

# Chatbot using function calling feature of OPENAI

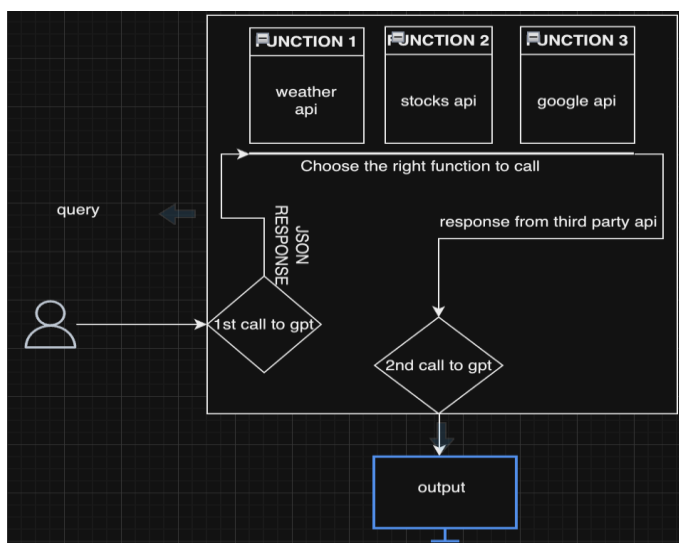
## Introduction:

- **Purpose of the chatbot** :- It is a chatbot which is exposed to live data and can answer to the queries which normal chatgpt can't.
- **Key Technology Used** :- Openai's gpt-3.5-turbo-0613 model is utilized, function call feature, flask, Prompt engineering
- **Function Call** :- Function calling allows you to more reliably get structured data back from the model. The basic sequence of steps for function calling is as follows:
  1. Call the model with the user query and a set of functions defined in the [functions parameter](#).
  2. The model can choose to call a function; if so, the content will be a stringified JSON object adhering to your custom schema (note: the model may generate invalid JSON or hallucinate parameters).
  3. Parse the string into JSON in your code, and call your function with the provided arguments if they exist.
  4. Call the model again by appending the function response as a new message, and let the model summarize the results back to the user.

## Functionalities :-

- It can answer to queries related to weather, integrated weather API and defined a function.
- It can also answer to stocks related queries, such as what is the current price of the wipro. Integrated stocks API of rapidapi.
- It can search on google using google search API.

## Architecture :-



**Conclusion :-**

In conclusion, the creation of this Flask web application marks a significant leap forward in the realm of interactive and dynamic conversational experiences. By seamlessly integrating OpenAI's function call feature with real-time APIs such as weather, stocks, and Google search, this chatbot has evolved into a versatile and invaluable tool. Users can engage in natural and fluid conversations, receiving instant responses that are not only informative but also tailored to the ever-changing context of the present moment. The fusion of AI-driven intelligence and real-time data retrieval empowers this chatbot to provide accurate and up-to-date information, enhancing user engagement and satisfaction. As technology continues to evolve, this project exemplifies the potential of harnessing cutting-edge tools to create engaging and dynamic applications that redefine the way we interact with information.

Link to access the project :- [github](#)

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