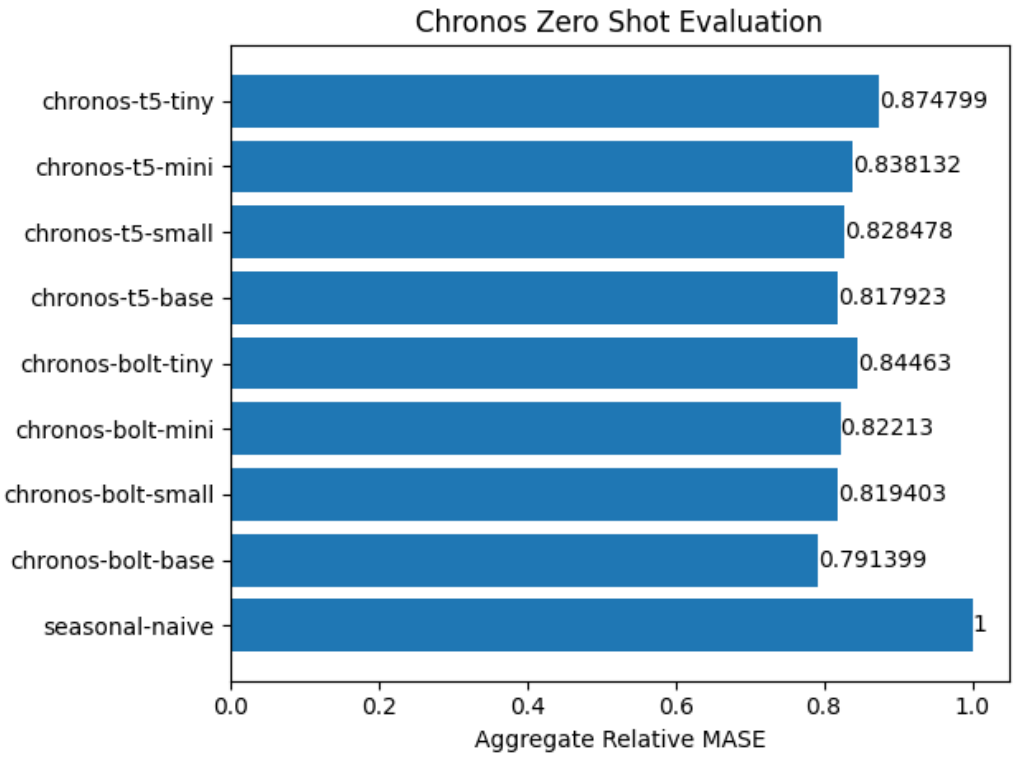
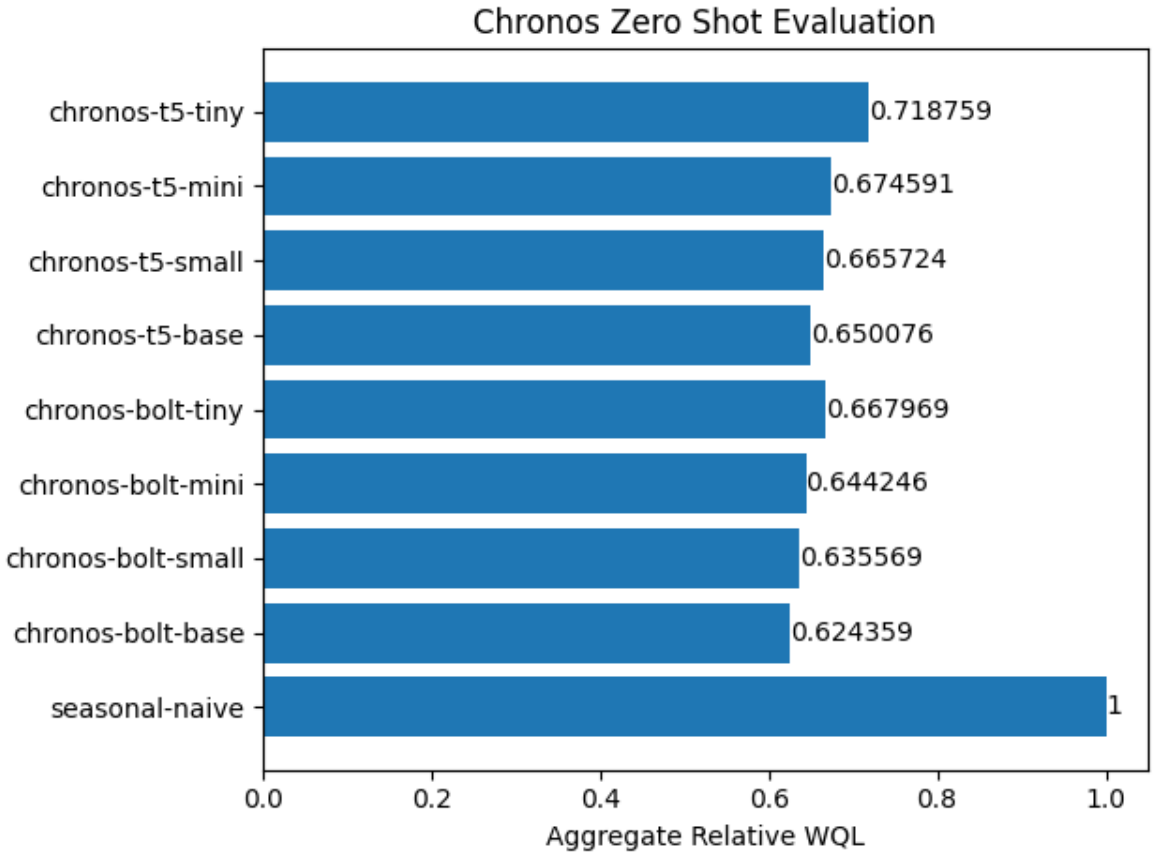
CSE 4939W Week 10 (Spring 2025) - Sage Pia

