📊 Shiny App Requirements (20%):

• Title + intro paragraph on first page

• Multiple tabs (not all graphs on one page)

• Description of research scope and requirements

• Backlog of ideas and concepts

• Clean form and functionality with clear, labeled visualizations

📈 Charts & Data (40%):

• Use at least two related datasets

• Join them to find insights (e.g., Wage + CPI, Wage + COLI)

• Use color, legends, and labeling for clear communication

• Make judgment calls on number and type of charts

🔄 GitHub Kanban Board (10%):

• Track who’s working on what

• Update progress visibly

🤖 Optional: Prediction Model (10% Bonus):

• Choose one model

• Use LLM to pick a second model with APA-cited rationale

📂 Code Documentation (10%):

• Only include code snippets in README.md

• Maintain clean folder structure: /data, /www, /images, etc.

• Include your Shiny app link

🎤 Presentation (10%):

• Business casual, no slides

• Walk through your Shiny app live

Project Topic Title: **Inflation vs. Wage Growth: Are Incomes Keeping Up?**

Dataset List

📊 1. Wage Estimates – Kaggle

• 🔗 Link: https://www.kaggle.com/datasets/bls/wage-estimates

• 📄 Includes: Annual wages by occupation, region, year, total employment, percentiles, etc.

📈 2. CPI + Inflation Rate – Kaggle

• 🔗 Link: https://www.kaggle.com/datasets/tunguz/us-consumer-price-index-and-inflation-cpi

• 📄 Includes: Monthly CPI data and pre-calculated annual inflation rates from 1913 onward

🏠 3. Cost of Living Index by State – Kaggle (MERIC)

• 🔗 Link: https://www.kaggle.com/datasets/lukkardata/cost-of-living-missouri-economic-research

• 📄 Includes: Yearly cost of living index by state (national average = 100)

Problems faced:

* While loading the CPI, I could only load from 2004-14, was planning to do 20 years till 2024 but the only option was to input manually
* Use this as a baseline for comparison (e.g., how 2014 wages hold up against recent COLI)

Questions for later after finishing the project

* Why only 2004-14 and not the latest; Will use as a baseline for comparing 2014 wages to modern cost of living WHY
* Check the description for kanban board
* Remove unecessary codes and clean data
* Make shiny app cleaner