Forward Deployed Engineer

Overview

The US Federal Reserve's *Monetary Policy Report* describes how employment, labour force participation, wages, and sector-level economic conditions evolved over the past year. It highlights trends such as strong labour market gains for lower-wage workers, modest improvements in participation among other groups, and ongoing shifts in financial conditions. These insights are presented across dense narrative sections.

Analysts frequently need to answer targeted questions such as:

- "Which demographic groups saw the largest employment gains last year?"

- "What evidence does the report provide regarding wage pressures in low-wage sectors?"

- "How have recent labour market developments contributed to inflation?"

However, the required information is dispersed throughout the *Recent Economic and Financial Developments* section, making manual extraction slow and error-prone. Build a retrieval system that allows analysts to ask natural-language questions and receive precise answers.

Requirements

- Analyst-facing UI supporting free-text economic queries.

- Retrieved results must include:

    o Employment trend summaries.

    o Wage growth explanations.

    o Labor-force participation insights.

    o Demographic comparisons.

Deliverables

- Demo of the system and executable codebase

- High level overview of the solution

Dataset

https://www.federalreserve.gov/monetarypolicy/files/20240705_mprfullreport.pdf
(Focus on Part 1)