

AI Chatbot Using Google Generative AI

This project is a simple AI chatbot built using the google-generativeai Python package. The chatbot can hold conversations and respond to user inputs using the power of Google's Generative AI.

Project Overview

The chatbot uses Google's generative AI model, gemini-pro, to generate conversational responses. This is done through an API integration, which allows for real-time communication between the chatbot and the user.

Key Features

- Real-time conversation with natural language processing.
- Easy to set up and customize.
- Simple and intuitive Python implementation.

Requirements

- Python 3.8 or higher
- google-generativeai package
- A valid API key from Google Generative AI

Installation

1. **Clone or download** the project files.
2. **Install the required package:**

```
bash  
pip install google-generativeai
```

3. Configure your API key:

- Sign up for access to Google's Generative AI API if you haven't already.
- Replace 'your_api_key' in the code with your actual API key.

Usage

1. Run the chatbot:

```
bash  
python chatbot.py
```

2. Interact with the chatbot:

- Enter your messages, and the chatbot will respond.
- Type 'bye' to end the conversation.

Code Explanation

Here's a brief explanation of the code:

- **Importing the Package:** The `google.generativeai` package is imported to access the AI model.
- **Configuring the API:** The API key is used to authenticate with the service.
- **Starting the Chat:** A chat session is initiated with the `start_chat()` method, and user input is processed in a loop.
- **Sending and Receiving Messages:** The chatbot generates responses based on the user's input and outputs them to the console.

Example

You: Hi there!

Chatbot: Hello! How can I assist you today?

You: Tell me a joke.

Chatbot: Why did the scarecrow win an award? Because he was outstanding in his field!

You: bye

Chatbot: Goodbye!