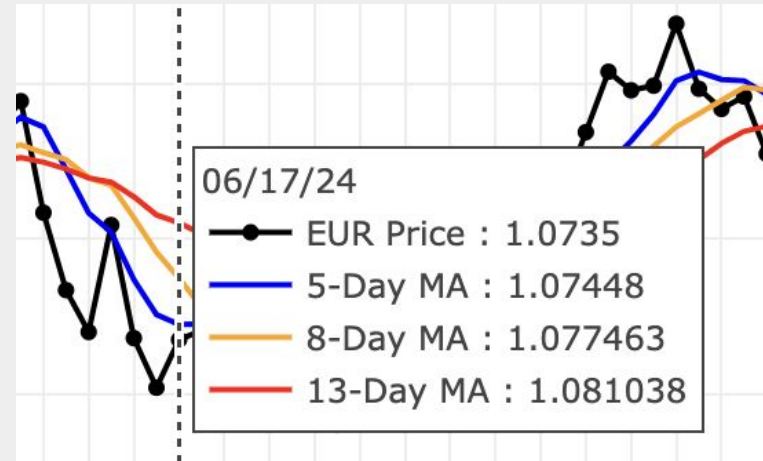
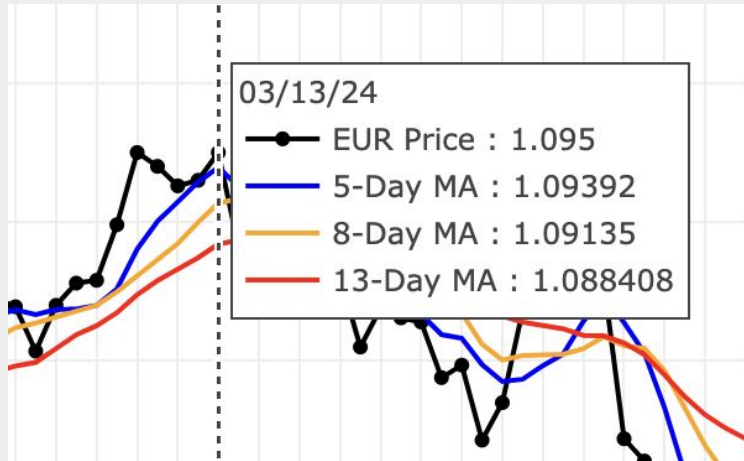


What is the 5-8-13 Strategy?

- Short term trading strategy
- Analyze the trend between the 5th, 8th, and 13th day moving averages (MA)
 - A **moving average** is just the **average of closing prices** over a certain number of days.
- Easy to identify buy/sell signals
 - 5 day MA > 8 day MA > 13 day MA = Buy Signal
 - 5 day MA < 8 day MA < 13 day MA = Sell Signal



Data Pipeline

- [WSJ](#), exported a years worth of data (1/1/24-1/1/25) for the EUR, JPY, and CAD currencies against the USD
 - Each set of data gave us the Open, High, Low, and Close price values within each month
- Data manipulation:
 - Data is stored in a separate table for each currency pair - placed into a SQLite DB
 - From SQLite, Flask serves the data to our frontend via an API
- Angular integration:
 - Fetches data using a GET request, returns a JSON containing each table's data
 - Plotly is used to plot each set of data after consumption

Q's we answered

- In what circumstances does it work (margin of error/success rate during the purchasing and selling points)
 - It doesn't seem to work with just analyzing the closing price.
 - Might work better with more indicators
 - RSI, Volume
- What are the returns after a bullish crossover
 - The algorithm usually loses
- How might the method perform trading against another currency
 - The algorithm worked best with USD/JPY
 - It failed with EUR/USD and USD/CAD



