



Slack AI Assistant with Python & LangChain



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Here's a step-by-step guide to creating a Slack bot, installing it in a workspace, setting up a Python code with Flask, and using ngrok.

Interacting with AI agents via Slack provides a more natural way of communication and provides an integration with your team's workflow and allows for the integration of multiple bots for various tasks. This can improve efficiency and streamline communication, while also allowing the AI agents to become an integral part of your team.

Part 1 — Slack Setup

Step 1: Create a new Slack app

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- Go to <https://api.slack.com/apps> and sign in with your

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- Choose an existing Slack workspace or create a new one.
- Go to <https://api.slack.com/apps> and sign in with your Slack account.
- Click "Create New App" and provide an app name and select your workspace as the development workspace. Click "Create App".

Part 2 — Python Setup

Step 1: Set up your Python environment

- Install Python 3.6 or later (if you haven't already).
- Install the required packages: `slack-sdk`, `slack-bolt`, and

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- Install Python 3.6 or later (if you haven't already).
- Install the required packages: `slack-sdk`, `slack-bolt`, and `Flask`. You can do this using `pip`:

```
pip install slack-sdk slack-bolt Flask
```

In addition to the steps you provided, you can also create a

Part 3 — Server Setup (Local)

Step 1: Expose your local server using ngrok

- If you haven't installed ngrok, you can download it from <https://ngrok.com/download> or, on macOS, install it via

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- If you haven't installed ngrok, you can download it from <https://ngrok.com/download> or, on macOS, install it via Homebrew by running: `brew install ngrok`
- In a new terminal (macOS/Linux) or Command Prompt (Windows), start ngrok by running the following command: `ngrok http 5000`

• Note the `HTTP URL` provided by ngrok (e.g., `https://`

Part 4 — Add Custom Functions

Step 1: Create a function to draft emails

- Create a new file called `functions.py` and insert the following code:

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- Create a new file called `functions.py` and insert the following code:

```
from langchain.chat_models import ChatOpenAI
from langchain.chains import LLMChain
from dotenv import find_dotenv, load_dotenv
from langchain.prompts.chat import (
```

Troubleshooting

Port 5000 is in use by another program. Either identify and stop that program, or start the server with a different port.

To close a port on a Mac, you need to identify the program or

Port 5000 is in use by another program. Either identify and stop that program, or start the server with a different port.

To close a port on a Mac, you need to identify the program or process that is using the port and then stop that program or process. Here are the steps you can follow:

1. Open the Terminal application on your Mac.
2. Run the following command to list all open ports and the

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