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ChatGPT

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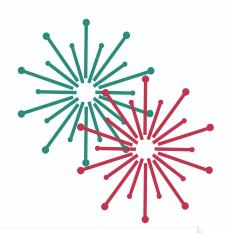
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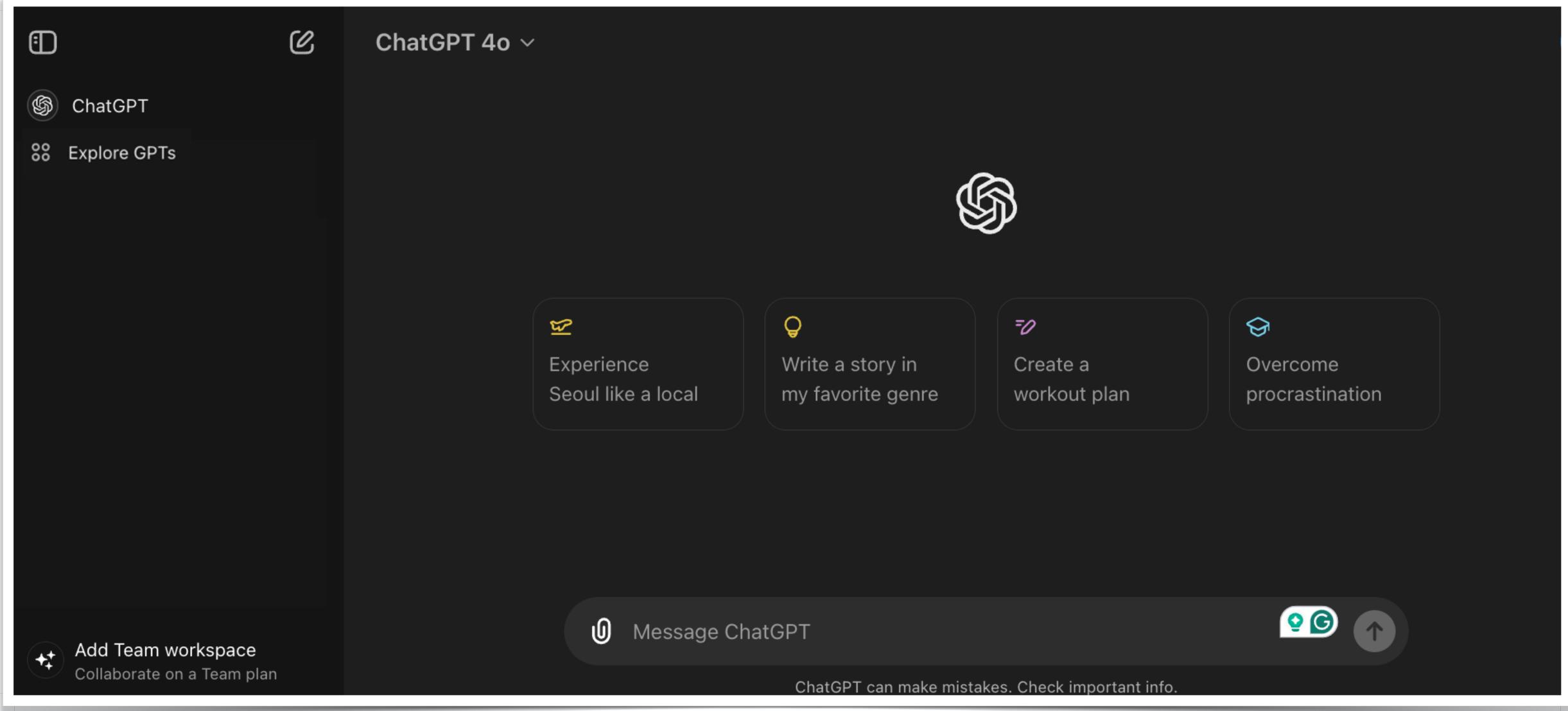


Q Related Papers



https://openai.com/chatgpt/



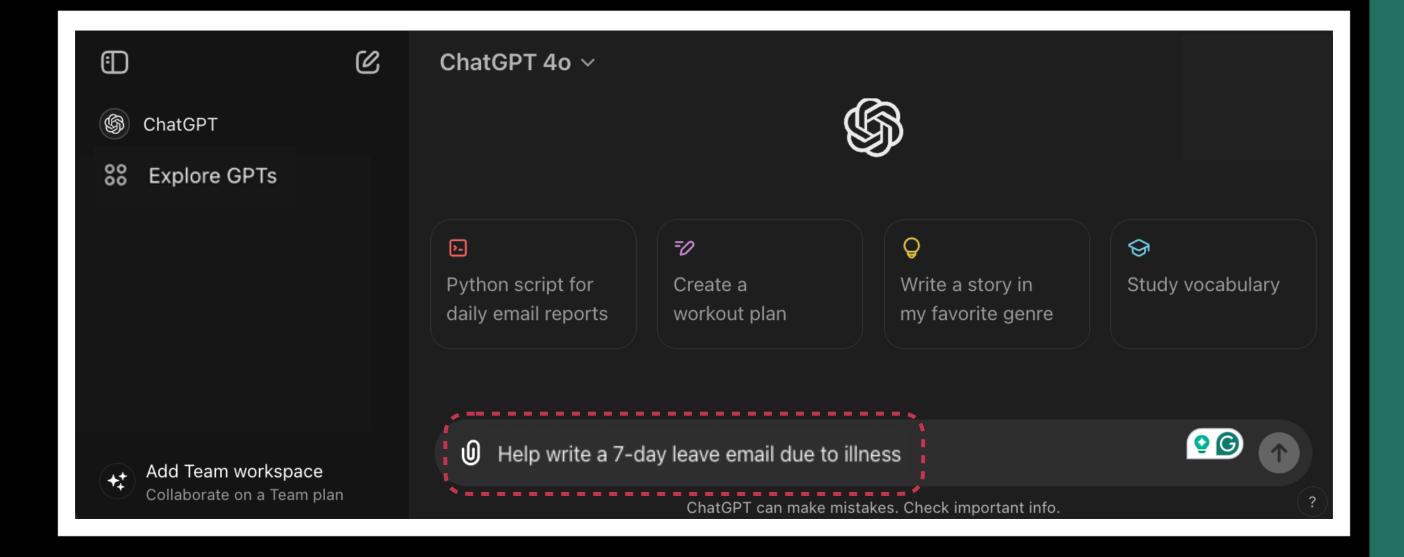


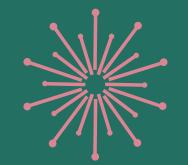




Example a prompt:

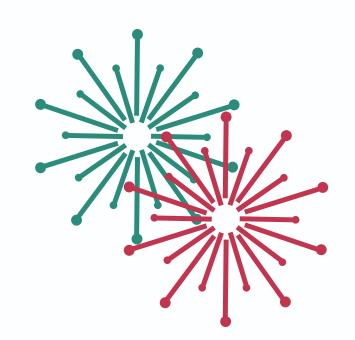
- Please explain the concept of Einstein's theory of relativity.
- Please write an email requesting leave in Thai.
- Explain the meaning of the word prompt in ChatGPT.





Prompt mean a message or command sent to an artificial intelligence model to encourage Al to generate a response or perform a given action. An example of a Prompt could be a question, a work order, or a description that requires the Al to work on.

ChatGPT Answer



ChatGPT 40 ∨
© ChatGPT

88 Explore GPTs

Help write a 7-day leave email due to illness



Sure! Here is a sample email for requesting a 7-day leave due to illness:

Subject: Request for 7-Day Sick Leave

Dear [Supervisor's Name],

I hope this message finds you well. I am writing to inform you that I am currently experiencing health issues and, on the advice of my doctor, I need to take a 7-day leave of absence to recover properly.

Starting from [start date], I will not be able to attend work and will be on leave until [end date]. I have ensured that all my ongoing tasks are either completed or delegated to [colleague's name] to ensure there is no disruption to our workflow.

I will remain accessible via email for any urgent matters and will do my best to address them promptly. Attached is the medical certificate from my doctor confirming my condition and the recommended rest period.

Thank you for understanding my situation. I appreciate your support during this time and look forward to returning to work after a full recovery.

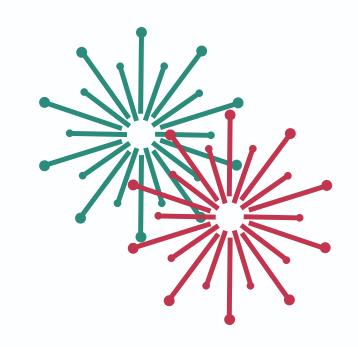
Best regards,

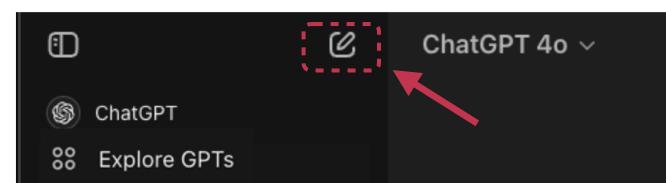
[Your Full Name]

[Your Position]

[Your Contact Information]







Help write a 7-day leave email due to illness



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Subject: Request for 7-Day Sick Leave

Dear [Supervisor's Name],

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Thank you for understanding my situation. I appreciate your support during this time and look forward to returning to work after a full recovery.

Best regards,

[Your Full Name]

[Your Position]

[Your Contact Information]





OpenAl

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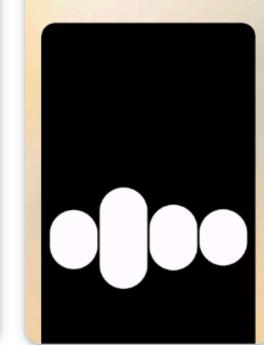
ChatGPT

Android

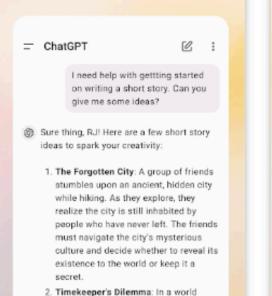
Get answers. Find inspiration. Be more productive.

Free to use. Easy to try. Just ask and ChatGPT can help with writing, learning, brainstorming and more.

Chat in voice mode.



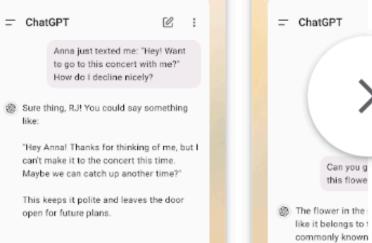
Find creative inspiration.



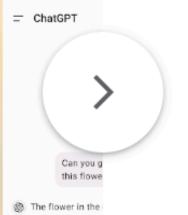
timekeeper discovers a way to

manipulate time. Torn between usin

Get tailored advice.



Go de



key details about

General Inforn

· Scientific Nam

Similar apps \rightarrow

App support



Bing: Chat with AI & GPT-4 Microsoft Corporation 4.7 ★

This app is available only on the App Store for iPhone and iPad.



ChatGPT 12+

The official app by OpenAl OpenAl

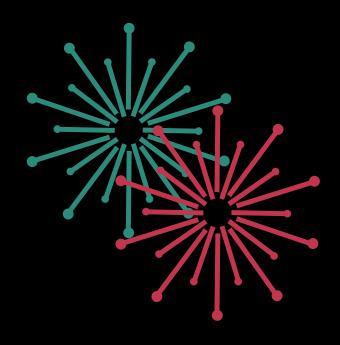
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ChatGPT



Screenshots

Find inspiration.

