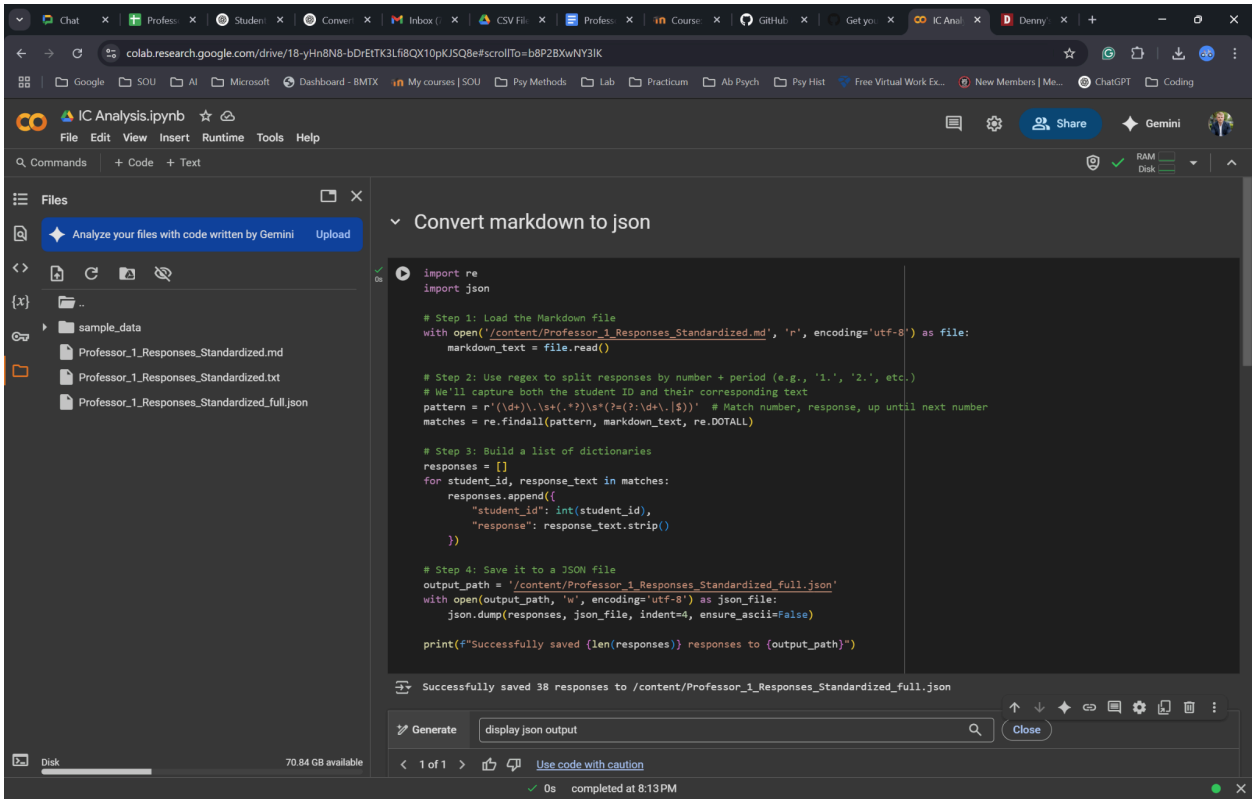
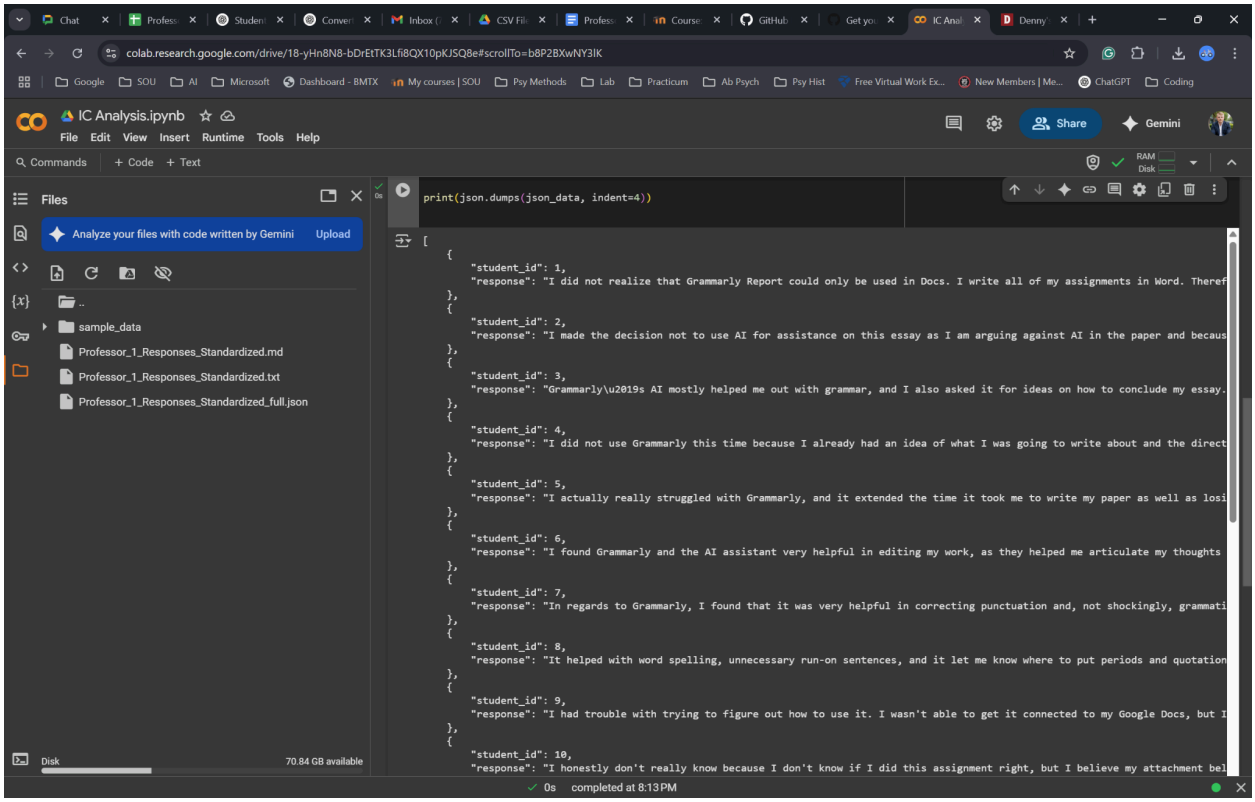
1. Initial Markdown to JSON Conversion