2/3/2025

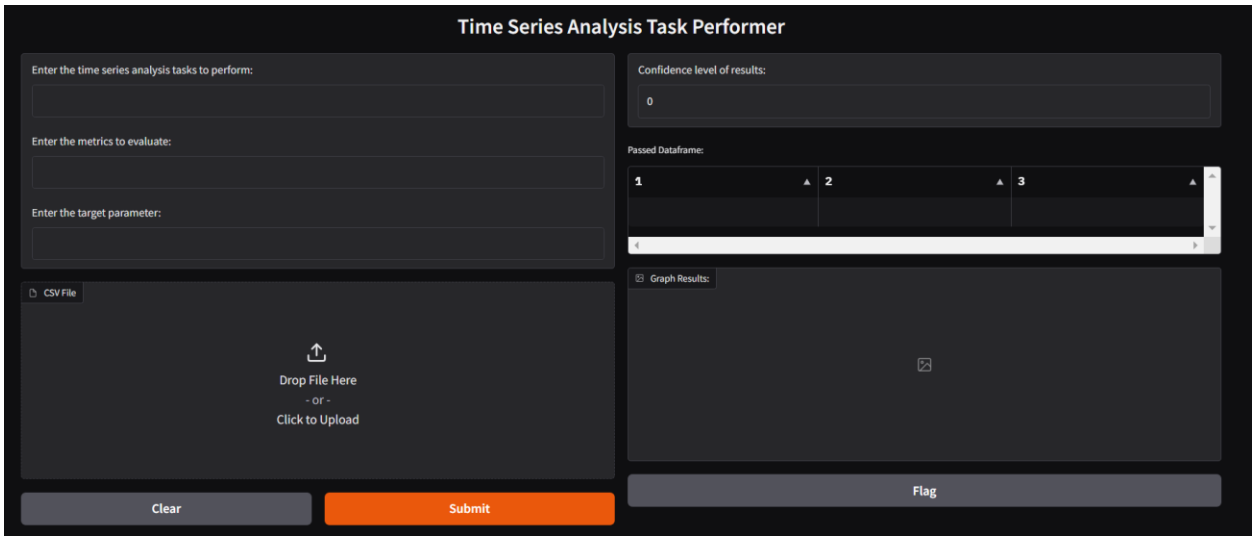
This week:

