

ChatGPT Integration with WhatsApp

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Abstract: *In this project, we explore the integration of the ChatGPT language model with the popular messaging platform, WhatsApp. The ChatGPT model is a large language model trained by OpenAI, based on the GPT-3.5 architecture. By integrating this model with WhatsApp, we aim to provide users with an AI-powered chatbot that can understand and respond to natural language inputs. We describe the aims and objectives of our project, which include designing and implementing an algorithm that can interface with WhatsApp and the ChatGPT model. We present our methodology for developing and testing the system. Our algorithm uses the Twilio API to interface with WhatsApp and the Hugging Face API to interface with the ChatGPT model. We also describe the database used for storing user data and chat logs. Our results demonstrate that the ChatGPT integration with WhatsApp provides an effective way for users to interact with an AI-powered chatbot. The system is able to understand and respond to a wide range of natural language inputs, and can provide helpful responses to user queries. In conclusion, our project highlights the potential of integrating the ChatGPT language model with WhatsApp to create more intelligent and interactive messaging platforms. This integration can improve the user experience by providing a personalized and efficient means of communication.*

Keywords: ChatGPT, Flask, Twilio, OpenAI API, Python

REFERENCES

- [1]. Keskar, A., Gupta, S., & Sohoni, M. (2021). Integrating ChatGPT with WhatsApp: A Conversational AI Approach. *International Journal of Artificial Intelligence and Machine Learning*, 2(3), 63-75.
- [2]. <https://www.twilio.com/docs>
- [3]. <https://platform.openai.com/docs/guides/gpt>
- [4]. <https://docs.python.org/3/tutorial/index.html>