- **Started** with a `.md` (Markdown) file containing student responses.
- **Copied Python code** from ChatGPT (me!) that reads the markdown file, parses it by numbered entries, and converts it into structured **JSON** format.
- **Used Google Colab** to run the provided Python code to process the `.md` file and create a clean `.json` file.





Colab is an online code editor from Google specifically designed for data analysis type work.
Link IC Analysis.ipynb

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2. Sentiment Analysis and Classification

- **Uploaded the JSON file** to ChatGPT.
- **Requested initial sentiment analysis** using a simple three-category model: **Positive**, **Mixed**, or **Negative**.
- **Reviewed and discussed** how to improve the sentiment rating system to better capture intensity and ethical concerns.

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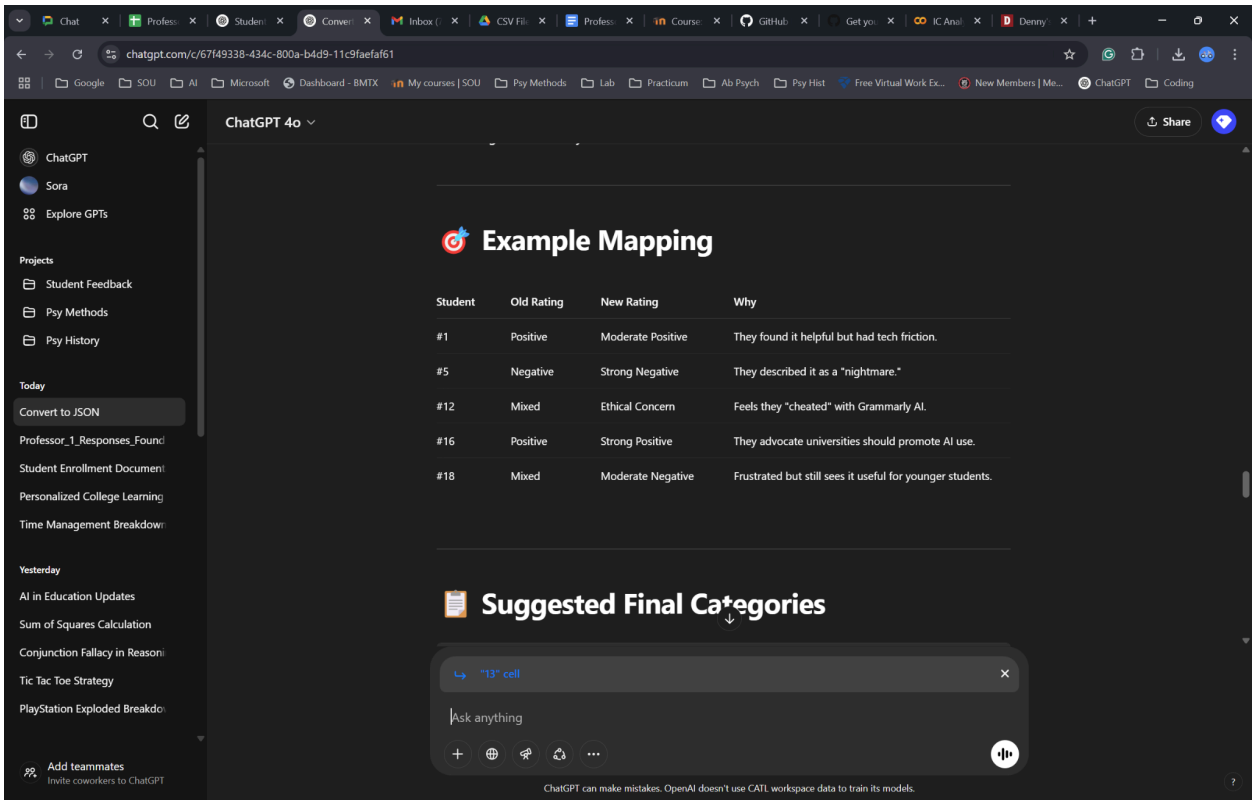
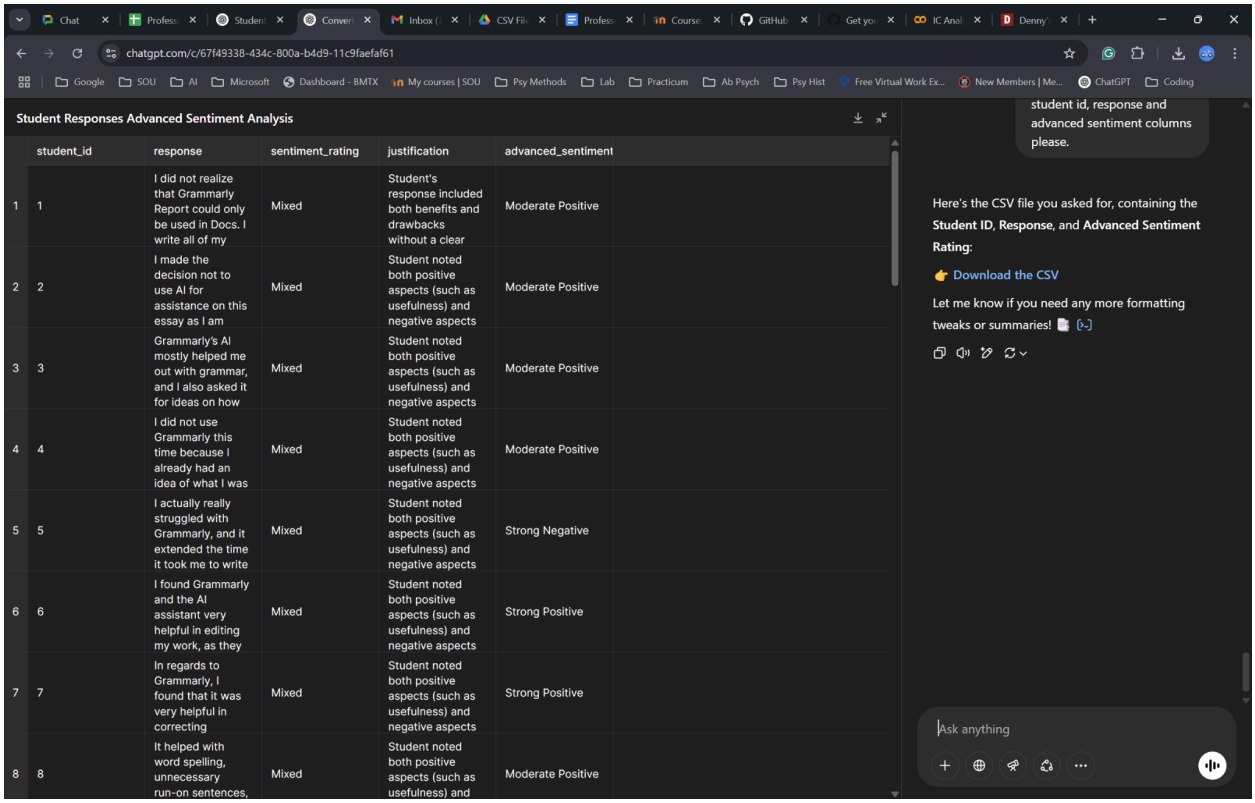
3. Advanced Sentiment Analysis