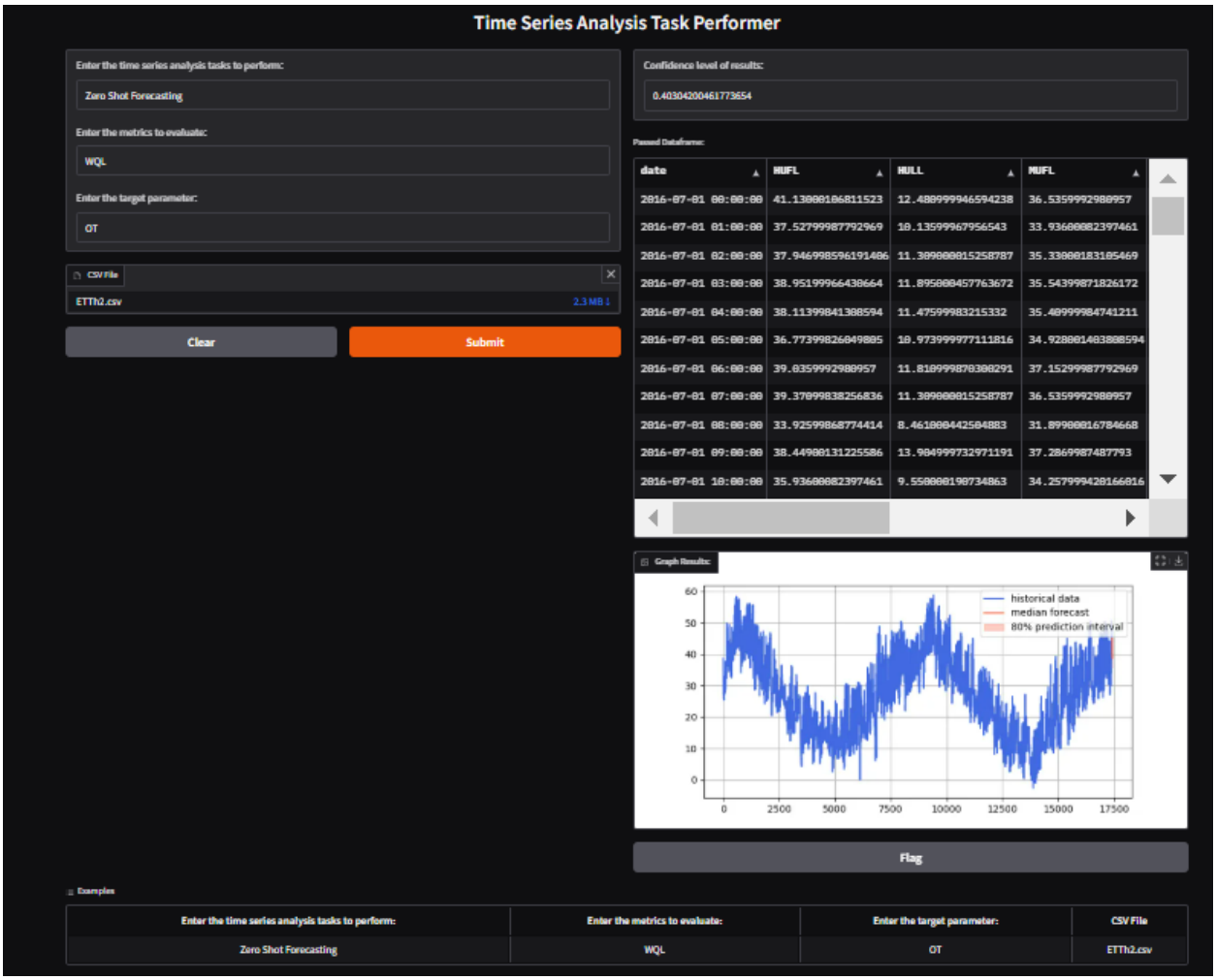
- I created a GitHub repository for better file management. For now, I separate files by frontend and backend, but we will establish a standard on Monday.
- I reviewed how to use Chronos for zero shot evaluation. The process of deploying Chronos Bolt models is identical to that of the T5 versions, so I performed zero shot evaluations to confirm that Chronos Bolt is more accurate.





- The WQL and MASE results for all the Bolt models are lower than their T5 counterparts, so it seems Bolt is more accurate.
- To decide on the best tool for designing a UI, most of the team investigated Tkinter because Yarid has prior experience with it. However, after reviewing the original project proposal, I saw that Gradio and Mesa were suggested. I began learning the basics of Gradio and set up a very simple interface for uploading data files:





- I also researched the application to Open AI for educational use. I wrote a sample submission but wanted to have others read and revise it:
    - Company Size: 1-50
    - Company Name: University of Connecticut – Senior Design Team 01
    - Product: ChatGPT Education
    - Title: Benchmarking Large Language Models for Time Series Analysis
    - Can you share more about your business needs and challenges? We are a small team of Computer Science students at the University of Connecticut working on our senior capstone project: building an interface where users can upload data, perform time series analysis tasks, and get quick results. Given the wide capabilities of LLMs, both within time series analysis tasks and beyond, we would like to deploy ChatGPT to improve the accuracy and efficiency of our interface.