



ChatGPT Integration

Custom Widget for
SAP Analytics Cloud

By Rohit Chouhan

What is ChatGPT Custom Widget?



This ChatGPT custom widget allows you to embed an interactive AI chat box directly into your SAP Analytics Cloud story.



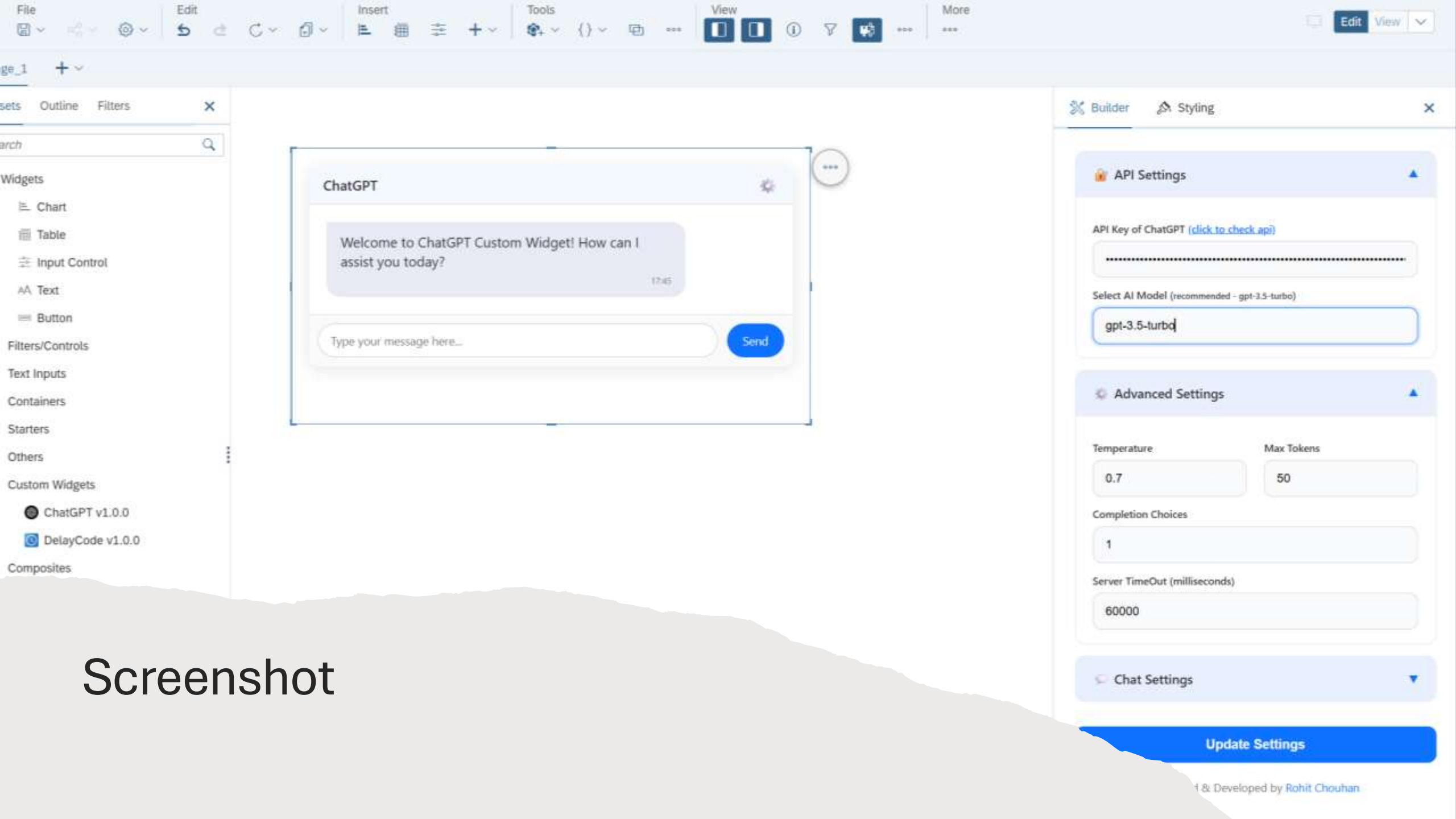
It supports multiple advanced features and is highly configurable and responsive.



