

Conversational UI Chatbot App with ChatGPT, LangChain and Chainlit

Instructor

Dipanjan Sarkar

AI Advisor at Analytics Vidhya

Google Developer Expert - ML & Cloud Champion Innovator

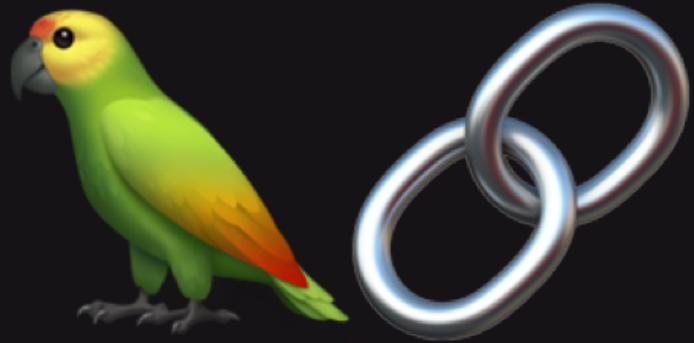
Published Author



Outline

- Key tools to build a UI-based Conversational Chatbot App
- UI-based Chatbot Architecture
- Access Deployed Apps in Colab through NGrok
- Authentication Keys for App
- Store ChatGPT and NGrok API Keys in YAML format

Key tools to build a UI-based Conversational Chatbot App



[LangChain](#) - A Python framework to build
LLM systems

Key tools to build a UI-based Conversational Chatbot App



LLMs like [Open AI ChatGPT](#)

Key tools to build a UI-based Conversational Chatbot App

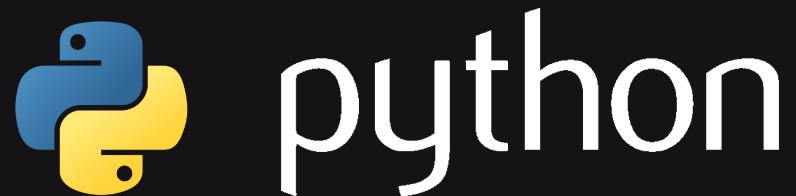


[Chainlit](#) - A Python framework to build conversational UI

Key tools to build a UI-based Conversational Chatbot App



Google Colab or a Python environment for running your apps

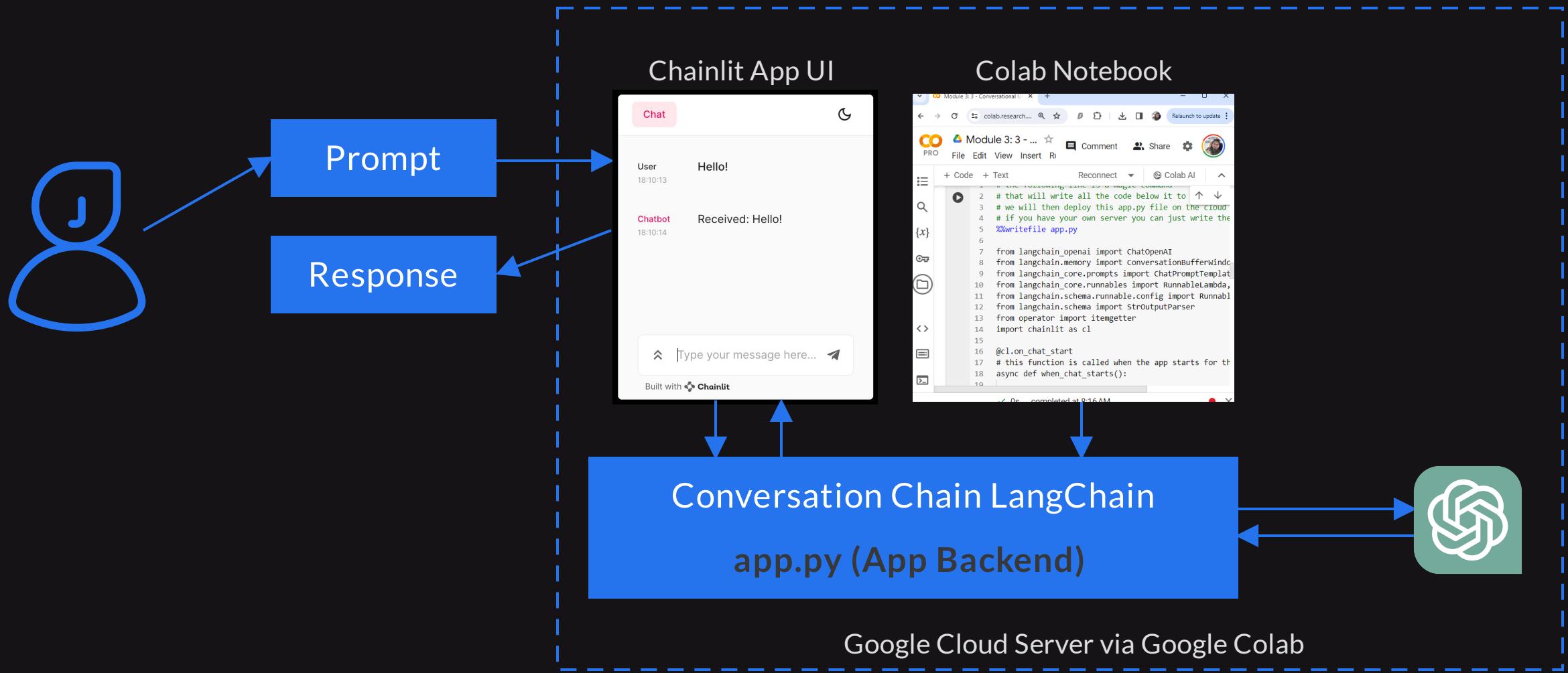


Key tools to build a UI-based Conversational Chatbot App

ngrok

[ngrok](#) to access deployed app publicly

UI-based Chatbot Architecture



Access Deployed Apps in Colab through NGrok

The image consists of two side-by-side screenshots. The left screenshot shows the ngrok login interface, which includes fields for Email (hello@example.com) and Password, and buttons for Log in, I forgot my password, Log in with GitHub, Log in with Google, and Log in with SSO. The right screenshot shows the 'Your Authtoken' page on the ngrok dashboard at <https://dashboard.ngrok.com/get-started/your-authtoken>. This page displays a personal auth token (1rnMGVDt...), which is highlighted with a black rectangle, and a 'Copy' button. A sidebar on the left of the dashboard shows navigation links for Getting Started, Cloud Edge, and Tunnels.

Get your NGrok Token at: <https://dashboard.ngrok.com/get-started/your-authtoken>

Access Deployed Apps in Colab through NGrok

- Google Colab runs on a server on Google Cloud but we can't access that
- Hence you can't view deployed apps directly from Google Colab
- We will deploy each UI-based app via Google Colab
- We will use NGrok Tunnel to access it from a public URL

Authentication Keys for App

- ChatGPT Open AI Key (or use Google Gemini or HuggingFace LLMs)
- NGrok API Key

Store ChatGPT and NGrok API Keys in YAML format

chatgpt_api_credentials.yml ×

```
1 openai_key : sk-i0SmpANG1avZYP1DBIt
```

ngrok_credentials.yml ×

```
1 ngrok_key : 1rnMGVDt6L57aU12JSqNVB  
2
```

- Store each key as key-value pairs as shown on the left side in text files
- Make sure the files have a [.yml](#) extension
- We will load these files when building apps to not expose keys publicly in the app code

Thank You
