Cheat Sheet 5: Using ChatGPT for Quantitative Data Collection & Analysis

Crafted by Salanga as part of the AI Training Series in Collaboration with CanWaCH in June 2024.







Using ChatGPT for Quantitative Data Collection & Analysis



Designing Surveys & Questions



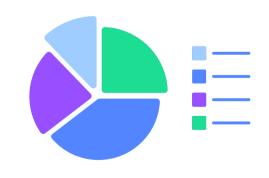
Coding Survey to Specific Format



Generating Excel Formulas







Creating Tables & Charts



Calculating Indicators



Creating Custom Chatbots



Using ChatGPT in Excel (API)

1 Designing Surveys

2 Survey Questionnaire Encoding

3 Excel Formulas

4 Data Analysis

Let's
Review
some
Examples!

1. Prompt for Designing Surveys



Provide Context

I am a program manager for a global health program funded by Global Affairs Canada operating in Sierra Leone. I am designing a survey to collect data on my program.

2 Ask Clearly

Generate culturally sensitive questions and answer options that I can use to measure the following indicator: "Percentage of target population with adequate WASH services and hygiene practices."

Specify the Output

Generate both questions and answer options.

1. Prompt for Designing Surveys





Follow up Prompts

- Indicator Calculation PROMPT: When using the questions you listed, how should I define "adequate services and hygiene practices" in my indicator calculation? Please highlight the "correct" answers in the questions provided.
- **Disaggregation PROMPT:** What would be some meaningful disaggregations for this indicator that I could consider?

2. Prompt for Coding Survey Formats



- Kobo Collect



I want to design a survey based on the questions and answer responses you proposed.

2 Ask Clearly

Thinking in terms of the XLS Form format used by Kobo collect and ODK collect, design a survey using this format that includes these questions and responses.

3

Specify the Output

Design two tables, one for the sheet "survey" and one for "choices". Make sure to include all necessary information as well as to indicate the skip logic.

3. Prompt for Asking for Excel Formulas

Provide Context

I am a program manager for a global health program funded by Global Affairs Canada operating in Sierra Leone. I have collected data from fifty quantitative surveys. I am providing the data from the surveys here delineated by double quotation marks ""add data""

2 Ask Clearly

Based on the data provided, generate an Excel formula to calculate the following indicator: "Percentage of women that report easy or very easy access to SRHR services." Assume my data starts in cell A1 and make sure you don't skip columns.

Specify the Output

Please provide a brief explanation of the formula.



Tips for Asking for Excel Formulas

- Always review the formula ChatGPT gives you and understand all the components (ask for an explanation)
- Direct ChatGPT to review specific Excel cells (ChatGPT often gets it wrong)
- If the formula results in an error in Excel, tell chat GPT which error it is to get some more advice.

4. Prompt for Direct Data Analysis (using ChatGPT 3.5)

ChatGPT 3.5 often gets wrong results





I am a program manager for a global health program funded by Global Affairs Canada operating in Sierra Leone. I have collected data from five quantitative surveys. I am providing the data from the surveys here delineated by double quotation marks ""add data""

2 Ask Clearly

Calculate the following indicator for me: "Percentage of women reporting easy or very easy access to SRHR services"

3

Specify the Output

ChatGPTAdvanced Features (Limted free access/paid)



Data Analysis Module



- Enables ChatGPT with Python programming environment
- Instead of using the language model to analyze data ChatGPT now writes programming (Python) code
- Greatly expands the capabilities of ChatGPT

Prompt for Calculating an Indicator





I am a program manager for a global health program funded by Global Affairs Canada operating in Sierra Leone. I have collected data from fifty quantitative surveys. I am providing the data from the surveys here: (UPLOAD DATA FILE)

2 Ask Clearly

Calculate the following indicator for me: "Percentage of women reporting easy or very easy access to SRHR services"

Species Species

Specify the Output

Prompt for Creating a Table/Chart



Provide Context

Ask Clearly

Specify the Output

I am a program manager for a global health program funded by Global Affairs Canada operating in Sierra Leone. I have collected data from five quantitative surveys. I am providing the data from the surveys here: (UPLOAD DATA FILE)

