

Streamlit MultiChat

Chat with multiple LLMs from one App.

Press Space and Check how it's built →



Why Streamlit for a MultiChat App?

Streamlit can help to create a unified MultiChat app with Language Learning Models (LLMs)

-  **Unified Experience** - Select different LLM providers from one place, without switching between platforms.
-  **Multi-User Support** - Handle multiple users and conversations at once.
-  **Customizable** - Easily adapt the app to different learning methods and requirements.
-  **Web-Based** - Access your MultiChat app from anywhere, on any device.

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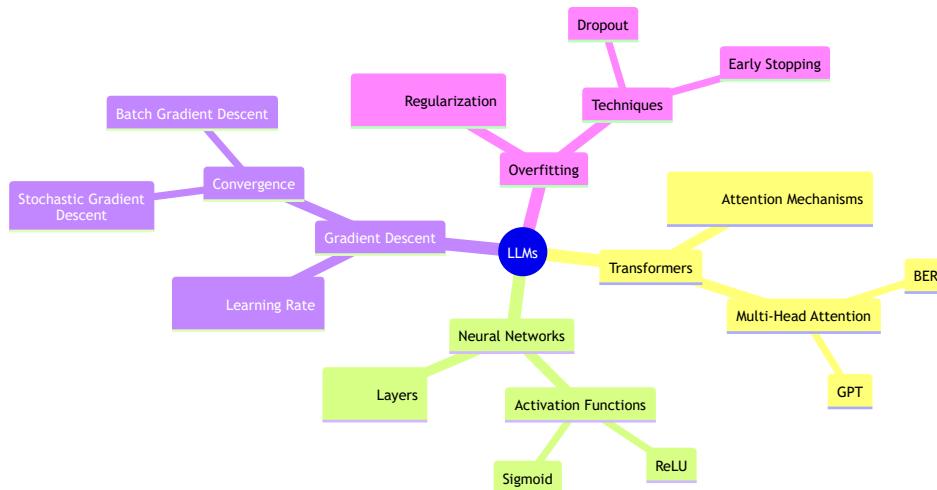
The Context of LLMs

Clarifying AI/ML/Neuronal Networks.

There is really Math intensive stuff going on here:

$$\theta = \theta - \alpha \cdot \nabla_{\theta} J(\theta),$$

But, we dont need to go into Math details. Just **keep in mind**:



What is Streamlit?

Streamlit is a fast, user-friendly tool to create custom web apps for machine learning and data science, offering the following features:

-  **Code-based** - Create web apps using Python scripts, focusing on data and models first.
-  **Customizable** - Easily design your app's layout and appearance.
-  **Developer Friendly** - Built for developers with features like hot-reloading and modular code.
-  **Interactive** - Easily add widgets like sliders, dropdowns, and buttons to interact with your data.
-  **Data-Ready** - Built-in support for displaying data frames, charts, and other visualizations.
-  **Fast Deployment** - One-click deployment to share your apps with the world.

Read more about [Why Streamlit?](#)

What's based on?

Three 3rd Party API's and Local LLMs with Ollama

Supported LLMs

OpenAI API

Most Popular Proprietary LLMs (ATM)

Anthropic API

The challenger of the Throne

Groq API

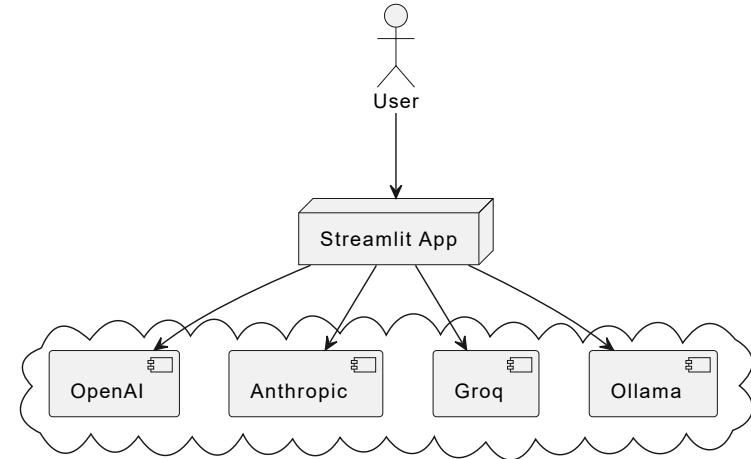
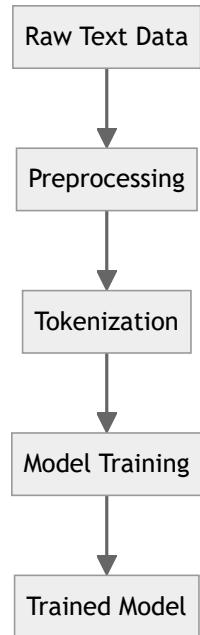
Fast Inference with Free Models

Ollama API

Also local LLMs!