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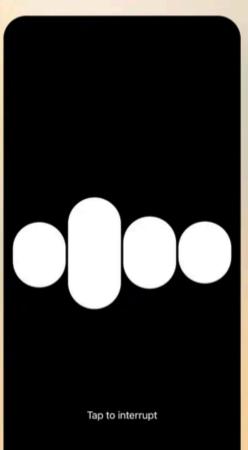
can help with writing,

and more.

learning, brainstorming

iPhone iPad

Chat in voice mode.



inspiration. started on writing a short story. Can you give me Absolutely! Here are a few ideas to get

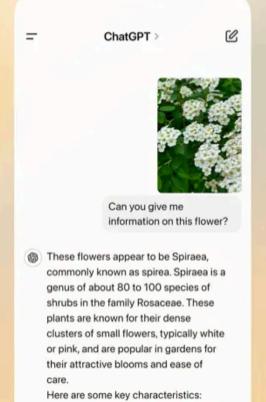
Find creative

Setting: A bustling city where

your creative juices flowing:

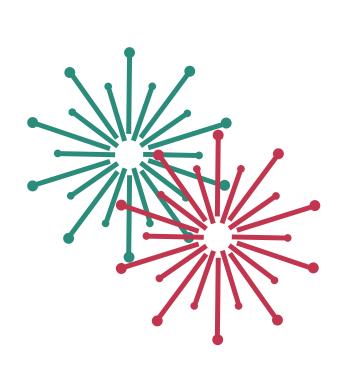
- Plot: A young musician discovers an underground community that creates symphonies in secret. Together, they plan to restore
- music to the city. Twist: The city's ruler has a
- hidden past as a famous composer. 2. The Time Traveler's Dilemma:
- · Setting: A small town where

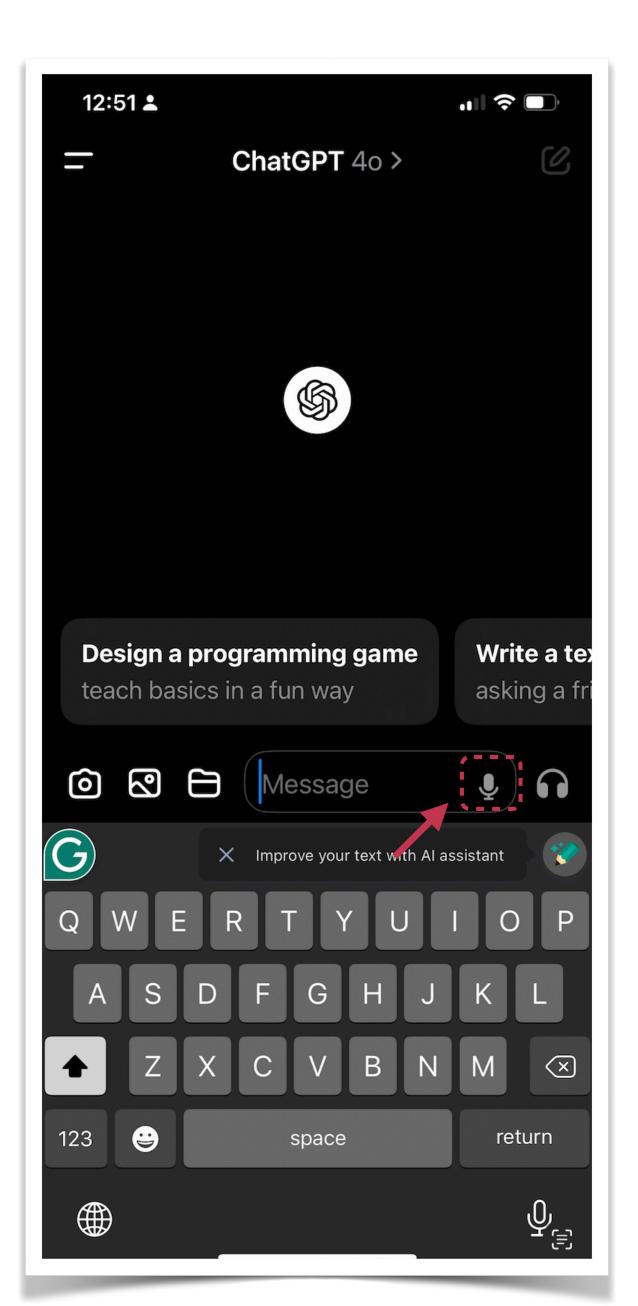
Go deep and learn.

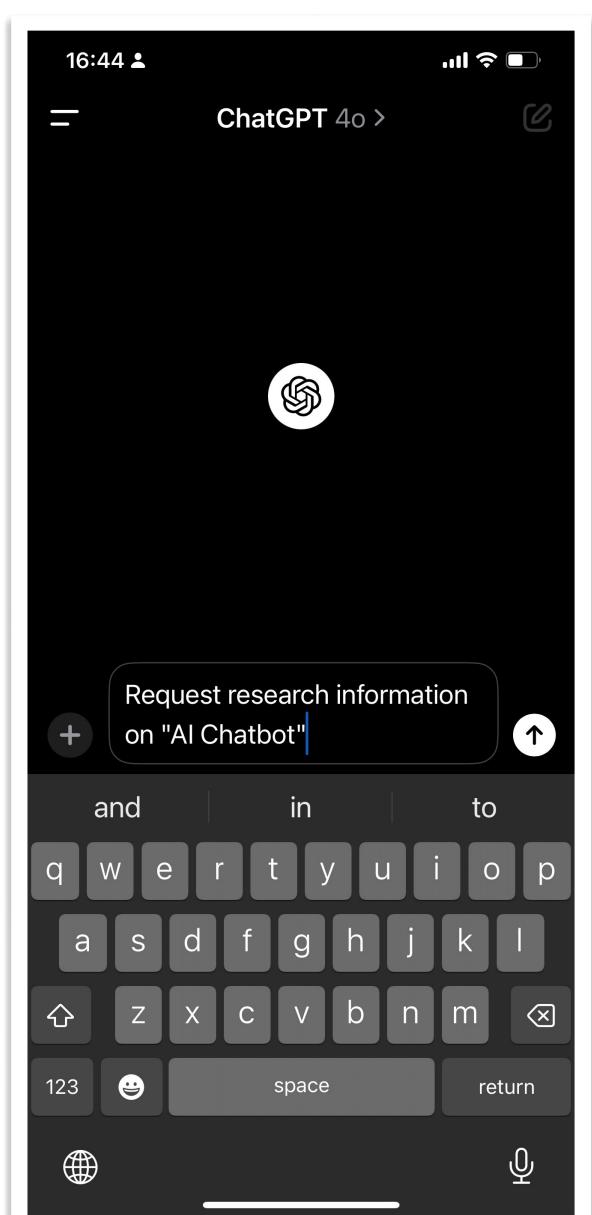


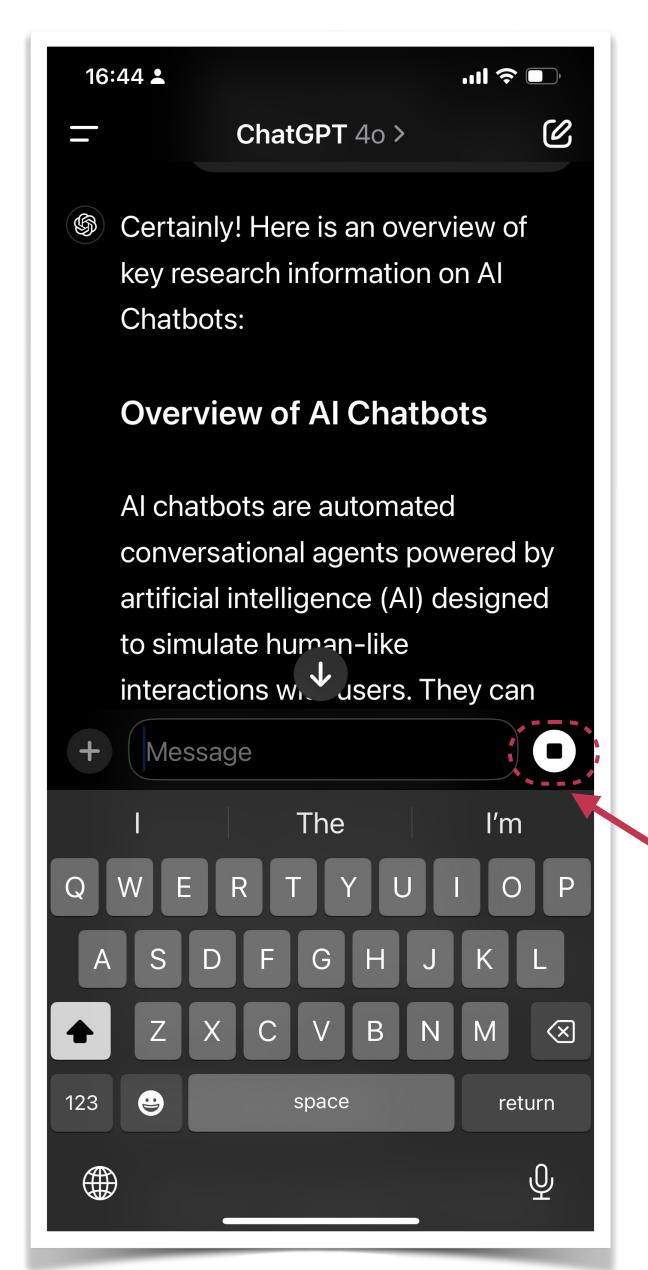
Flower Clusters: The flowers are

ChatGPT App











Essential skills for the next 1-3 years

Prompt Engineering

Prompt engineering involves the process of designing and customizing prompts so that AI models can effectively and accurately produce the desired results. This process includes selecting the right words, structuring the text, and experimenting with multiple prompts to find the best way to communicate with AI models.



Examples:

Choosing appropriate words: Using clear and specific language to make it easier for the AI to understand what is required.

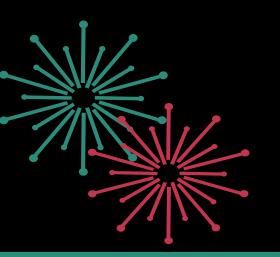
02

Structuring the text: By organizing words and sentences logically and clearly, you can maintain control and ensure the AI understands your requirements.

03

Using examples: Provide additional examples to help the AI understand the context and generate suitable responses.

Hallucination & Confabulation



Hallucination •



Hallucination, in the context of artificial intelligence (AI), refers to the AI model generating information that is not consistent with reality or based on correct information.

This means that the AI might create the wrong answers or content that does not exist. It's crucial to understand these concepts as it empowers you to identify and mitigate instances of AI hallucination, ensuring the accuracy and reliability of AI systems, such as:

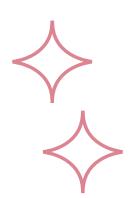
- 1. Providing incorrect answers to questions, generating information that does not match reality.
- 2. Creating non-existent content, such as stories or details that have never actually happened, which can mislead users.
- 3. Distorted translation of text from one language to another.

Confabulation <



Confabulation: In the context of artificial intelligence or machine learning models, confabulation means that the model creates data or answers that seem to be reliable. But in reality, it is not correct or not based on real data; that is, the AI model may "compoint" without the intention to fill the gap of information or questions received, such as:

- 1. Creating false data: Al may generate answers that seem to be accurate and reliable but are actually inconsistent with existing data.
- 2. Displaying Untrue Information: AI may create non-existent content or fill incomplete information with crafted details.



