

Nimbus v1.0 : Dark Matter

User Manual

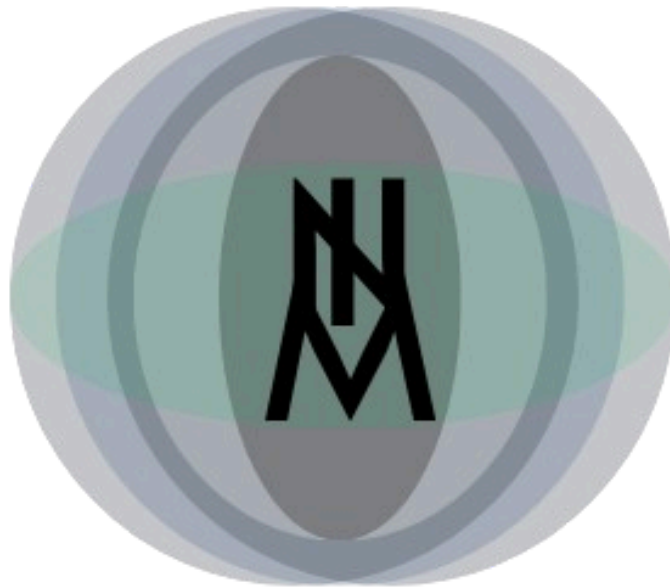


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1. Introduction

NimbusAI is a fine-tuned AI chatbot that provides intelligent responses using a custom-trained model. It leverages **Wiki API** and **NASA API** instead of GPT-based APIs to fetch real-time information. The chatbot is deployed on **AWS EC2**, making it accessible via the web.

Key Features:

- Intelligent conversations with a fine-tuned model
 - Real-time data fetching from Wikipedia and NASA APIs
 - Fully responsive UI with dark mode
 - Chat history and session management
 - AI-generated responses with a copy button
 - Secure deployment on AWS
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2. System Requirements

To run NimbusAI, ensure your system meets the following requirements:

- **Operating System:** Windows, macOS, Linux
 - **RAM:** Minimum 8GB (Recommended: 16GB)
 - **Processor:** Intel i5 or higher / AMD equivalent
 - **Storage:** Minimum 2GB free disk space
 - **Internet Connection:** Required for API calls
 - **Dependencies:**
 - Python 3.8+
 - Flask
 - Git LFS (for handling large AI model files)
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3. Installation Guide

For Local Setup:

Clone the Repository:

```
git clone https://github.com/yourusername/NimbusAI.git  
cd NimbusAI
```

1.

Install Dependencies:

```
pip install -r requirements.txt
```

2.

Run the Flask Server:

```
python app.py
```

3.

4. Access NimbusAI:

- Open <http://127.0.0.1:5000> in your browser.

For AWS Deployment:

SSH into your EC2 Instance:

```
ssh -i your-key.pem ec2-user@your-aws-ip
```

1.

Clone the Repository & Install Dependencies:

```
git clone https://github.com/yourusername/NimbusAI.git  
cd NimbusAI
```

```
pip install -r requirements.txt
```

2.

Run the Server on AWS:

```
nohup python app.py &
```

3.

4. **Access via Public IP:**

- Open <http://your-aws-ip:5000> in a web browser.
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4. Getting Started

1. **Open NimbusAI:** Navigate to the homepage.
 2. **Click "Get Started":** This redirects to the chat interface.
 3. **Start a New Chat:** Click the "New Chat" button.
 4. **Type Your Question:** Enter your query in the chatbox.
 5. **Receive AI Responses:** View the AI's response and use the copy button if needed.
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5. User Interface Overview

- **Home Page:** Displays a brief introduction with a "Get Started" button.
 - **Chat Page:** The main interaction area where users can converse with NimbusAI.
 - **Sidebar:**
 - Chat History
 - Theme Toggle (Dark/Light Mode)
 - Model Selection
 - **Chat Input Box:** For sending messages to the AI.
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6. Features & Functionalities

1. **Chat with AI:** Enter questions and get intelligent responses.
 2. **Dark Mode:** Switch between light and dark themes.
 3. **Chat History:** View and manage previous conversations.
 4. **Copy Button:** Copy AI-generated responses with one click.
 5. **Mobile-Friendly UI:** Fully responsive for small screens.
 6. **Secure AWS Hosting:** Reliable cloud-based deployment.
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7. How to Use NimbusAI

Starting a Conversation

1. Open NimbusAI.
2. Click "New Chat" in the sidebar.
3. Type your message in the chatbox.
4. Press "Enter" or click the **send** button.

Using the Copy Feature

- Click the **copy** icon below an AI response to copy it to your clipboard.

Changing Modes

- Click the **Moon/Sun** icon to switch between Dark and Light modes.

Accessing Chat History

- Your previous conversations appear in the sidebar.
 - Click on a conversation to reopen it.
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8. Advanced Settings

- **Fine-Tuned Model:** Custom AI model for improved responses.
 - **API Integrations:**
 - Wikipedia API
 - NASA API
 - **GitHub LFS:** Used for handling large model files.
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9. Troubleshooting

Issue	Solution
Website not loading	Check if the Flask server is running.
Chat responses are slow	Verify API connectivity.
AWS deployment not working	Ensure required ports are open.
"Command not found" error	Install missing dependencies.

10. Frequently Asked Questions (FAQs)

1. Does NimbusAI use OpenAI's GPT?

No, NimbusAI does **not** use OpenAI's GPT APIs. It relies on a **fine-tuned AI model** and APIs like Wikipedia and NASA for real-time information.

2. Can I run NimbusAI offline?

No, internet access is required for API calls and cloud deployment.

3. How do I update NimbusAI?

Run the following commands:

```
cd NimbusAI
```

```
git pull origin main  
pip install -r requirements.txt
```

4. How can I reset chat history?

Delete the local storage files or click "**Clear Chat**" from the UI.

11. Contact & Support

- Developer Website: [Click here for website](#)
 - GitHub Repository: [Click here for github repo](#)
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 **Enjoy Using NimbusAI!**