Dopest Slack Content Bot

1. Project Setup and Preparation

- Decided Bot Functionality:
  The goal was to automate keyword grouping and post idea generation based on CSV uploads in Slack channels.
- Created Project Folder:
  A dedicated folder named Slackbot was used to organize all source files and code.
- Installed Requirements:
  Python (3.6 or higher) was installed. Slack Bolt and Flask libraries were added

2. Slack App and API Configuration

- Created Slack App:
  Used the Slack API dashboard to create a new app from scratch.
- Set Bot Permissions:
  Added OAuth scopes such as files:read, chat:write, and others needed for event listening and messaging.
- Enabled Event Subscriptions:
  Turned on event listening, specifically for file_shared events.
- Configured Request URL:
  Placeholder set until ngrok tunnel was created.

3. Developing the Bot

- Wrote the Flask Server:
  Flask app routed POST events to /slack/events to handle Slack challenge verification and file events.
- Added Event Handlers:
  Python code was written to:
  - Listen for file uploads (file_shared)
  - Read and process CSV files (using pandas or built-in methods)
  - Group keywords, generate sample outlines and post ideas
  - Format auto-responses and send messages back to the channel

4. Exposing Local Bot with Ngrok

- Downloaded Ngrok:
  Installed ngrok and unzipped to a working directory.

- Ran Ngrok:
  Used ngrok http 3000 to forward local server to a public HTTPS address.
- Copied Ngrok URL:
  Added /slack/events to the ngrok forwarding URL, and updated Slack app Request URL.

5. Verification and Testing

- Verified Request URL:
  Slack successfully sent a challenge event and verified the endpoint.
- Invited Bot to Channel:
  Invited bot in the relevant channel.
- Uploaded Sample CSV:
  Created and uploaded a CSV of test keywords in Excel or Notepad.

6. Final Bot Workflow and Output

- Bot Automatically Responds:
  Upon CSV upload, the bot parses keywords and replies with:
    - Grouped outlines (introduction/key points/conclusion per keyword)
    - Unique post ideas for each keyword
- Confirmed End-to-End Flow:
  The channel shows auto-generated response messages from the bot for each CSV upload.

7. Troubleshooting and Support

- Checked Flask/ngrok terminals for errors if events didn't trigger.
- Re-invited bot if Slack reported "member name" errors.
- Ensured .env secrets and Slack subscriptions matched running URLs.

8. Deliverables

- Hosted Endpoint: https://unsportively-unscissored-debbie.ngrok-free.dev
  https://unsportively-unscissored-debbie.ngrok-free.dev/slack/events

- GitHub Repo
- [Documentation](#)