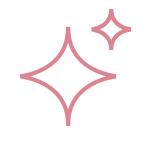
Awareness

When using this AI Chatbot, it's essential that experts verify the responses, or we take on the responsibility of verifying the responses ourselves. This ensures that we maintain control and accuracy in our interactions.

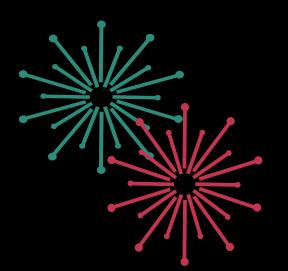
The main reason for those who are not experts is that when using AI Chatbots, a teacher, consultant, or expert must give advice. Because these AI Chatbots are not smart enough.

They still have hallucinations and confabulation.

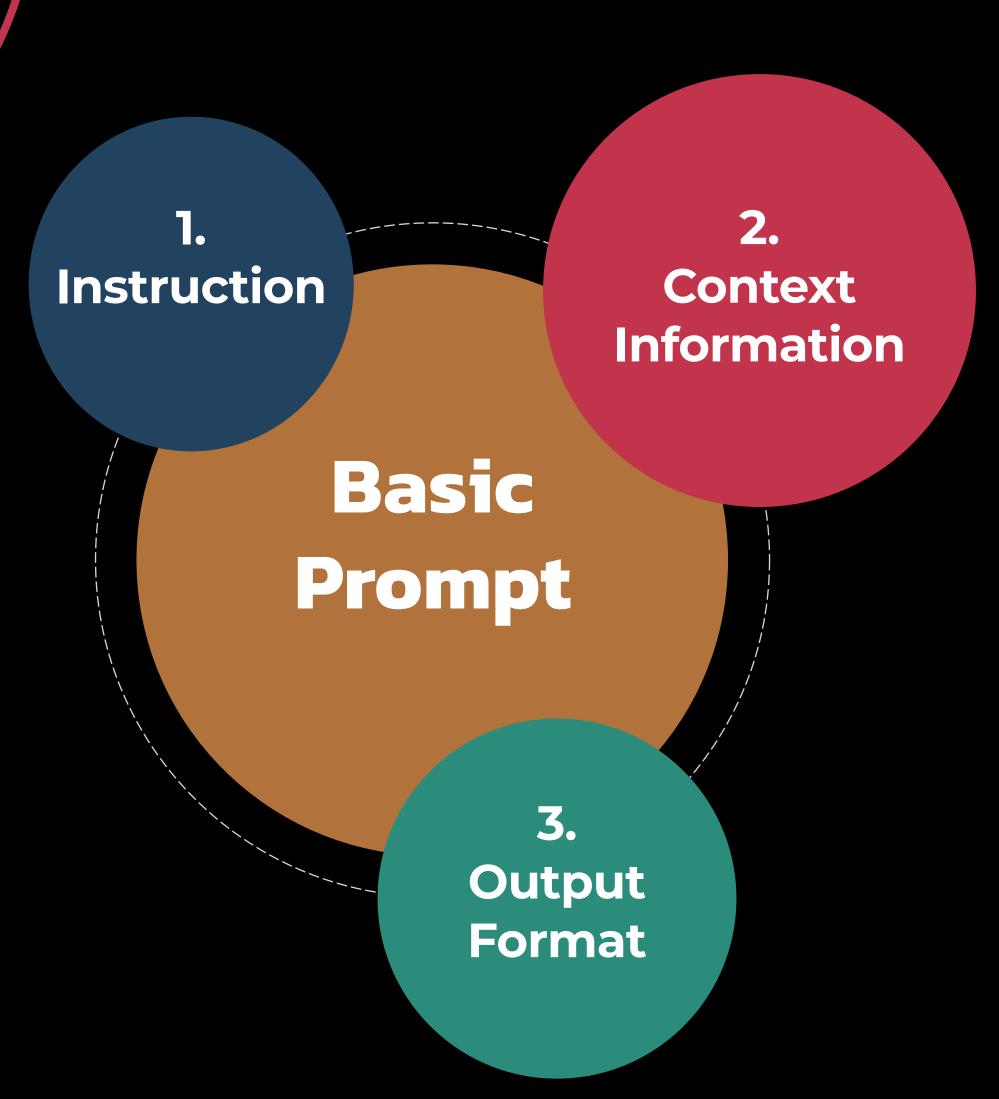




Basic Prompt Template (1)



[Instruction] [Context/Information] [Output Format]



↓ 1. Instruction

Write any order, such as writing email, announcement, public relations, abstract, introduction, and summary.

→ 2. Context/Information

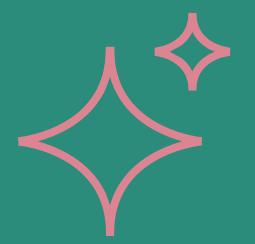
Should enter the relevant knowledge and more details about how you want, What is the information that you want to use?

→ 3. Output Format

Can set the output, such as 100 words, one/ twoparagraph length, put in the answer table for children. These will make the results come out differently.

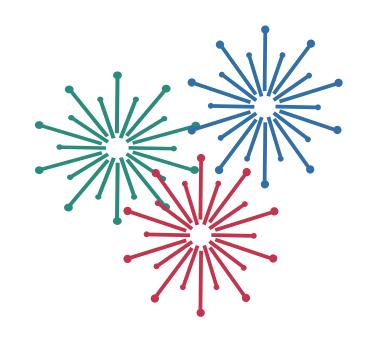


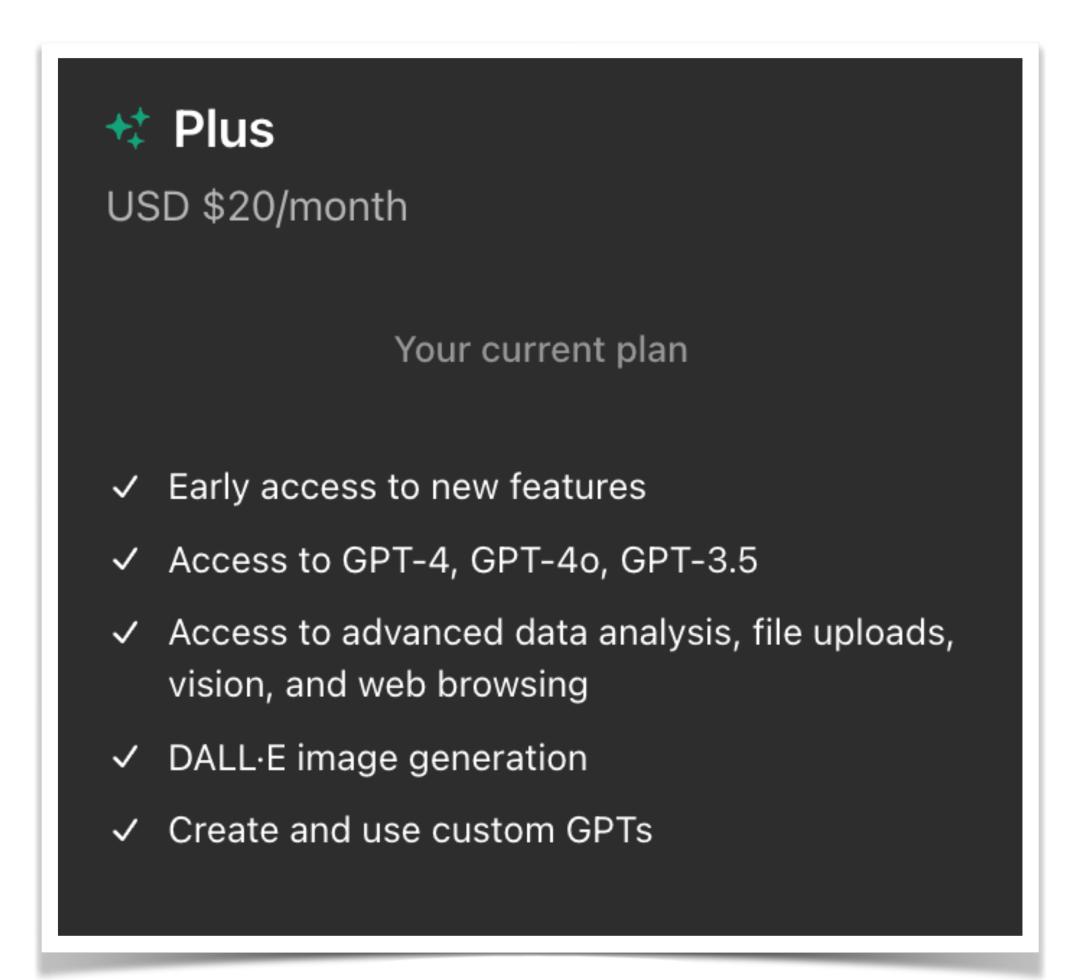
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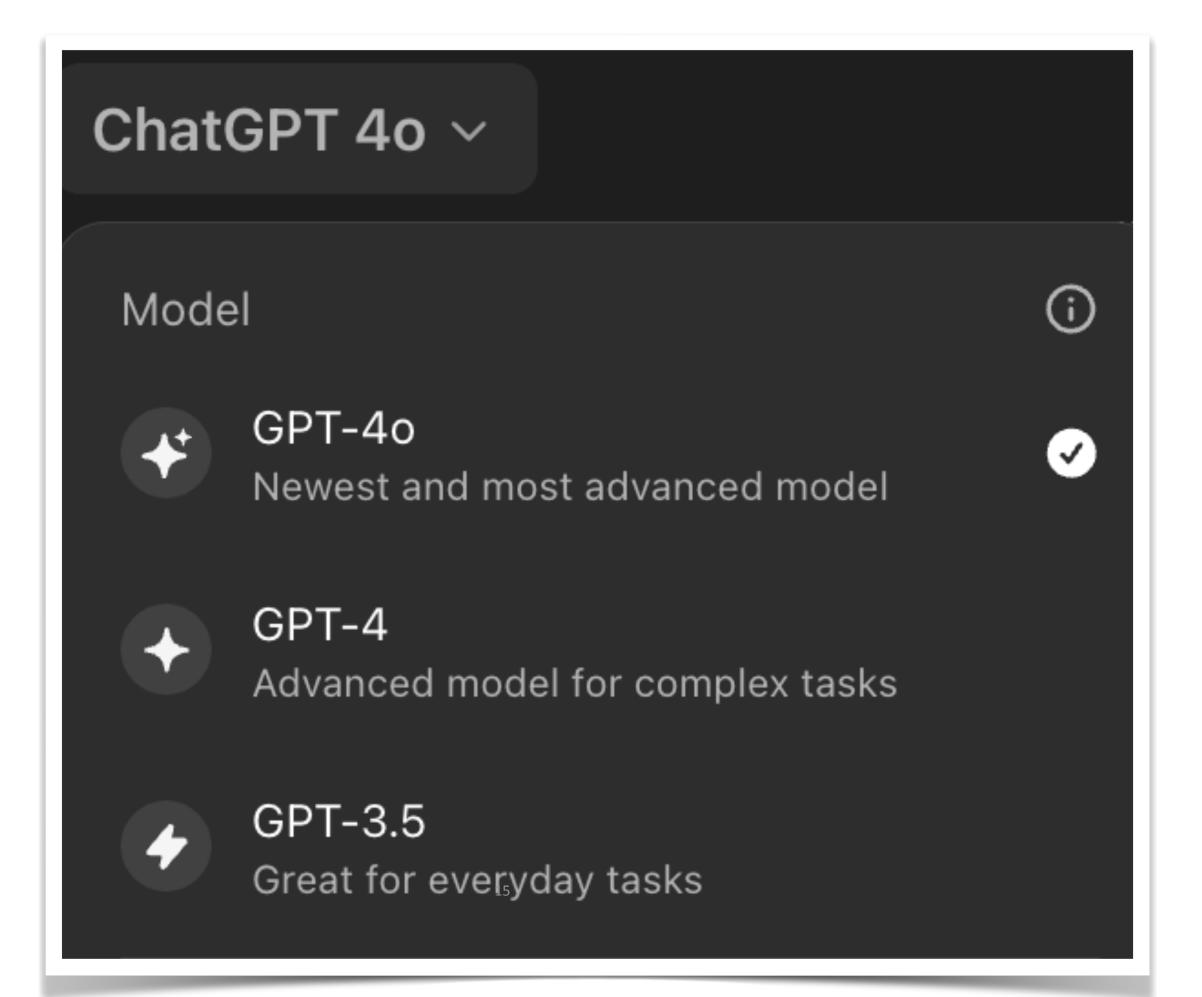