You simply need to provide your OpenAI API key and select the model (like gpt-4, gpt-3.5-turbo, etc.).



Additional parameters such as max_tokens, temperature, and n (number of responses) can also be customized to fine-tune the chatbot's behavior.



Screenshot



Features



API Settings

- **API Key of ChatGPT:** A secret key used to authenticate and access the ChatGPT API.
 - **Check API** – Validate API Key
- **Select AI Model:** Choose which AI model to use (e.g., gpt-3.5-turbo, gpt-4.0) for responses.

Bonus Note: I recommend using the **gpt-3.5-turbo** model, as it is the most cost-effective option available. It offers reliable performance at a lower cost, and it will respond to all your queries without any limitations same likes other models.

 **API Settings** 

API Key of ChatGPT [\(click to validate api\)](#)



Enter ChatGPT API Key

Select AI Model (recommended - gpt-3.5-turbo)

gpt-3.5-turbo

Advanced Settings

- **Temperature:** Controls response creativity (higher = more random).
- **Max Tokens:** Limits response length.
- **Completion Choices:** Number of response variations generated.
- **Server Timeout:** Time limit before the request is canceled, if there is internet or server issue.

 Advanced Settings 

Temperature

0.7

Max Tokens

150

Completion Choices

1

Server TimeOut (milliseconds)

60000

What is Temperature?

Temperature is a setting used in language models to control the randomness or creativity of the generated responses.

If I ask, “What is SAP?”

Temperature	Response
0.0 (Very deterministic)	SAP is a German software company that provides enterprise resource planning (ERP) software to manage business operations and customer relations.
0.5 / 0.7 (Balanced, slightly creative)	SAP is a leading global provider of ERP software, helping businesses manage operations like finance, logistics, and human resources.
1.0 (Creative and diverse wording)	SAP is a major tech company offering tools that help companies streamline their data, processes, and business insights across departments.
1.5 (Imaginative, less predictable)	SAP is like the digital brain of large organizations, connecting various business functions—finance, sales, HR—into one smart, automated system.
2.0 (Highly creative, possibly exaggerated or abstract)	Imagine a digital symphony where data sings and business dances—SAP conducts this orchestra, turning corporate chaos into operational harmony.

What is Max Tokens?

Max Tokens is a parameter that controls the maximum length of the response generated by a language model.

If I ask, “What is SAP?”


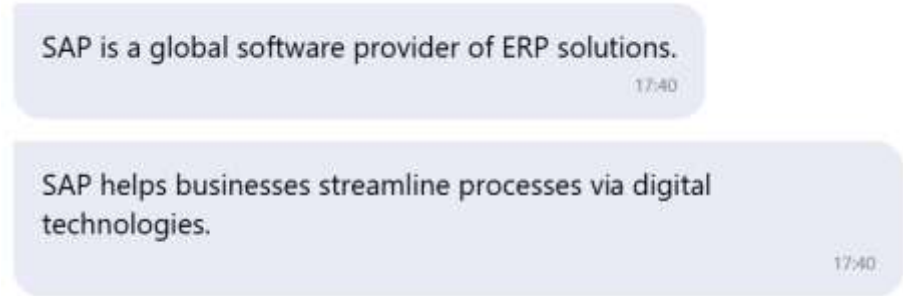
Max Token	Response
10	SAP is enterprise software for managing business processes.
50	SAP is a global software company that provides ERP solutions, helping businesses manage their operations, finance, and human resources.
100	SAP is a multinational company based in Germany that develops enterprise resource planning (ERP) software. Its solutions help organizations streamline operations across finance, supply chain, human resources, and customer relationships.
200	SAP (Systems, Applications, and Products in Data Processing) is a leading global provider of enterprise application software. Headquartered in Germany, SAP helps businesses of all sizes and industries run better by offering solutions for enterprise resource planning (ERP), customer relationship management (CRM), supply chain management (SCM), and more. Its software integrates various business functions, enabling companies to collect, process, and analyze data efficiently to improve decision-making and operational efficiency.

Bonus Note: I recommend using the minimum necessary value for max tokens, as higher token limits significantly impact the cost of using the ChatGPT API.

What is Completion Choices?



Completion Choices refers to the number of different responses (or "completions") the AI generates for a single prompt (inputted message).

