**Task Automation Bot**

**Overview**

This Python-based Task Automation Bot provides a simple command-line interface to automate everyday productivity tasks such as managing a to-do list, fetching news headlines, checking the current time, and retrieving weather information for a specified city. It showcases skills in Python programming, API integration, and user interaction design.

**Features**

* Add tasks to your to-do list with simple commands
* Display your current to-do list
* Fetch sample news headlines
* Get the current local time
* Retrieve current weather information for a specified city
* Intelligent greetings based on the time of day
* User-friendly command-line interface with continuous interaction until exit

**Technologies Used**

* Python 3.x
* Standard libraries: datetime, json, time
* External libraries: requests for API calls (weather data)

**How to Run**

1. Install required packages:

bash

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pip install requests

1. Run the Python script:

bash

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python task\_automation\_bot.py

1. Use the following commands during the interactive session:
   * add task <task description> — Adds a task to your to-do list
   * show tasks or to-do — Displays all your tasks
   * news — Shows sample news headlines
   * time — Shows current time
   * weather — Fetches the current weather for London (default)
   * exit or quit — Ends the session

**Example Interaction**

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Type 'exit' to stop.

Good afternoon!

You: add task finish report

Bot: Task 'finish report' added.

You: show tasks

Bot: Here are your tasks:

- finish report

You: news

Bot: Today's top news:

- OpenAI releases new AI model.

- Python remains the most popular programming language.

- Global tech salaries are rising in 2025.

You: time

Bot: The current time is 14:30:45

You: weather

Bot: The current weather in London is light rain with a temperature of 12°C.

You: exit

Bot: Goodbye! Automation session ended.

**Customization**

You can replace the default city for weather by changing the WEATHER\_CITY variable in the script.  
To use real-time news, you can integrate a news API by modifying the get\_news() function.

**About Me**

I am a mid-level software developer with over 3 years of experience specializing in Python development, automation, and AI-driven solutions. I have a strong background in designing and implementing practical applications that solve real-world problems efficiently.

This project demonstrates my hands-on skills in building interactive command-line tools, integrating external APIs, and applying software engineering best practices. I continuously seek to improve my craft by learning new technologies and delivering clean, maintainable code.

I am passionate about leveraging automation and AI to enhance productivity and user experiences.