

Introduction to Streamlit and Chainlit

Instructor

Dipanjan Sarkar

AI Advisor at Analytics Vidhya

Google Developer Expert - ML & Cloud Champion Innovator

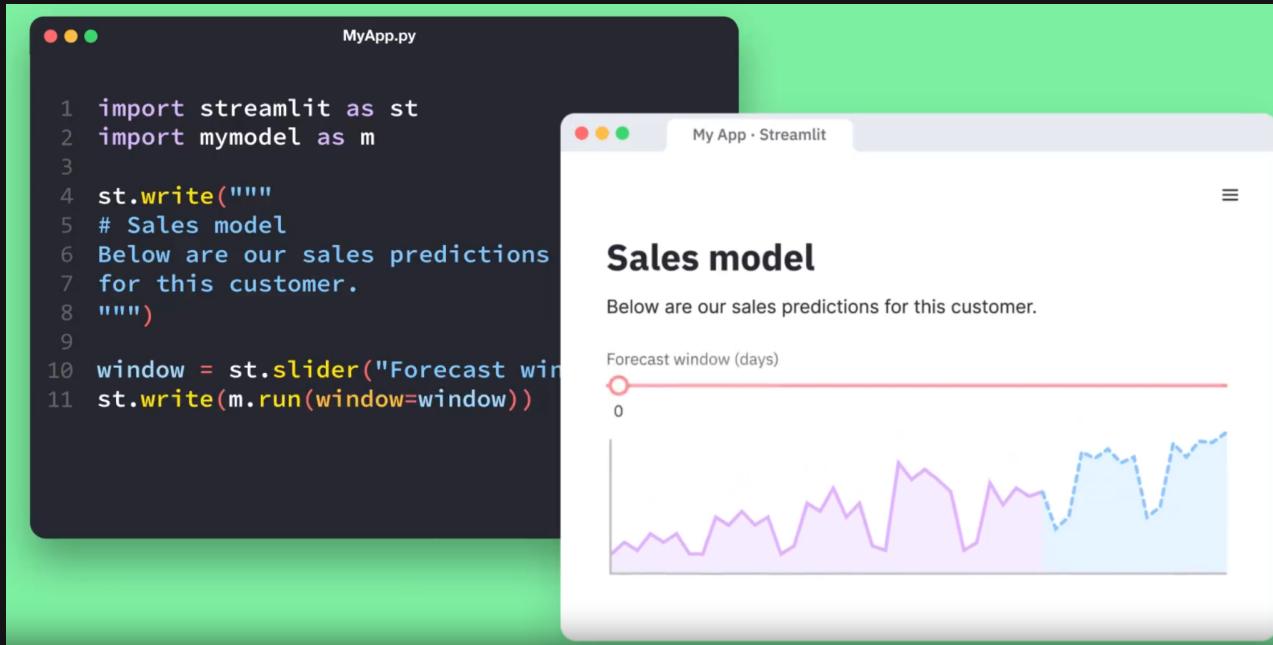
Published Author



Outline

- What is Streamlit
- What is Chainlit
- Access Deployed Apps in Colab through NGrok

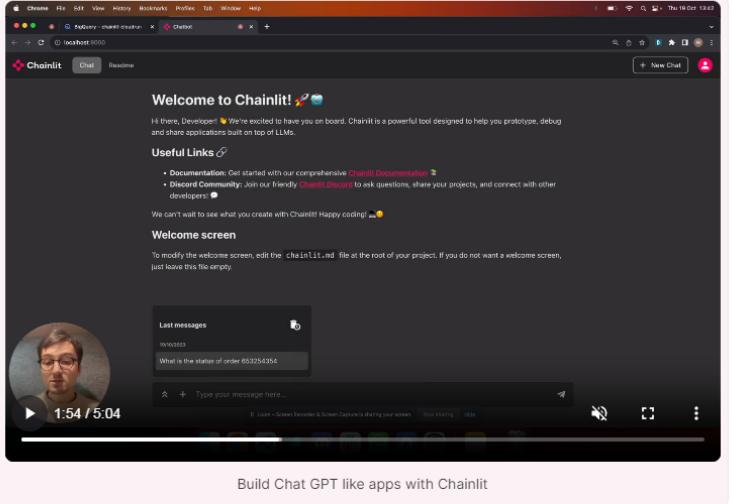
What is Streamlit



- It is open-source and turns Python scripts into shareable web Apps
- Just need to code in Python and no need to learn frontend languages
- Easy to create, deploy, and share LLM-powered apps

What is Chainlit

Chainlit is an open-source Python package that makes it incredibly fast to build Chat GPT like applications with your own business logic and data.