The AI App Architecture

You can create diagrams / graphs from textual descriptions, directly in your Markdown.



[Learn More](#)

Code

No need to get scared, Streamlit makes it simple:

```
import streamlit as st

# Create a slider widget
slider_value = st.slider('Select a value:', 0, 10)

# Display the selected value
st.write(f'You selected {slider_value}')
```



How it Works

Powered by shiki-magic-move, Slidev supports animations across multiple code snippets.

Add multiple code blocks and wrap them with ````md magic-move` (four backticks) to enable the magic move. For example:

```
1 #step 1 - The code checks the API Keys
2 if 'OPENAI_API_KEY' in st.secrets and len(st.secrets['OPENAI_API_KEY']) > 30:
3     st.success('API key already provided!', icon='✅')
4     openai.api_key = st.secrets['OPENAI_API_KEY']
5 else:
6     openai.api_key = st.text_input('Enter OpenAI API token:', type='password')
7     if not (openai.api_key.startswith('sk-') and len(openai.api_key) > 30):
8         st.warning('Please, enter your credentials', icon='⚠️')
9     else:
10        st.success('Proceed with your Prompts!', icon='👉')
```

The App's Modularity

Whenever a **new models appears**, adding its just about adding it in the config:

```
model = st.selectbox(  
    "Select Model",  
    ("claude-3.5-sonnet-20240620", "claude-3-opus-20240229"  
)
```

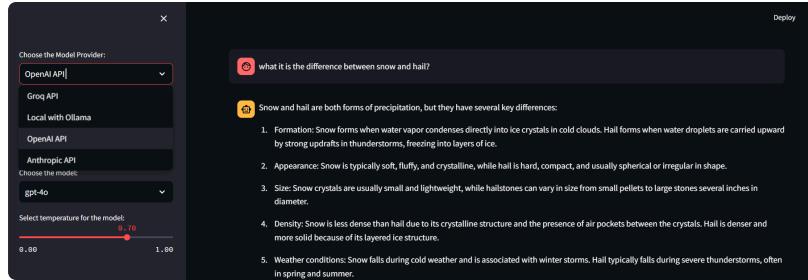
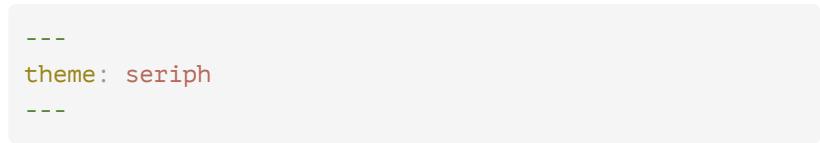
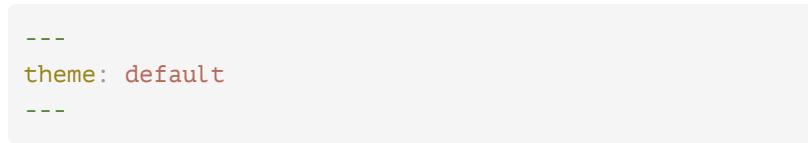
And we had very recent announcements...

And that's it, the app now allows to use the latest Anthropic Model

Themes

Slidev comes with powerful theming support.

Themes can provide styles, layouts, components, or even configurations for tools. Switching between themes by just **one edit** in your frontmatter:



Read more about [How to use a theme](#) and check out the [Awesome Themes Gallery](#).

How to use Streamlit MultiChat

This sounds interesting - How can I try the project?

To use it, you can use the Container Image that is ready at [ghcr](#):

```
podman pull ghcr.io/jalcocert/streamlit-multichat:latest
```

The Streamlit Multichat needs the following [artifacts](#) :

- For 3rd party providers, [Models API endpoints](#) you need to run the Ollama server first.
- To have the [local LLMs](#) with Ollama you need to run the Ollama server first.

Docker/Podman - Step by Step [Ollama Setup](#):

[Learn More](#)

Thanks for your Time

Q&A Session

[Documentation](#) · [GitHub](#) · [Showcase](#)

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```
npm init slidev
npm i -D playwright-chromium
slidev build --download
```