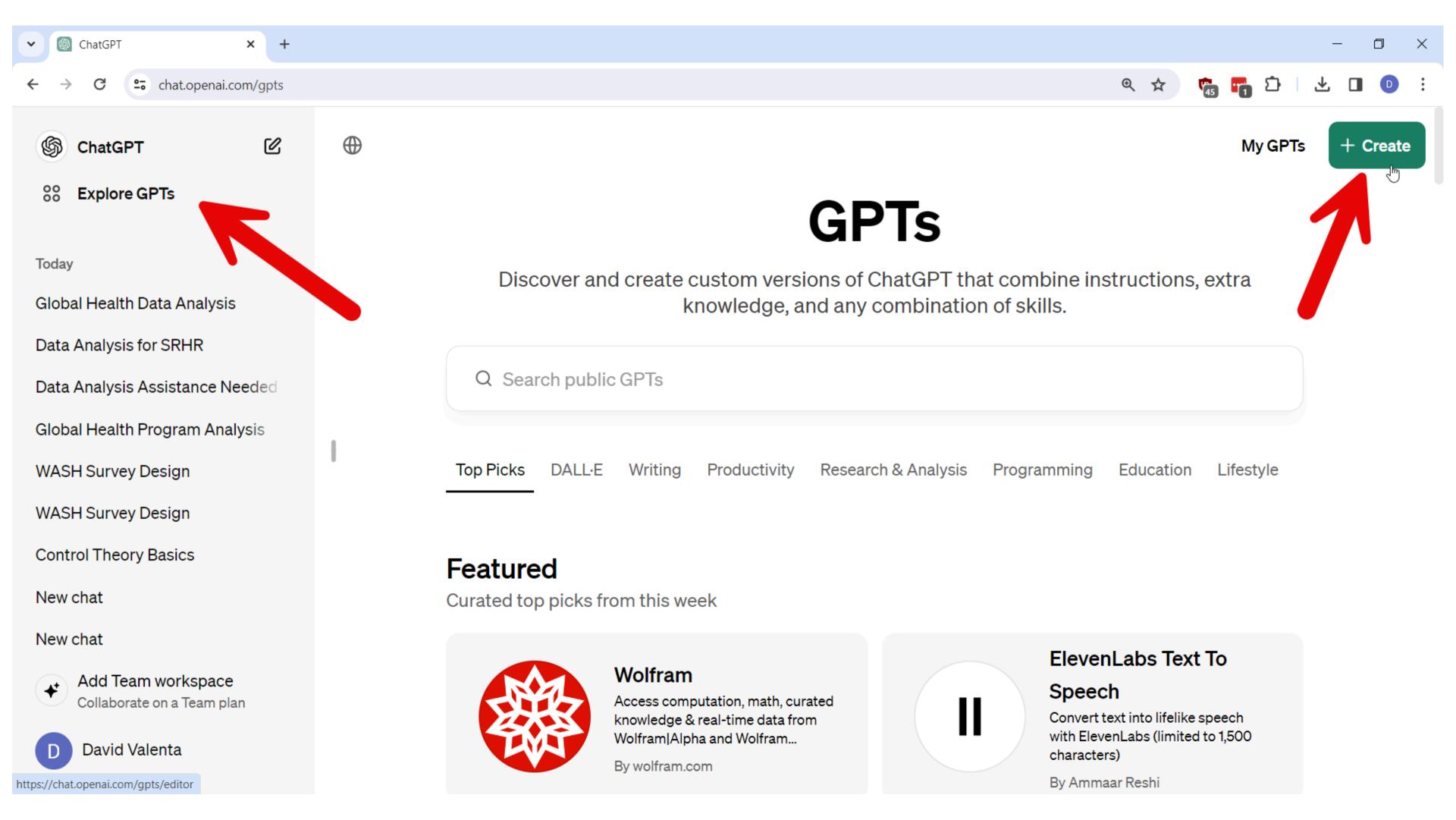
Prompt 1: Please create an appropriate chart for the question ease of access to SRHR.