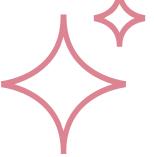


ChatGPT Plus



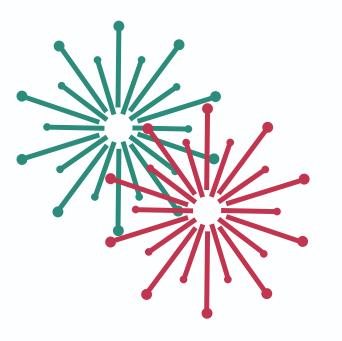








Research Topic [ChatGPT 4o]



I want to do research on chatbots for teaching and learning. Ask for the name of the topic that is getting attention.



To determine the current trends in research on chatbots for teaching and learning, I can search for recent academic papers, articles, and conference proceedings. Let's proceed with that to identify a trending topic in this field.

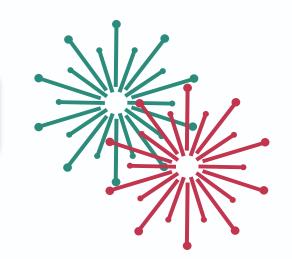
Searched 4 sites

A trending topic in research on chatbots for teaching and learning is the integration of AI chatbots like ChatGPT in educational settings. Current research focuses on several key areas:

- Role and Impact: Studies are investigating the various roles chatbots can play, such as
 teaching agents, peer agents, teachable agents, and motivational agents. These roles help in
 presenting instructions, providing feedback, encouraging peer interactions, and motivating
 students (SpringerOpen) (SpringerLink).
- Benefits and Challenges: Researchers are exploring the advantages of chatbots, such as immediate assistance, personalized learning, and enhanced educational experiences.
 However, they are also examining challenges like ethical concerns, data integration issues, and the need for better usability and training datasets (SpringerOpen).
- Application in Teaching and Learning: There's significant interest in how chatbots can support various subjects and learning activities, with a focus on personalized and adaptive learning approaches (SpringerLink) (MDPI).



Research Topic + Related Research [ChatGPT 4o]



I want to do research on chatbots for teaching and learning. Ask for the name of the topic that is getting attention. And ask for the latest year paper sample ready to show the reference link as well



Searched 4 sites

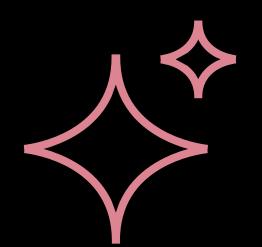
The topic of chatbots for teaching and learning is currently gaining significant attention, especially in the context of generative AI. One of the trending research topics in this area is the integration of chatbots in personalized and gamified learning experiences. This approach leverages AI chatbots to create engaging, interactive, and tailored educational interactions that can improve student motivation and learning outcomes (G2 Research Hub) (SpringerLink).

For a recent example, the paper titled "Modeling Students' Perceptions of Chatbots in Learning: Integrating Technology Acceptance with the Value-Based Adoption Model" by Ahlam Mohammed Al-Abdullatif, published in 2023, explores the drivers of chatbot adoption among students in higher education. This study examines factors such as perceived usefulness, ease of use, enjoyment, and value, providing insights into how chatbots can support distance learning (MDPI).

You can access the full paper here. This paper is a valuable reference for understanding the current trends and student perceptions regarding the use of chatbots in educational settings.



Introduction





Introduction



Simulated as a professor Write an introduction to the research topic.

Application of chat boards to support teaching and learning in educational institutions. With monkeys, examples of related research.

(6)

Introduction: Application of Chatbots to Support Teaching and Learning in Educational Institutions

The integration of technology into education has revolutionized the ways in which teaching and learning occur within educational institutions. Among the various technological advancements, chatbots have emerged as a significant tool that holds the potential to enhance educational experiences. Chatbots, or conversational agents, are Al-driven programs designed to simulate human conversation through text or voice interactions. Their application in education can support both teaching and learning by providing timely information, personalized feedback, and interactive learning experiences.

Background and Rationale

The use of chatbots in education is grounded in the need to provide more flexible, accessible, and engaging learning environments. Traditional methods of instruction often fall short in addressing the diverse needs of students, particularly in large classes where personalized attention is limited. Chatbots can bridge this gap by offering 24/7 support, answering students' queries, and providing resources on demand. This ensures that learning is continuous and not confined to the physical classroom or specific office hours.

Research Aims and Objectives

The primary aim of this research is to investigate the effectiveness of chatbots in supporting teaching and learning within educational institutions. The specific objectives are:

- To evaluate the impact of chatbots on student engagement and learning outcomes.
- To identify the types of tasks and queries that chatbots can most effectively handle in an educational context.
- To assess the perceptions of students and educators regarding the use of chatbots as a supplementary teaching tool.
- To explore the challenges and limitations associated with the implementation of chatbots in educational settings.

Significance of the Study

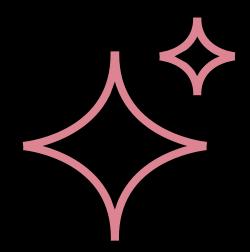
This research will contribute to the growing body of knowledge on the application of artificial intelligence in education. By understanding the potential and limitations of chatbots, educators and policymakers can make informed decisions about integrating these technologies into their teaching strategies. Ultimately, this study aims to enhance the quality of education by leveraging technology to create more responsive, engaging, and supportive learning environments.

In conclusion, the application of chatbots in educational institutions presents a promising avenue for enhancing both teaching and learning. As technology continues to evolve, it is crucial to explore and understand the ways in which these tools can be effectively utilized to meet the diverse needs of students and educators alike.

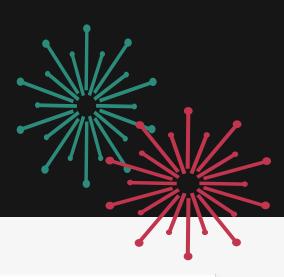


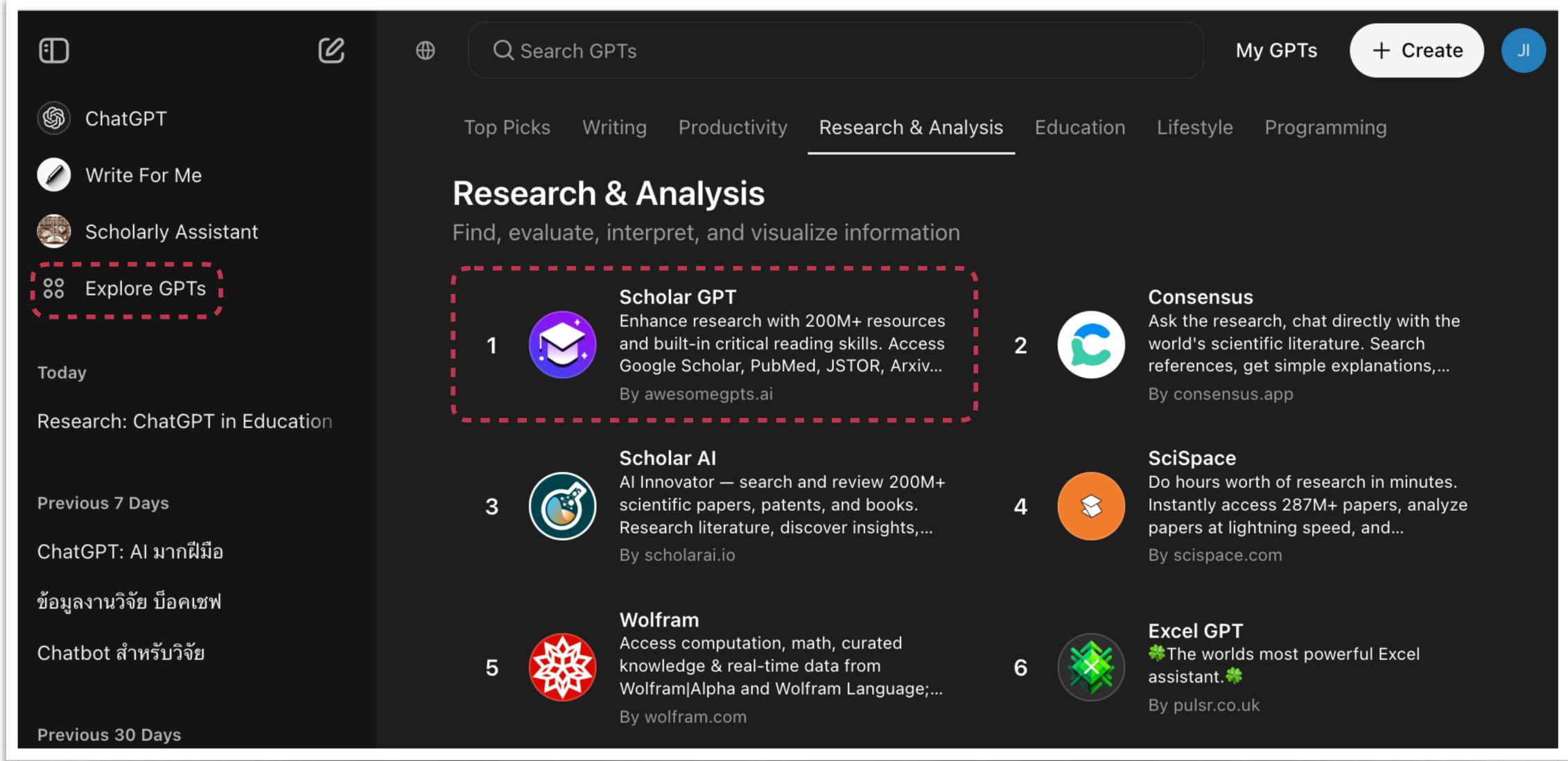


* Related Research



ChatGPT Plus [Scholar GPT]





ChatGPT Plus [Scholar GPT]



I want to do research on teaching and learning of research related to the application in support of teaching and learning in educational institutions. Request related research with a link to the source.