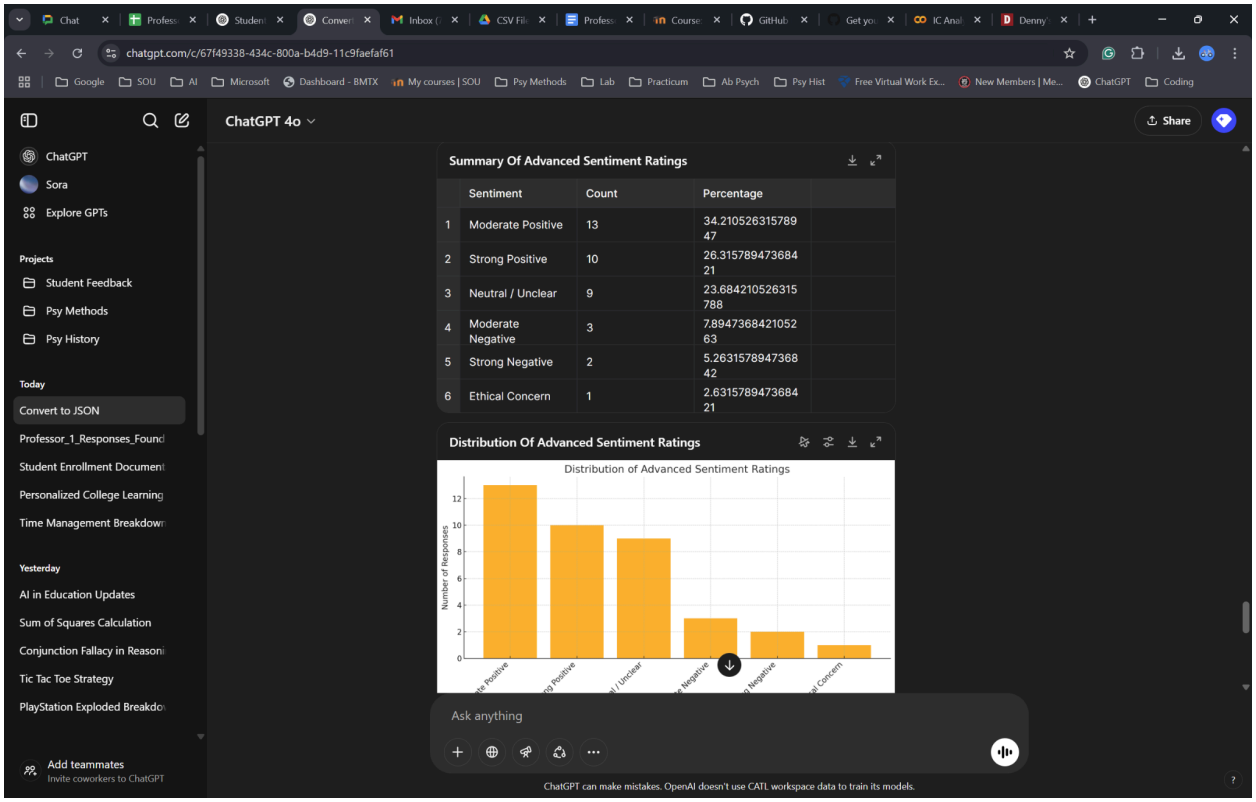
- **Refined the sentiment model** to include six nuanced categories:
    - Strong Positive
    - Moderate Positive
    - Neutral / Unclear
    - Moderate Negative
    - Strong Negative
    - Ethical Concern



- **Ran new code** to reclassify all responses using this **more sophisticated sentiment system**.



- **Generated a visual summary** (bar chart) and data table summarizing the distribution of sentiments.



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4. Data Export

- **Created a cleaned CSV file** containing only:
    - Student ID
    - Full Response
    - Advanced Sentiment Rating
- **Downloaded the CSV** from ChatGPT to your computer.

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5. Post-Processing in Google Sheets

- **Imported the CSV into Google Sheets**.

- **Converted the imported data into a Table** for easier viewing and filtering.

- **Added a Chart** to visualize sentiment distribution more clearly
- **Enhanced usability** by:

    - Making the **Sentiment Rating column a Dropdown List** with predefined options.

    - **Applied color coding** to dropdown options to make manual sentiment verification and adjustments easier for humans (e.g., red for Strong Negative, green for Strong Positive, etc.).

Link to ChatGPT conversation. Images and files aren't available in shared links however.
https://chatgpt.com/share/e/67f4a08e-1d78-800a-9536-eceebc903644