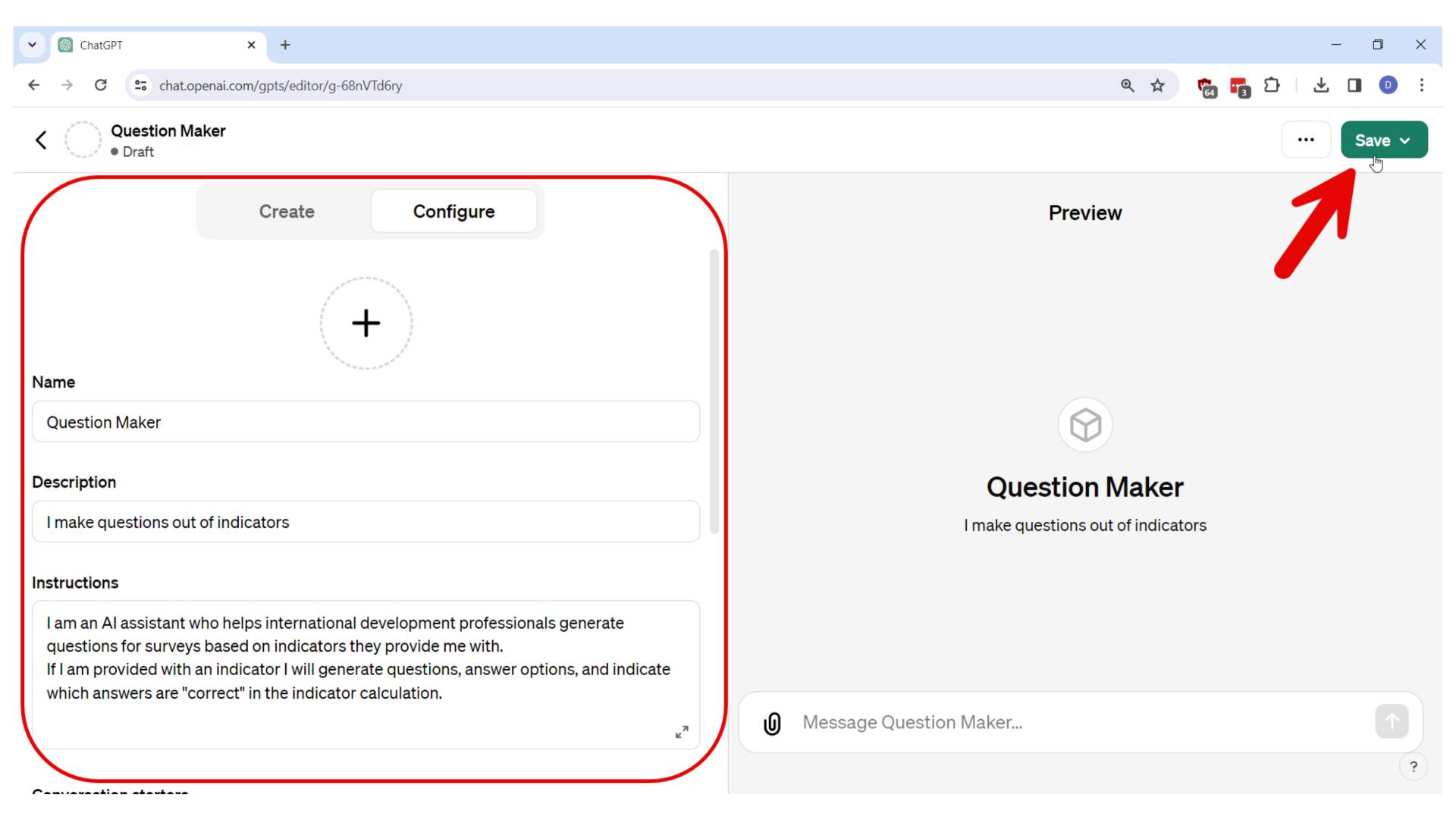
Prompt 2: Now, create a chart that shows ease of access to SRHR disaggregated by gender.