Starting action

Here are several research papers related to the application of teaching and learning in educational institutions:

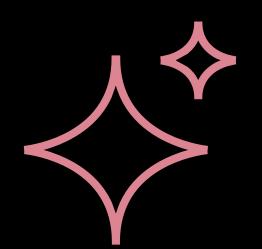
- Difficulties faced by teachers in using ICT in teaching-learning at technical and higher educational institutions of Uganda
 - Authors: T Habibu, MD Abdullah-Al-Mamun
 - · Link: Read Paper
- Achieving an appropriate balance between teaching and research in institutions of higher education: An exploratory study
 - · Author: MA Khan
 - Link: Read Paper

- 3. Teacher educators' conception of teaching and learning in teacher education institutions
 - Authors: TB Igwebuike, CO Okandeji
 - Link: Read Paper
- 4. Innovative teaching and learning methodologies for higher education Institutions
 - Author: A Nicolaides
 - Link: Read Paper
- Teaching and research: New relationships and their implications for inquiry-based teaching and learning in higher education
 - Author: A Brew
 - Link: Read Paper
- 6. The era of digital technology in teaching and learning in Nigeria Educational Institutions
 - Author: BF Adeoye
 - Link: Read Paper
- 7. The response of higher education institutions to regional needs
 - Authors: P Chatterton, J Goddard
 - Link: Read Paper
- 8. Factors affecting the effective implementation of e-learning in educational institutions
 - · Authors: M Afshari, HB Kenayathulla, AR Idris, MS Ibrahim
 - · Link: Read Paper



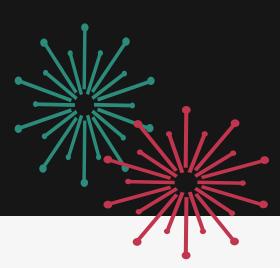


Research Design





Research Design





Research Methods and Tools for Investigating the Application of ChatGPT in Support of Teaching and Learning in Educational Institutions

1. Research Design

- Purpose: Investigate the effectiveness and impact of ChatGPT in supporting teaching and learning processes in educational institutions.
- Approach: Mixed-methods research combining quantitative and qualitative data to gain comprehensive insights.

2. Research Questions

- How does ChatGPT support teaching and learning in educational institutions?
- What are the perceptions of educators and students regarding the use of ChatGPT?
- What are the measurable impacts of ChatGPT on student learning outcomes and engagement?

3. Participants

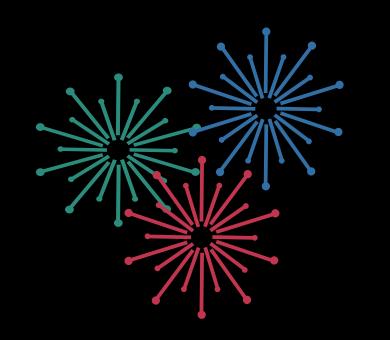
- Sample Size: Approximately 100-200 participants, including educators and students.
- Selection Criteria: Participants from diverse educational backgrounds and institutions, including those who have used ChatGPT and those who have not.

5. Data Analysis

- Quantitative Analysis: Statistical analysis of survey data to identify trends, correlations, and significant findings.
 - Tool: Statistical software (e.g., SPSS, R).
 - Methods: Descriptive statistics, inferential statistics, and regression analysis.
- Qualitative Analysis: Thematic analysis of interview and focus group transcripts to identify key themes and insights.
 - Tool: Qualitative data analysis software (e.g., NVivo, ATLAS.ti).
 - Methods: Coding, categorization, and theme development.
- Triangulation: Combining data from different sources to validate findings and ensure reliability.

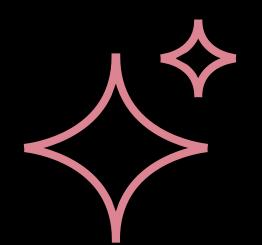
6. Ethical Considerations

- Informed Consent: Ensure participants are fully informed about the study's purpose, procedures, and their rights.
- Confidentiality: Protect participants' privacy and ensure data anonymity.
- Voluntary Participation: Emphasize that participation is voluntary and participants can withdraw at any time.





* Create Questionnaire

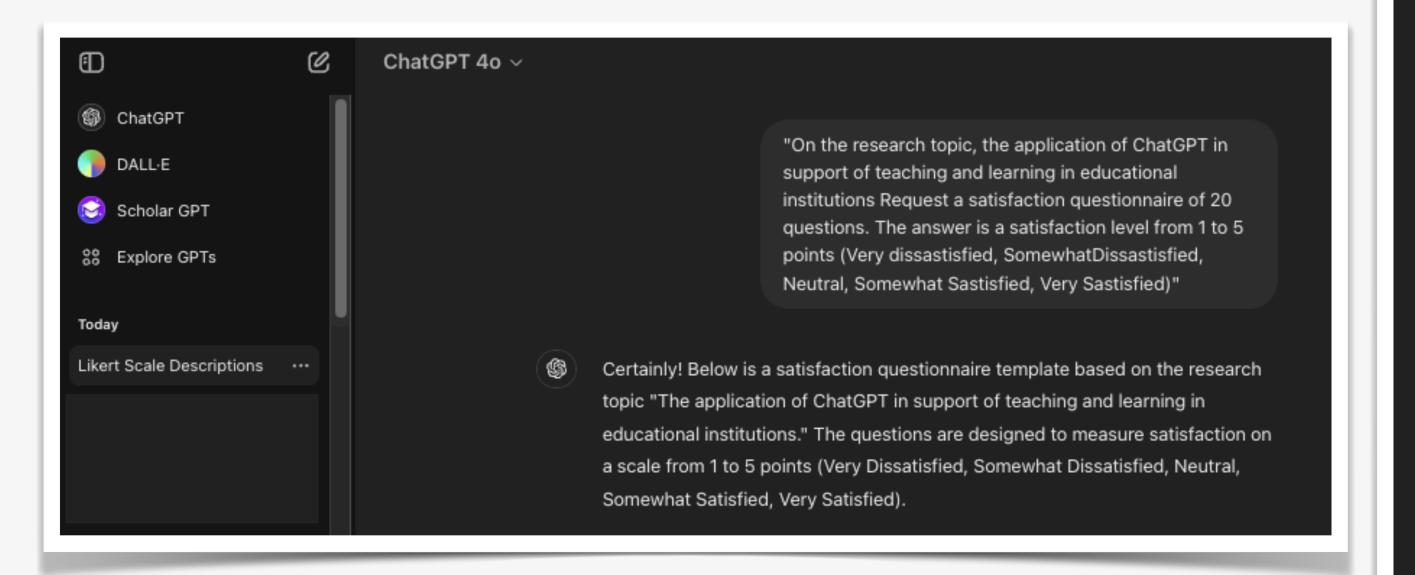




Create Questionnaire



"On the research topic, the application of ChatGPT in support of teaching and learning in educational institutions Request a satisfaction questionnaire of 20 questions. The answer is a satisfaction level from 1 to 5 points (Very dissastisfied, Somewhat Dissastisfied, Neutral, Somewhat Sastisfied, Very Sastisfied)"



Satisfaction Questionnaire: The Application of ChatGPT in Support of Teaching and Learning

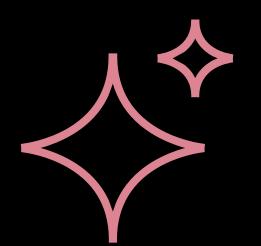
Instructions:

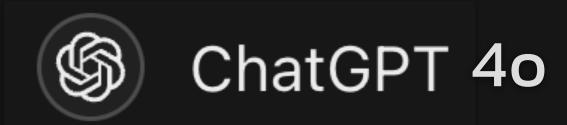
Please indicate your level of satisfaction with each statement by selecting the appropriate option on the scale from 1 to 5, where:

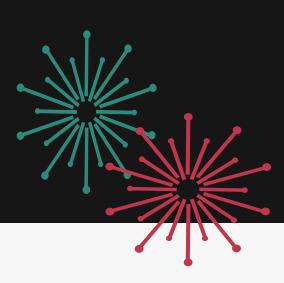
- 1 = Very Dissatisfied
- 2 = Somewhat Dissatisfied
- 3 = Neutral
- 4 = Somewhat Satisfied
- 5 = Very Satisfied
- How satisfied are you with the ease of use of ChatGPT in the classroom?
- How satisfied are you with the accuracy of ChatGPT's responses to educational queries?
- 3. How satisfied are you with the relevance of the content generated by ChatGPT in your lessons?
- 4. How satisfied are you with the ability of ChatGPT to engage students in discussions?
- 5. How satisfied are you with the impact of ChatGPT on students' learning outcomes?
- 6. How satisfied are you with the integration of ChatGPT into existing teaching practices?
- How satisfied are you with the support provided by ChatGPT in creating teaching materials?
- 8. How satisfied are you with the ability of ChatGPT to cater to diverse learning needs?
- How satisfied are you with the timeliness of ChatGPT's responses during lessons?
- 10. How satisfied are you with the reliability of ChatGPT's performance during class activities?
- 11. How satisfied are you with the students' reception of ChatGPT as a teaching tool?
- 12. How satisfied are you with the way ChatGPT enhances students' critical thinking skills?
- 13. How satisfied are you with the overall contribution of ChatGPT to the learning environment?
- 14. How satisfied are you with the training and resources provided to use ChatGPT effectively?
- 15. How satisfied are you with the way ChatGPT handles complex subject matter?
- 16. How satisfied are you with the potential of ChatGPT to reduce your workload as an instructor?
- 17. How satisfied are you with the ability of ChatGPT to assist with student assessments?