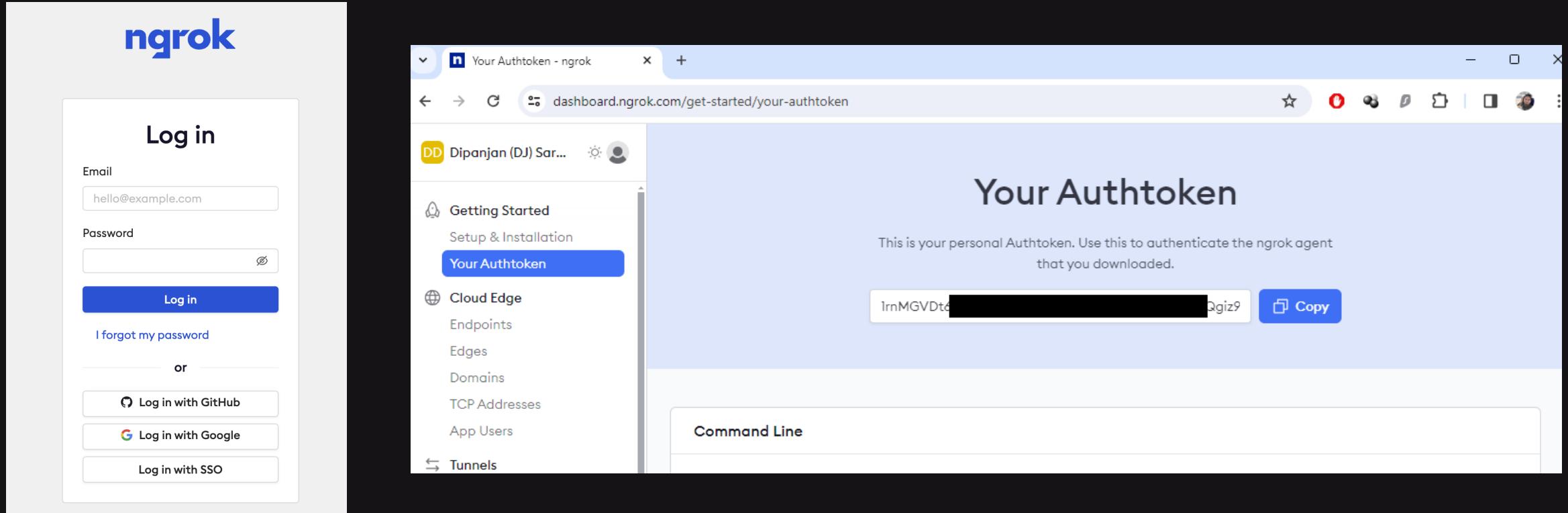
The screenshot shows a dark-themed web application window titled "Welcome to Chainlit! 🎉". It features a "Welcome screen" with a message to developers, useful links, and documentation. Below this is a "Last messages" section showing a recent conversation about an order status. At the bottom, there's a video player showing a timestamp of 1:54 / 5:04 and a "Type your message here..." input field. A footer bar at the bottom includes a "Logs" button, a "Screen Recorder & Screen Capture" indicator, and a "Data logging" button.

Key features

1. **Build fast:** Integrate seamlessly with an existing code base or start from scratch in minutes
2. **Data persistence:** Leverage user generated data + feedback.
3. **Visualize multi-steps reasoning:** Understand the intermediary steps that produced an output at a glance
4. **Iterate on prompts:** Deep dive into prompts in the Prompt Playground to understand where things went wrong and iterate

- It is an open-source Python framework similar to Streamlit
- Focuses on building production ready Conversational AI apps
- Code ChatGPT like user interfaces in pure Python easily

Get your NGrok Key for Accessing Deployed Apps on Colab



The image consists of two side-by-side screenshots. The left screenshot shows the ngrok login interface, which includes fields for Email (with 'hello@example.com' entered) and Password, along with links for 'I forgot my password', 'Log in with GitHub', 'Log in with Google', and 'Log in with SSO'. The right screenshot shows a browser window titled 'Your AuthToken - ngrok' at the URL 'dashboard.ngrok.com/get-started/your-authtoken'. The browser's sidebar lists 'Getting Started', 'Setup & Installation', 'Your Authtoken' (which is highlighted in blue), 'Cloud Edge', 'Endpoints', 'Edges', 'Domains', 'TCP Addresses', 'App Users', and 'Tunnels'. The main content area features the heading 'Your Authtoken' and a descriptive text: 'This is your personal Authtoken. Use this to authenticate the ngrok agent that you downloaded.' Below this is a text input field containing a long string of characters ('1rnMGVDt...' followed by several blacked-out characters) with a 'Copy' button next to it.

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

Thank You