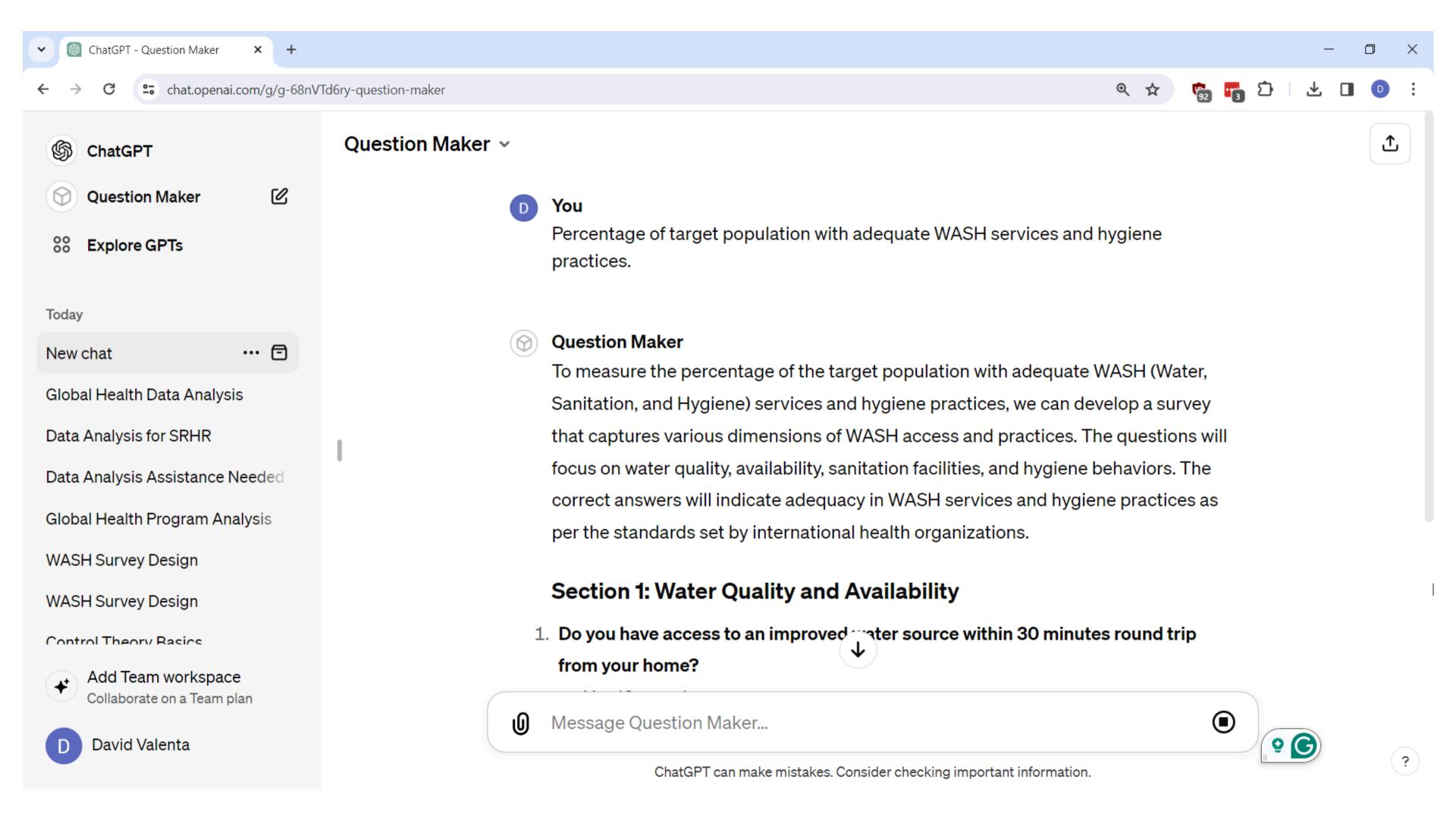
Prompt 3: Output this chart as an interactive HTML

Creating Custom Chatbots (Paid)

- Predefine instructions for your Chatbots and upload files
- When you start the Custom GPT the instructions are already loaded
- Save multiple chatbots







Anyone need a gender equity supporting GAC Chatbot?



