AI Augmented Software Engineer: Assignment

Objective

Your objective is to build a functioning **AI application** that allows a user to analyze the annual reports of some publicly listed companies in India. The application has the following features:

1. Provides information about the financials of the companies, preferably provides comparisons as well (for example year over year revenues)
2. Allows users to query on the reports around various topics. Some example of queries are:
   a. "What was the key revenue driver for Wipro in the year 2022?"
   b. "Summarize the chairman's message for TCS in 2023"
   c. [Advanced]"What were the risks outlined by Infosys in 2021, and how does that compare with 2022?"
3. You must use data provided to you in the shared folder only. Do not refer to any other data sources for this application.

Some guidelines

1. You can make use of any tools that you wish to use - ChatGPT, Gemini, Cursor IDEs, GitHub repositories, stack overflow threads etc.
2. The backend must be in Python
3. The frontend (if you're building one) can be in a technology of your choice
4. If you're making use of AI in your coding workflow, **please preserve** the history of your prompts and your interactions with the AI.
5. The time-limit for this assignment is 48 hours. We will not be able to extend this under any circumstances.

Evaluation criteria

We are judging you for the following:
1. Your speed: How quickly are you able to develop a prototype like this? How complete is your application?
2. Your approach: What approach did you take in developing this prototype?
3. Your AI skills: How well are you able to leverage AI in developing your code?
4. Your software engineering skills: How clean is your design? How extensible is it? How modular is it? What is the architecture you created for this prototype?
5. Your understanding of your own code: We understand you're using AI, but it's critical that you understand your own code really well. We will be asking you to explain your code and refactor it during our call..