If I ask, "What is SAP?"

Completion Choices	Response
1 (one response)	 A screenshot of a single AI response. The text reads: "SAP is a global tech leader offering ERP software to help businesses manage operations, finances, and customer relations." The timestamp "17:39" is visible in the bottom right corner of the response bubble.
2 (two response)	 A screenshot showing two separate AI responses. The first response reads: "SAP is a global software provider of ERP solutions." with a timestamp of "17:40". The second response reads: "SAP helps businesses streamline processes via digital technologies." with a timestamp of "17:40".

Chat Settings

- **Header Label:** Text Label for Chat Box Header.
- **Welcome Message:** Default welcome message from ChatGPT.
- **Chat Input Hint:** Chat Input Hint (Placeholder) text.
- **Box Height:** Maximum Chat Box Height.
- **Button Label:** Text Label for Send Button.

 Chat Settings 

Header Label



Welcome Message

Chat Input Hint

Box Height (Max)

Button Label

Chat Styling Preview

 Chat Settings 

Header Label

ChatGPT

Welcome Message

Welcome to ChatGPT Custom Widget! How can I assist you toda

Chat Input Hint

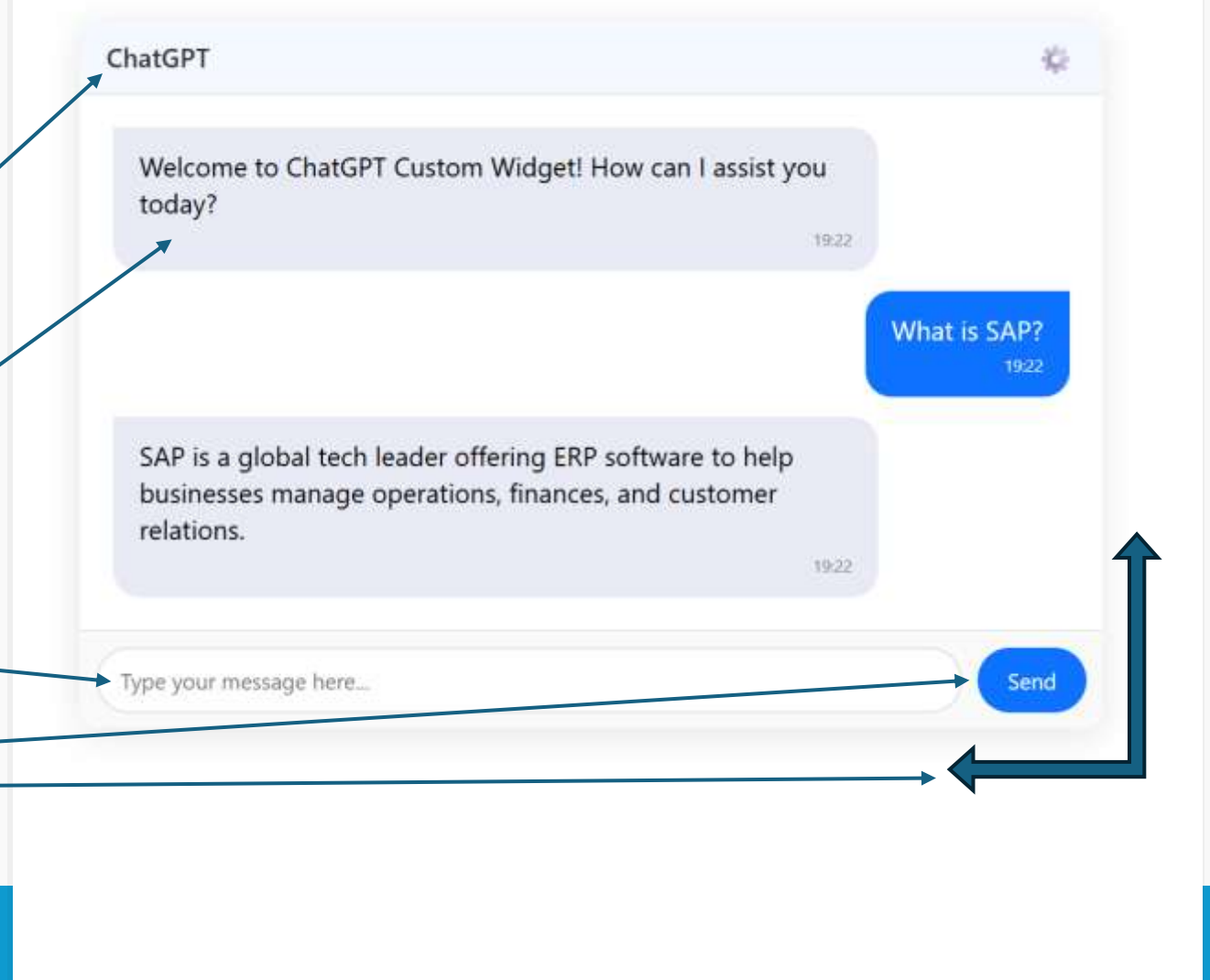
Type your message here...