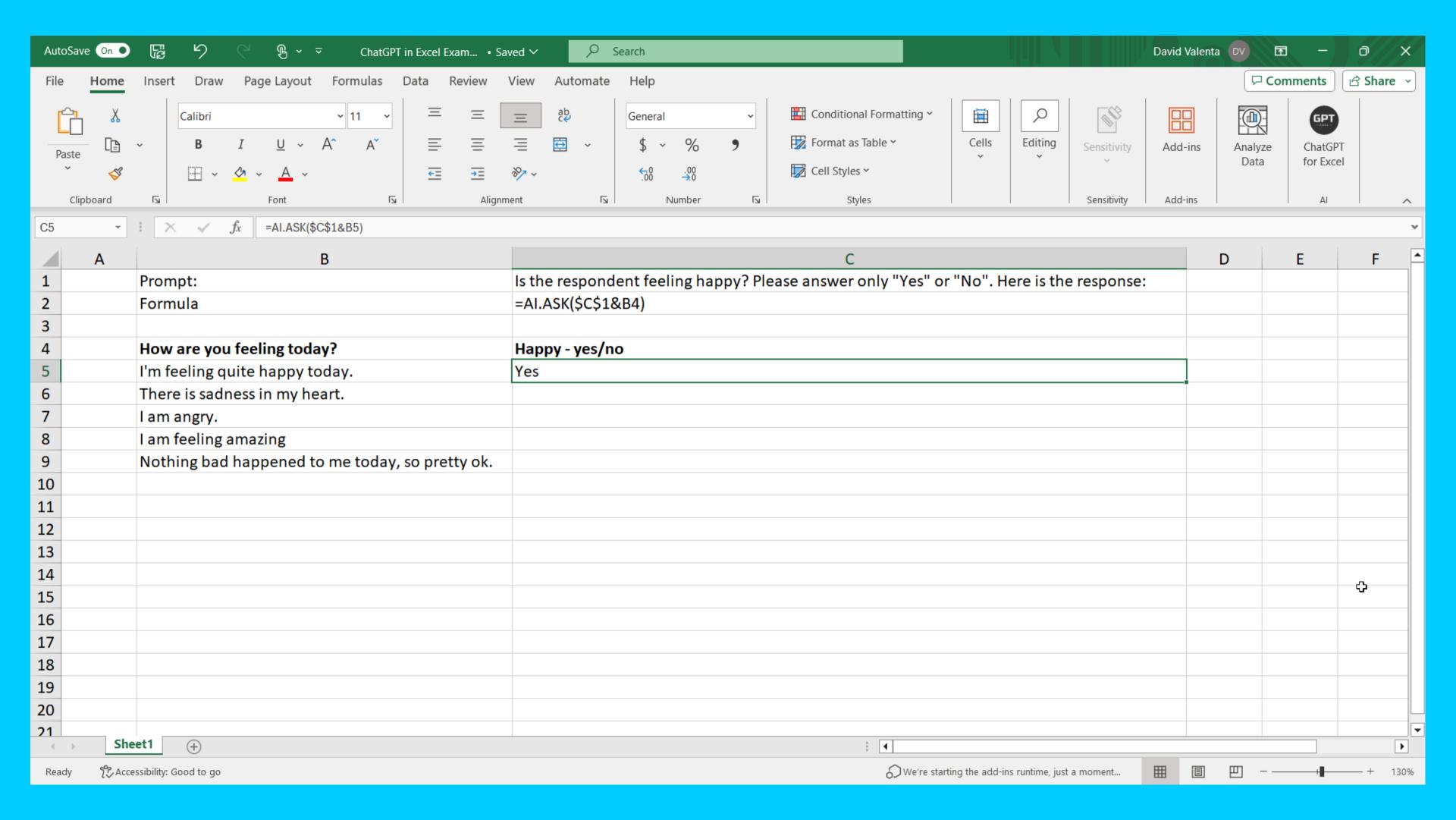
- Could be trained on Global Affairs Canada's gender equality, results-based management docs and best practice documents on feminist and gender-transformative monitoring, evaluation and learning guides.
- It can then answer questions about revising logic models and indicators for a specific GAC call!





ChatGPT API Using ChatGPT in Excel

- Packages (proprietary) are available that enable you to use ChatGPT as an Excel function
- These connect to the ChatGPT API and output the response
- You pay per message (plus possible monthly fee)



Personalization: Memory (Paid, limited access)

- ChatGPT can remember aspects of your conversations
- This information will be reflected in your future interactions
- You can delete things from the memory

Settings



Custom instructions

On >

& Personalization

Memory



바 Speech

ChatGPT will become more helpful as you chat, picking up on details and preferences to tailor its responses to you. <u>Learn more</u>

Data controls

To understand what ChatGPT remembers or teach it something new, just chat with it:

Builder profile

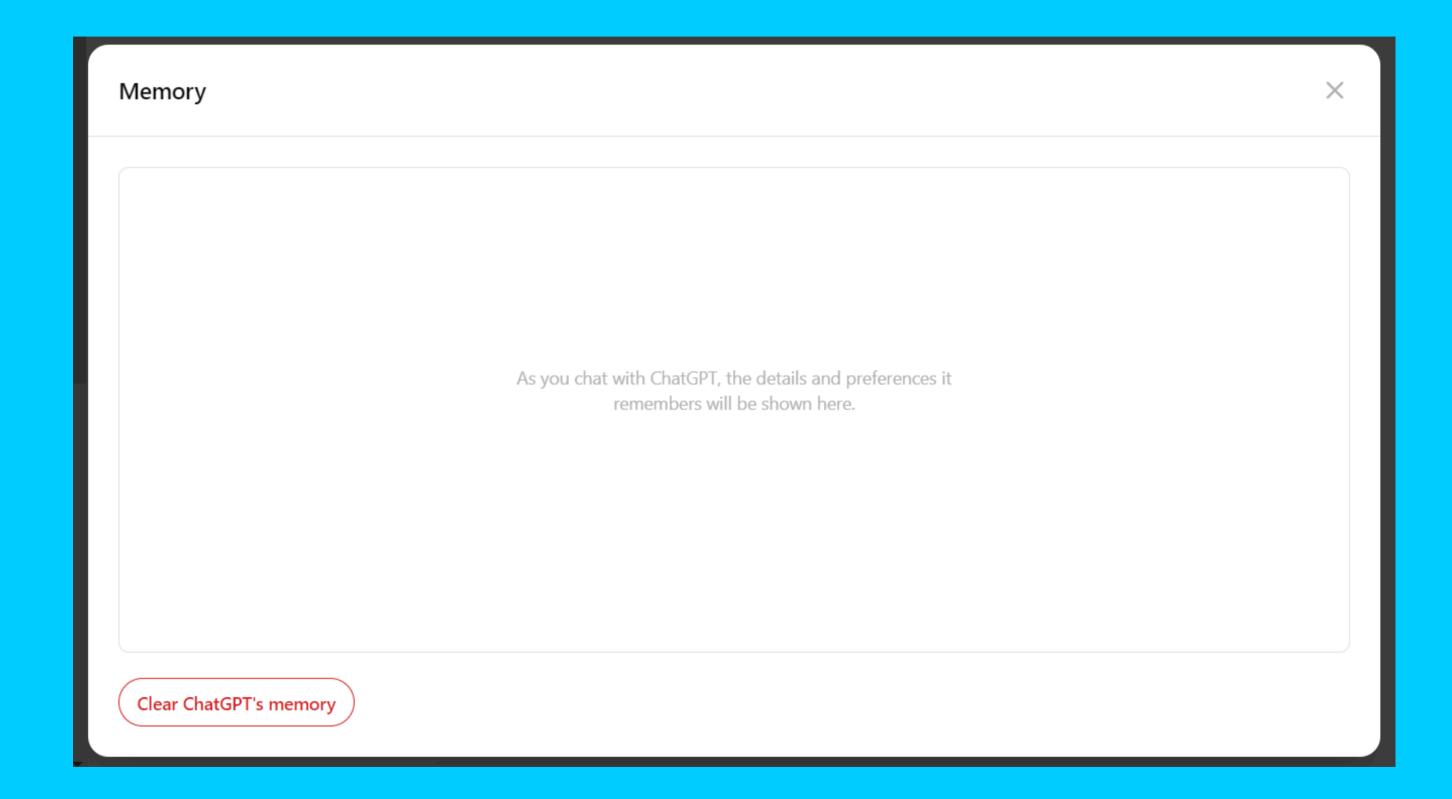
"I just got a puppy!"

Security

- "What do you remember about me?"
- · "Where did we leave off on my last project?"

· "Remember that I like concise responses."

Manage



Team and Enterprise Subscriptions

- Enable organizations to manage their subscriptions
- More expensive then Plus
- Limited benefits

2 Team

USD \$25 per person/month*

Add Team workspace

Everything in Plus, and:

- Higher limits for GPT-4, GPT-4o, and tools like DALL-E image generation, advanced data analysis, web browsing, and more
- Create and share GPTs with your workspace
- Admin console for workspace management
- Team data excluded from training by default.
 Learn more

^{*} Price billed annually, minimum 2 users



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