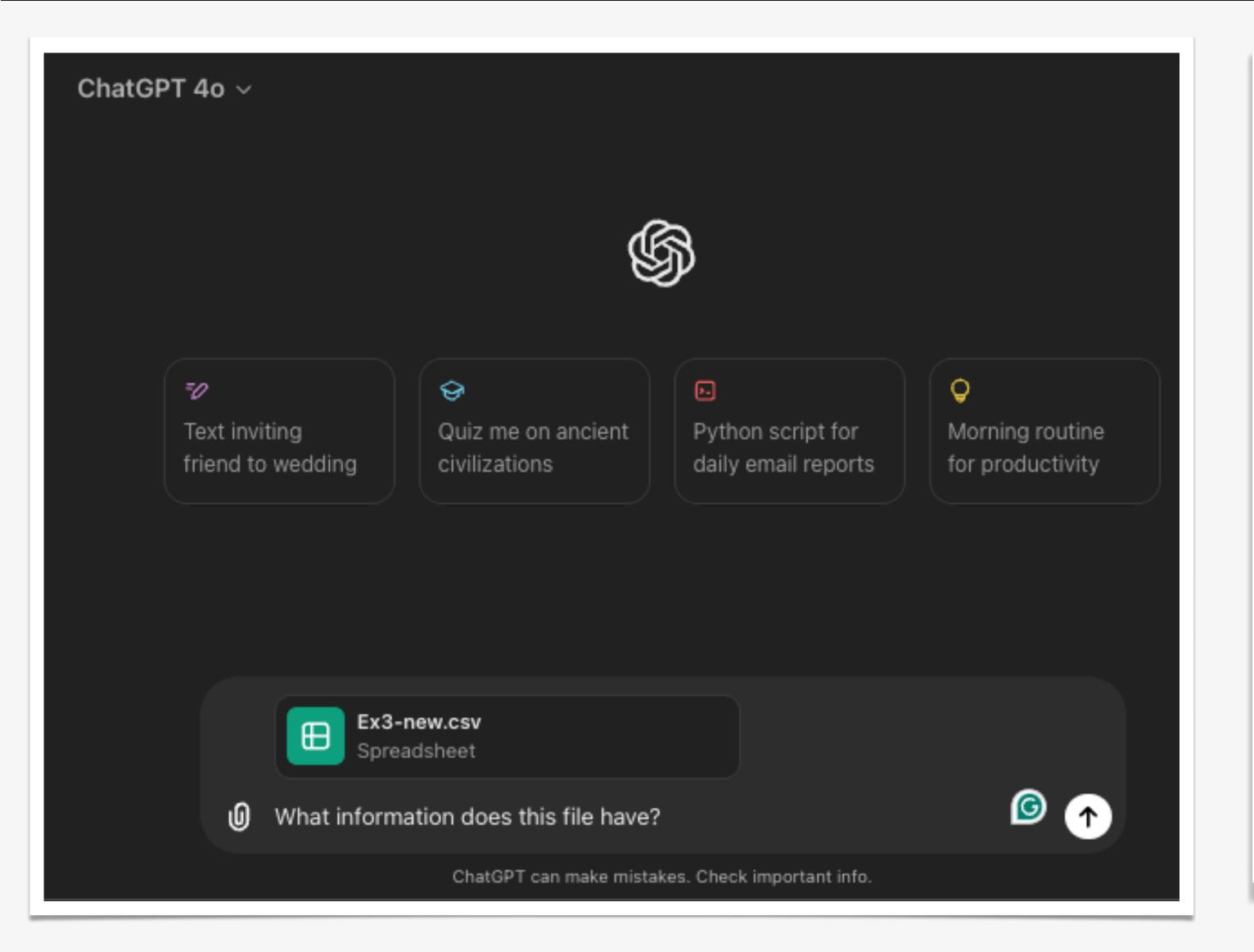


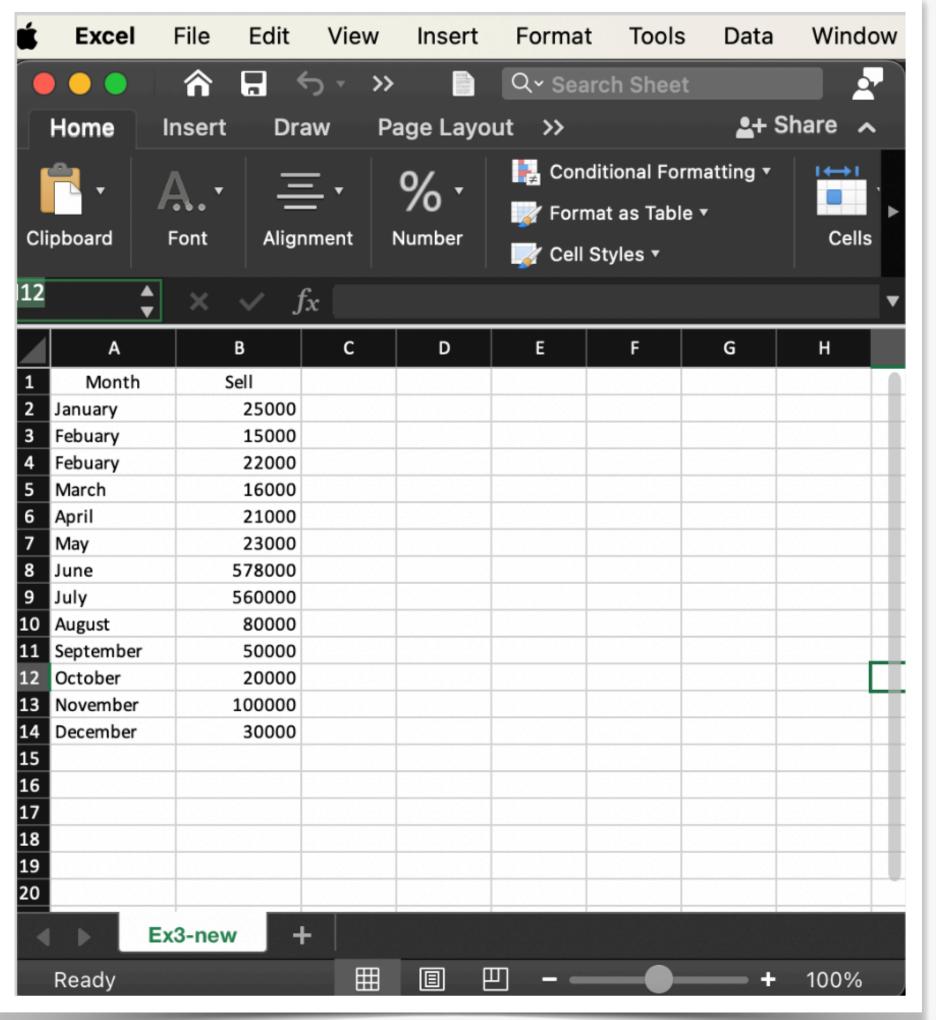


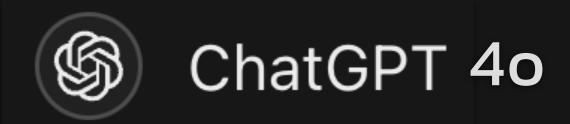


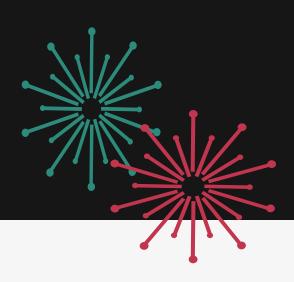


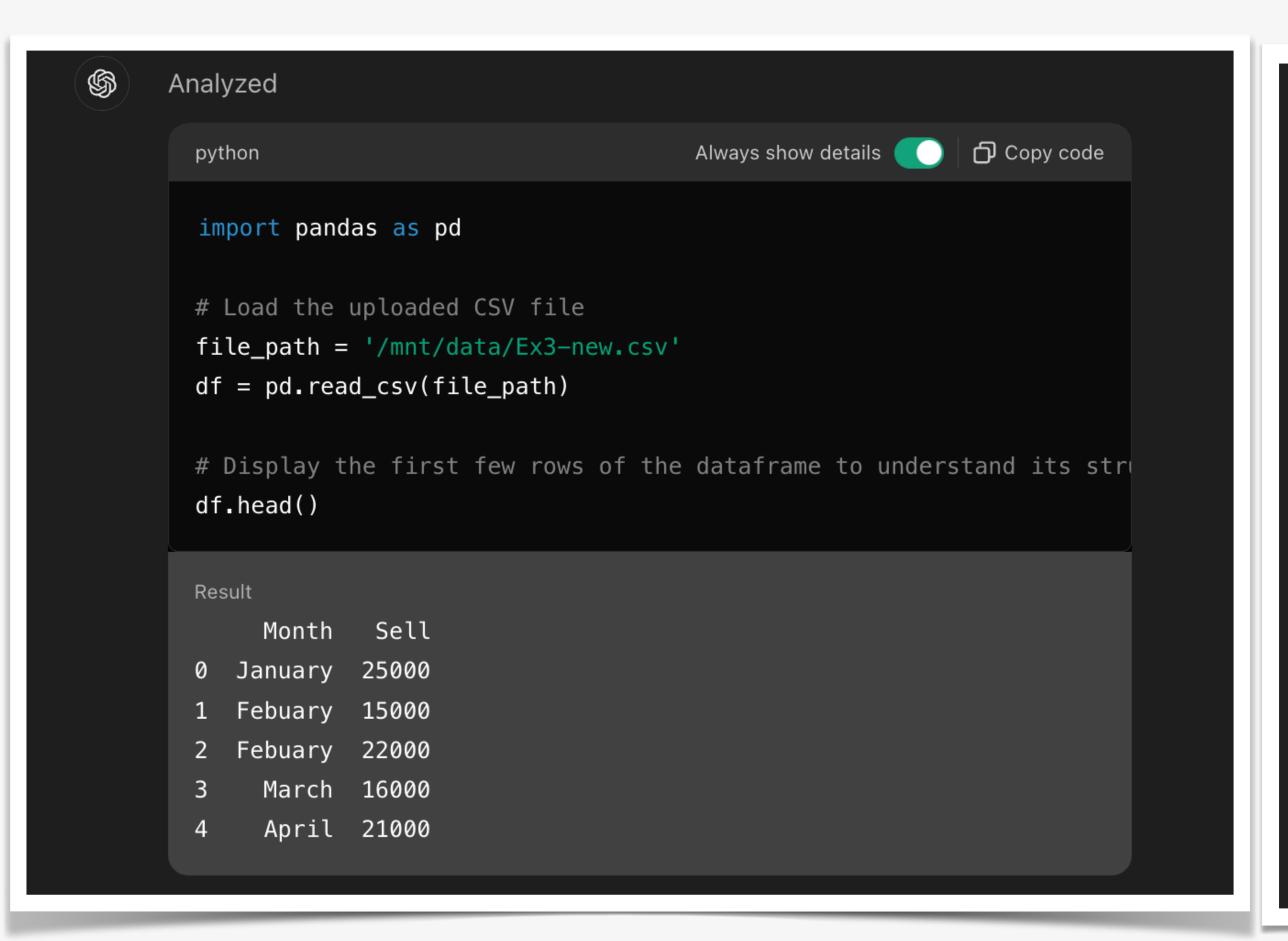


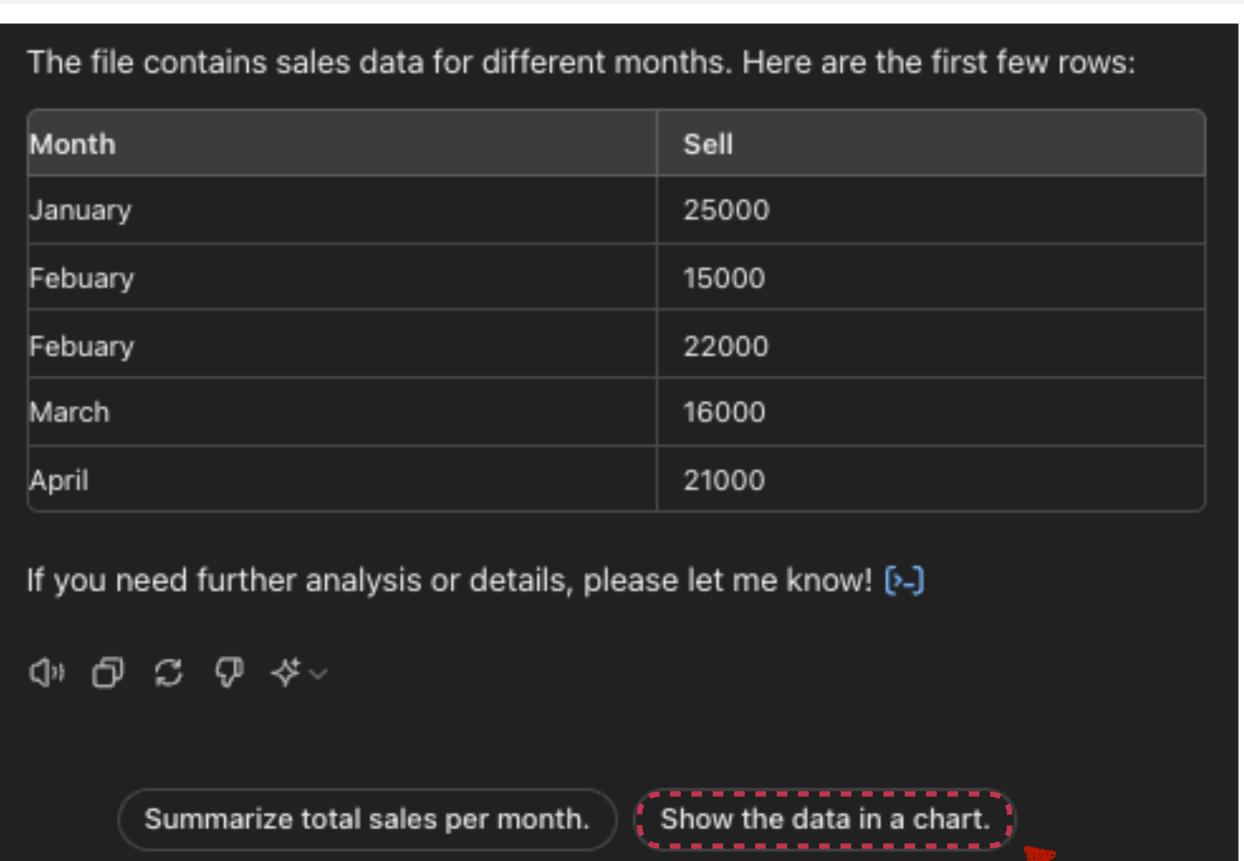










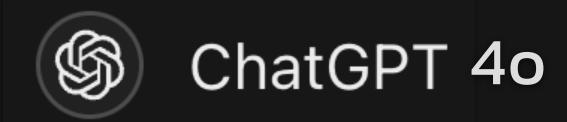


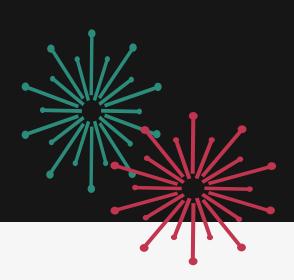




```
Analyzed
                                       Always show details
                                                            Copy code
 python
  import matplotlib.pyplot as plt
 # แก้ไขชื่อเดือนที่พิมพ์ผิด
 df['Month'] = df['Month'].replace({'Febuary': 'February'})
  # จัดกลุ่มและรวมยอดขายต่อเดือน
 monthly_sales = df.groupby('Month')['Sell'].sum().reindex(['January
 # สร้างกราฟ
 plt.figure(figsize=(10, 6))
 monthly_sales.plot(kind='bar', color='skyblue')
 plt.title('Monthly Sales')
 plt.xlabel('Month')
 plt.ylabel('Sales')
 plt.xticks(rotation=45)
 plt.grid(axis='y')
  # แสดงกราฟ
 plt.tight_layout()
 plt.show()
```







```
python

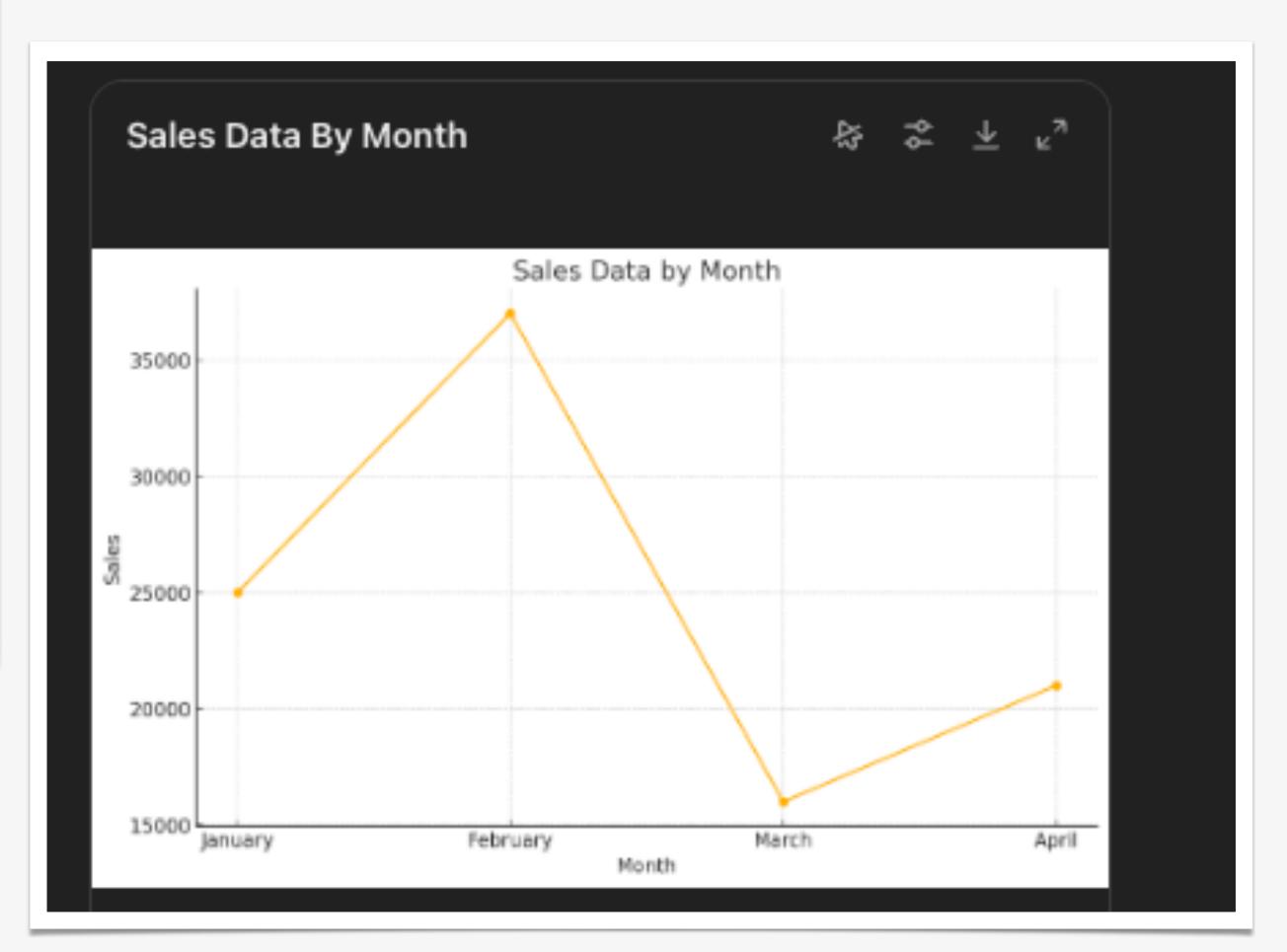
Always show details

(Copy code

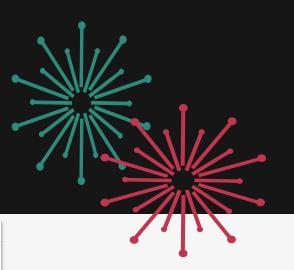
# สร้างกราฟเล้น
plt.figure(figsize=(10, 6))
monthly_sales.plot(kind='line', marker='o', color='skyblue')
plt.title('Monthly Sales')
plt.xlabel('Month')
plt.ylabel('Sales')
plt.ylabel('Sales')
plt.xticks(rotation=45)
plt.grid(True)

# แสดงกราฟ
plt.tight_layout()
plt.show()
```

Switch to static chart







What data can this file analyze?



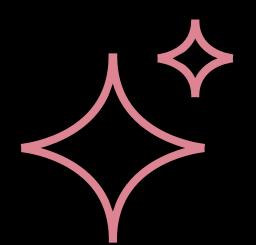
The file contains monthly sales data, and it can be analyzed to provide various insights and reports. Here are some of the analyses you can perform with this data:

- Monthly Sales Totals: Summing the sales for each month to understand total sales.
- Sales Trends: Plotting sales over time to identify trends, seasonality, or irregular patterns.
- Average Sales: Calculating the average sales per month to understand typical performance.
- Sales Variability: Identifying the minimum and maximum sales per month to understand the range of sales figures.
- Sales Growth: Comparing sales from month to month to identify growth rates or declines.
- Comparative Analysis: Comparing sales performance between different months.
- 7. Forecasting: Using historical data to forecast future sales.
- 8. Outlier Detection: Identifying any unusual or extreme values in the sales data.

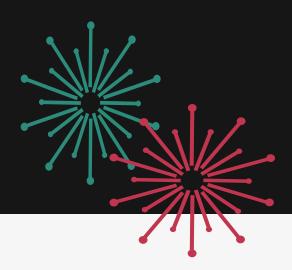




Analysis of results







หารางที่ 9 แสดงค่ำ KMO and Bartlett's test

Kaiser-Meyer-Olkin Measure of Sampling Adequacy 0.807
Bartlett's Test of Sphericity Approx. Chi-Square 48296.01