Box Height (Max)

40

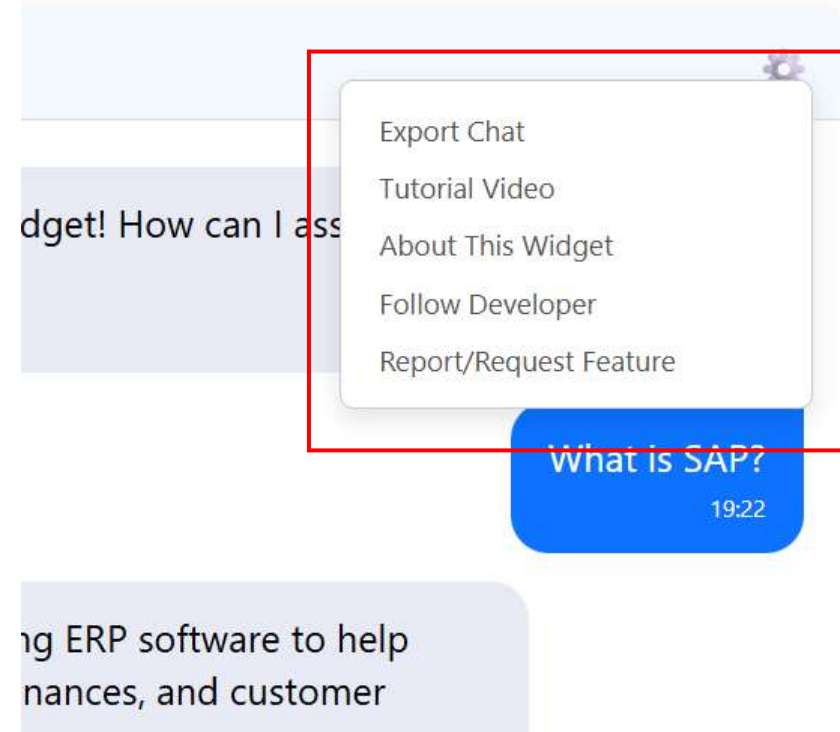
Button Label

Send



Menu Options

- **Export Chat:** Export all chat into text file.
- **Tutorial Video:** Link to tutorial and guidance video for this widget.
- **About This Widget:** GitHub repository link
- **Follow Developer:** Developer “Rohit Chouhan” website
- **Report/Request Feature:** Link to report and feature page, if you want to report any bug or request any feature.



Bonus Links

- ChatGPT/OpenAI API Creation Page : <https://platform.openai.com/api-keys>
- Track Your API Usage: <https://platform.openai.com/usage>
- All OpenAI Models List: <https://platform.openai.com/docs/models>
- All OpenAI Models List with Cost: <https://platform.openai.com/docs/pricing>
- Compare Multiple Models: <https://platform.openai.com/docs/models/compare>

- Blog/Documentation: <https://community.sap.com/t5/technology-blog-posts-by-members/chatgpt-meets-sap-analytics-cloud-a-developer-s-guide-to-chatgpt-custom/ba-p/14149503>
- How to Generate ChatGPT API: <https://www.youtube.com/watch?v=Fbc0dejCbA>
- YouTube Video: <https://www.youtube.com/watch?v=bmwkrDsXNTA>

- Custom Widget GitHub Link: <https://github.com/SAP-Custom-Widget/ChatGPT>
- Contact Developer: <https://www.rohitchouhan.com> or <https://linkedin.com/in/itsrohitchouhan>



About Developer

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