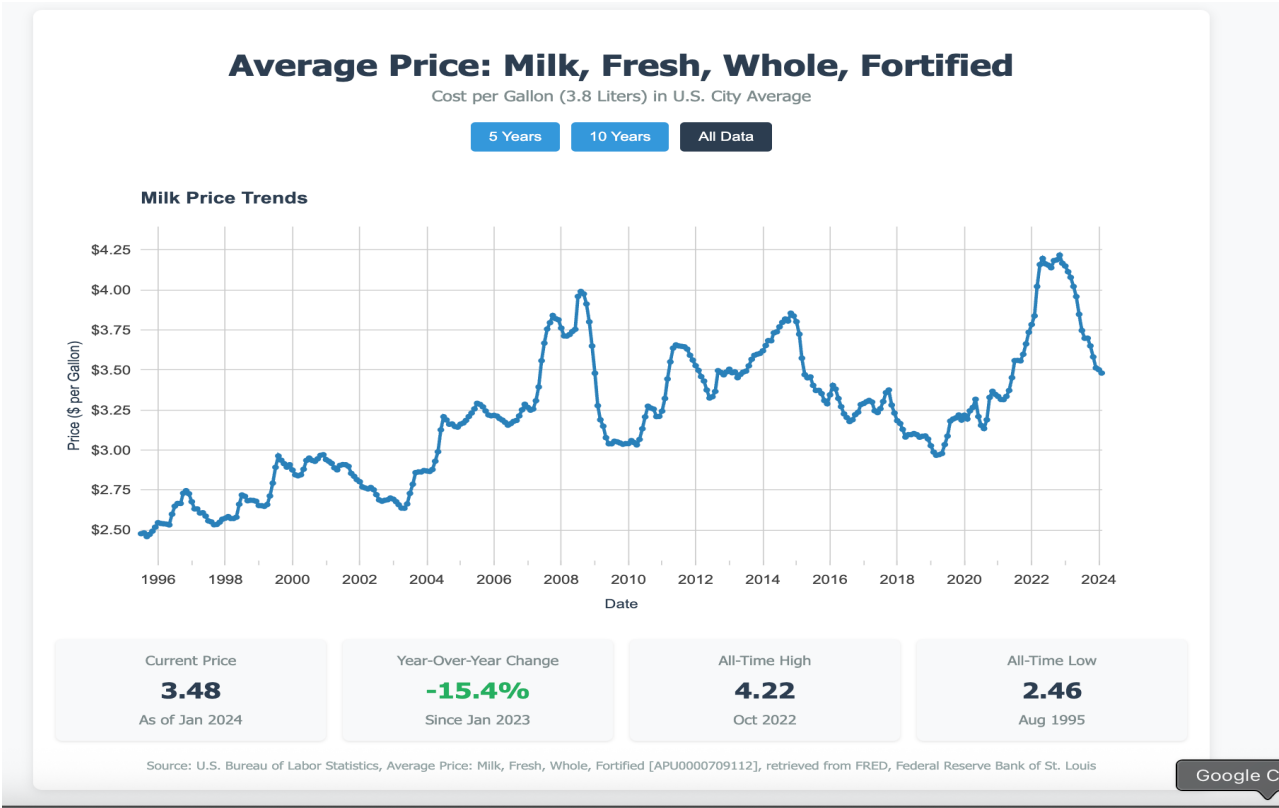


Part A :



Average Price: Milk, Fresh, Whole, Fortified

Cost per Gallon (3.8 Liters) in U.S. City Average

5 Years

10 Years

All Data

Milk Price Trends



Current Price

3.48

As of Jan 2024

Year-Over-Year Change

-15.4%

Since Jan 2023

All-Time High

4.22

Oct 2022

All-Time Low

2.46

Aug 1995

Source: U.S. Bureau of Labor Statistics, Average Price: Milk, Fresh, Whole, Fortified [APU0000709112], retrieved from FRED, Federal Reserve Bank of St. Louis

Part B:

Prompt Engineering to render the same graph on ChatGPT Interface.

Using the FRED API, please retrieve the time series data for "Average Price: Milk, Fresh, Whole, Fortified (Cost per Gallon/3.8 Liters) in U.S. City Average" (series ID: APU0000709112) for the last 10 years in JSON format. Then, generate a complete HTML document with JavaScript that leverages the Google Charts API to render an interactive line chart displaying this data. The chart should have the following features:

- A smooth curve (using the "curveType" option).
- A clear chart title and labeled axes.
- Date input controls ("From Date" and "To Date") that allow users to filter the displayed time series data by a custom date range.

Please ensure the code is self-contained and can run directly in a browser. Also, include instructions on where to insert the FRED API key.