# Overview

This Chabot is a Streamlit-based AI assistant that provides financial insights about Microsoft, Tesla, and Apple. It uses the Gemini API and is powered by a custom dataset derived from 10-K filings.

# How it Works

* The Chabot reads financial data from a CSV file (company\_finances.csv).
* It builds a knowledge base dynamically from this data.
* For each query, the Chabot injects the knowledge base into Gemini’s prompt to ensure answers are fully based on the uploaded data.
* The Chabot maintains a history of questions and answers during the session for easy reference.

# Predefined Queries

You can ask the chatbot things like:

* What is Microsoft's total revenue in 2023?
* How has Tesla’s net income changed from 2022 to 2023?
* What are Apple’s total assets as of 2023?
* What is the liabilities growth for Microsoft?
* How has Apple’s cash flow from operating activities changed?

You can also rephrase these questions naturally, and the AI will interpret them.

# Limitations

* The chatbot can only answer based on the dataset provided.
* Questions outside Microsoft, Tesla, and Apple’s data will return a fallback message:  
  "I don't have that information."
* It does not retain history between sessions—history is reset when the app is restarted.
* Large datasets may hit Gemini’s **context size limits** (best for small-medium data).

# How to Run

Install dependencies

pip install streamlit google-generativeai python-dotenv pandas

Set up Gemini API key in .env file

API\_KEY=your\_gemini\_api\_key\_here

Run the app:

!npm install localtunnel

!streamlit run app.py &>/content/logs.txt & curl ipv4.icanhazip.com

Once you run this command you get a key/password for tunnel. Enter it in the localhost.

!npx localtunnel --port 8501

# Test Results