off 5671
sig 0.000*

"Analyze the results



The table shows the results of the Kaiser-Meyer-Olkin (KMO) Measure of Sampling Adequacy and Bartlett's Test of Sphericity. Here's an analysis of these results:

Kaiser-Meyer-Olkin (KMO) Measure of Sampling Adequacy

KMO value: 0.807

Interpretation: The KMO value indicates the adequacy of the sample size for factor analysis.
 Values range from 0 to 1, with higher values indicating that the sample is suitable for factor analysis. A value between 0.8 and 0.9 is considered "meritorious," suggesting that the sample size is quite adequate for factor analysis.

Bartlett's Test of Sphericity

Approx. Chi-Square: 48296.01

• Degrees of Freedom (df): 5671

• Significance (sig): 0.000

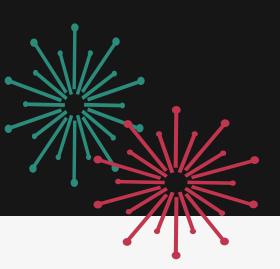
Interpretation: Bartlett's Test of Sphericity tests the null hypothesis that the correlation
matrix is an identity matrix. A significant test (p < 0.05) indicates that the variables are
sufficiently correlated for factor analysis. Here, the significance value is 0.000, which is highly
significant (p < 0.05), indicating that the variables are indeed correlated and suitable for
factor analysis.

Analysis Results

Conclusion

- The KMO value of 0.807 suggests that the sample is adequate for factor analysis.
- The highly significant Bartlett's Test of Sphericity (p = 0.000) confirms that the correlation matrix is not an identity matrix, indicating that the variables are correlated and suitable for factor analysis.





Explain how to do factor analysis

Factor analysis is a statistical method used to identify underlying relationships between variables by grouping them into factors. Here's a step-by-step guide on how to conduct factor analysis:

Step-by-Step Guide to Factor Analysis

1. Define the Objective:

 Determine the purpose of the factor analysis. Are you trying to reduce the number of variables, identify underlying constructs, or both?

2. Prepare the Data:

- Data Collection: Ensure that you have collected data from a sufficiently large sample size. A common rule of thumb is at least 5-10 observations per variable.
- Data Cleaning: Check for and handle any missing values, outliers, and ensure that the data meets the assumptions for factor analysis.

3. Assess Suitability of Data:

- KMO and Bartlett's Test: Conduct the Kaiser-Meyer-Olkin (KMO) Measure of Sampling Adequacy and Bartlett's Test of Sphericity to assess the suitability of your data for factor analysis.
 - KMO: Should be greater than 0.6.
 - Bartlett's Test: Should be significant (p < 0.05).

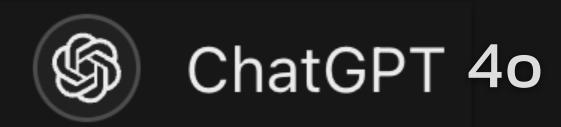
Explain the method

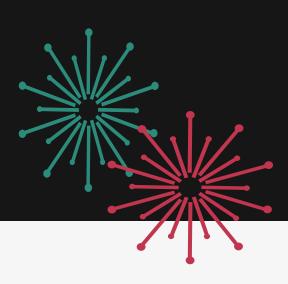
4. Extract Initial Factors:

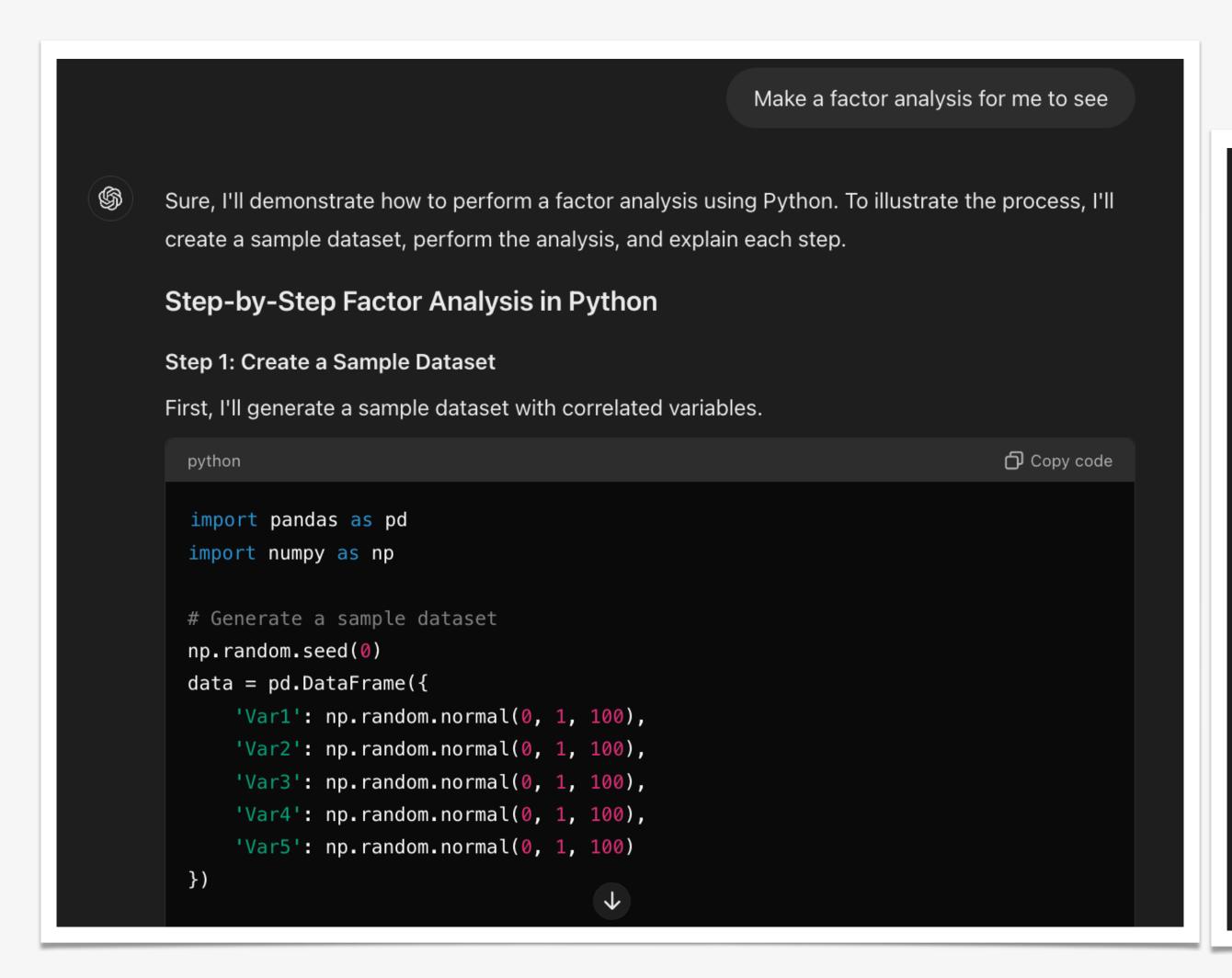
- Choose a method for factor extraction. The most commonly used methods are:
 - Principal Component Analysis (PCA): Used when the goal is to reduce the dimensionality of the data.
 - Common Factor Analysis: Used when the goal is to identify underlying latent variables.
- Decide on the number of factors to extract using methods like:
 - Eigenvalues: Factors with eigenvalues greater than 1.
 - Scree Plot: Plot the eigenvalues and look for a natural bend or elbow.
 - Parallel Analysis: Compare the size of eigenvalues with those obtained from randomly generated data.

5. Rotate the Factors:

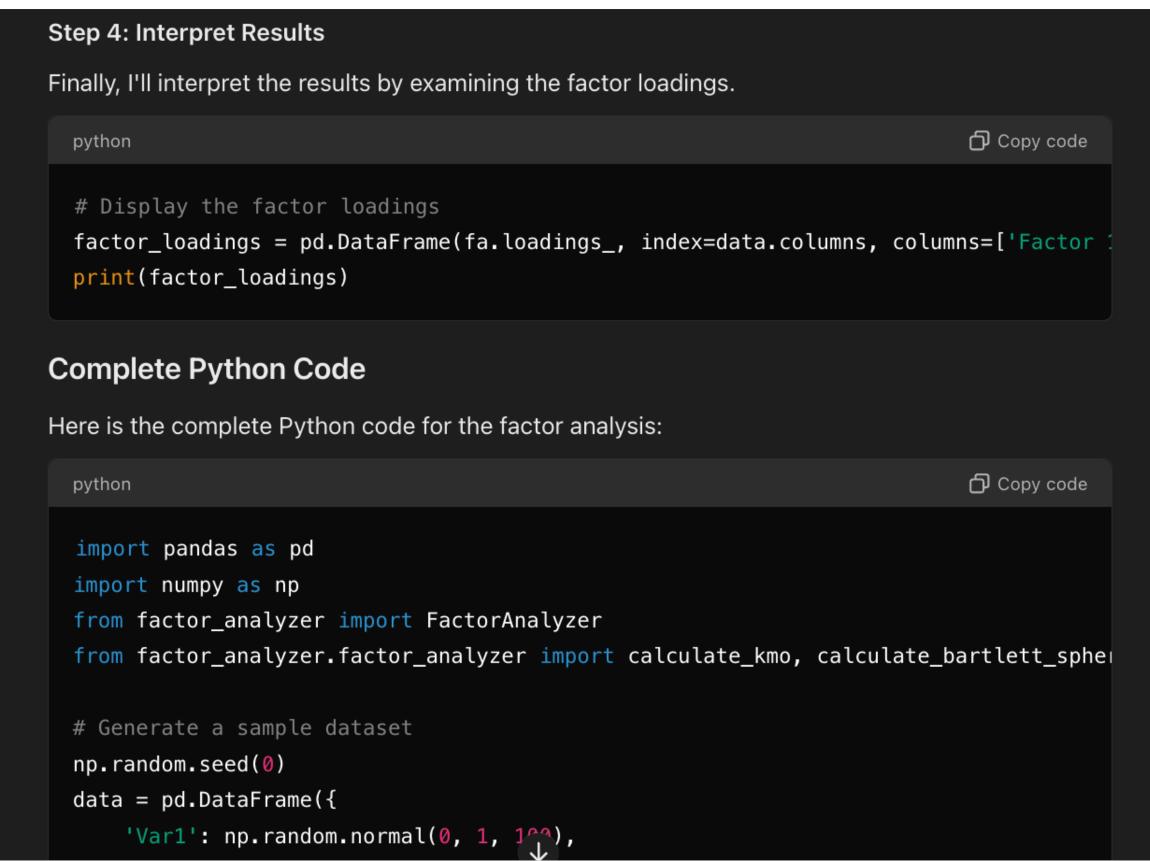
- Rotation helps in making the output more interpretable. Common rotation methods include:
 - Orthogonal Rotation (e.g., Varimax): Assumes factors are uncorrelated.
 - · Oblique Rotation (e.g., Promax): Allows for correlated factors.

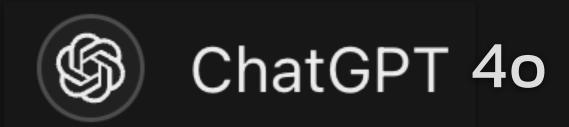


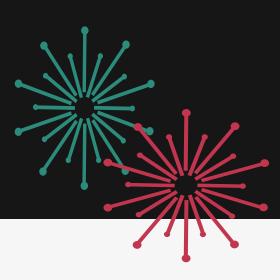


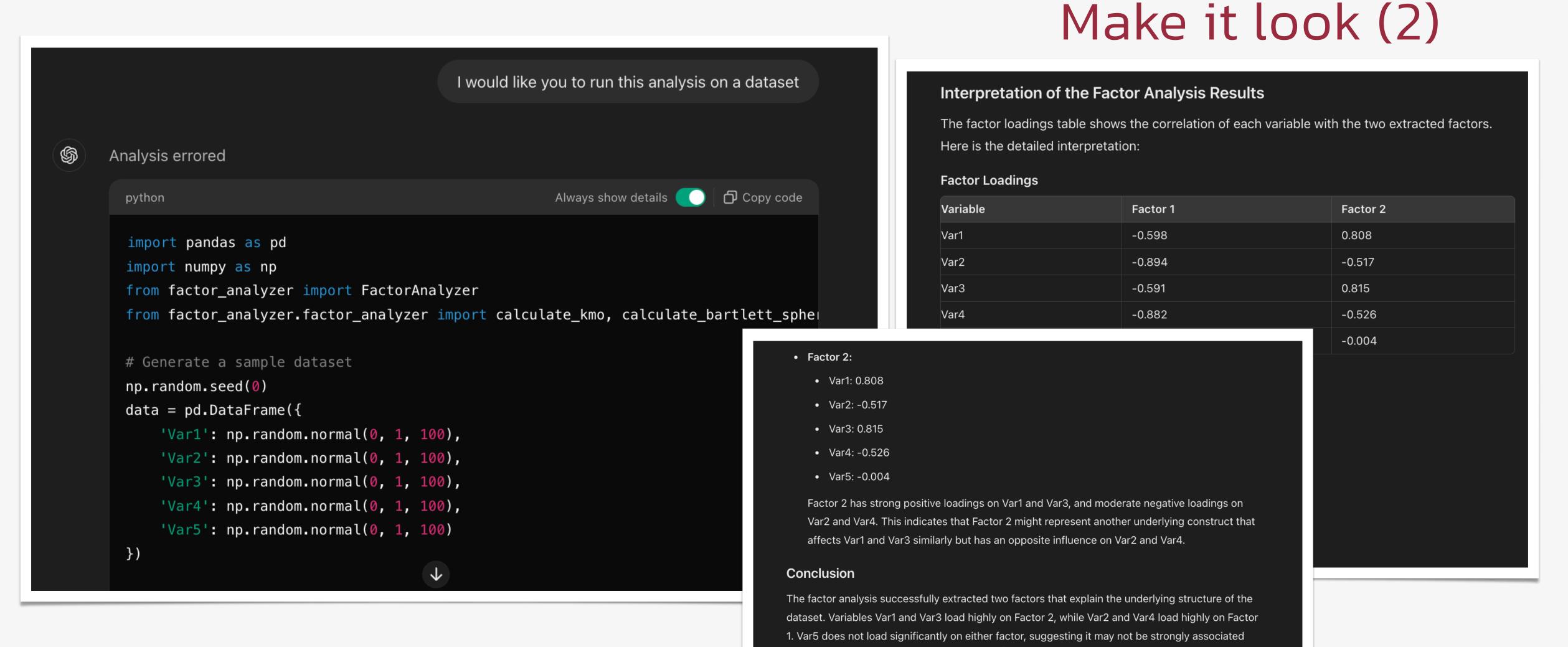


Make it look (1)









with the underlying constructs represented \checkmark the factors.