📖 User Usage Guide - News Article Chatbot

A Retrieval-Augmented Generation (RAG) based chatbot that scrapes news articles from major Bangladeshi news outlets, processes them with advanced text chunking techniques, and provides intelligent responses to user queries about current events using local LLM inference.

📑 Table of Contents

Getting Started

What is this chatbot?

The Bangladesh News RAG Chatbot helps you explore and analyze news from major Bangladeshi outlets:

- **Prothom Alo**
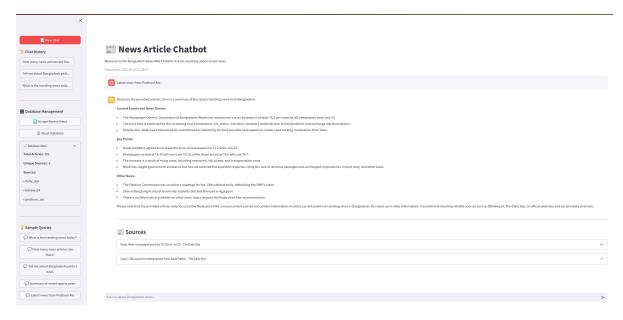- **The Daily Star**
- **BDNews24**

Ask questions in natural language and get AI-powered responses based on the latest news articles.

Before you start:

- ✅ Application is running in your browser
- ✅ You have internet connection
- ✅ Modern web browser (Chrome, Firefox, Safari, Edge)

Interface Overview

Main Layout

Screenshot: Main interface of the News Article Chatbot

Sidebar Buttons

Button	What it does	When to use it
🔄 Scrape Recent News	Gets latest articles from news sites	First time using, or daily for fresh news
📝 New Chat	Start a new conversation	When changing topics completely
📈 Database Stats	Shows how many articles you have	Check if you have enough news data
🗑️ Reset Database	Deletes all articles (ask for confirmation)	If you want to start fresh

Setting Up Your First Session

Step 1: Get News Articles

1. **Click "🔄 Scrape Recent News"**
2. **Wait for it to finish** (usually 2-5 minutes)

   You'll see progress messages like:

   ```
   Scraping news articles...
   This may take a few minutes.
   ✅ Scraped 101 articles!
   Indexing articles...
   ```

3. **Check your data** - Look at "📈 Database Stats":

```
📊 Database Statistics
• Total Articles: 101
• Unique Sources: 3
• Sources:
    • daily_star
    • prothom_alo
    • bdnews24
```

Step 2: Test It Out

Try asking: **"How many articles do you have?"**

If you get a good response with numbers, you're ready to go! 🎉

Query Types and Examples

1. Article Counts

Find out what data is available

Ask things like:

```
"How many articles do you have?"
"How many sports news articles?"
"Count of Daily Star articles"
"How many articles about cricket?"
```

You'll get responses like:

```
I have 447 article chunks from 3 news sources in the database.
Available Sources: • The Daily Star • Prothom Alo • BDNews24
```

Quick Tips

✅ Good Questions:

- Use simple, clear language
- Ask one main thing at a time
- Include relevant keywords
- Be specific about topics you want

❌ Avoid:

- Very long, complicated questions
- Multiple unrelated topics in one question
- Very technical jargon

🔄 If You Don't Get Good Results:

1. Try simpler words

2. Check if you have enough articles (📈 Database Stats)

3. Scrape recent news (🔄 Scrape Recent News)

4. Start a new chat (📝 New Chat)

That's it! You're ready to explore recent news with AI assistance. 🚀

Need fresh news? Remember to click "🔄 Scrape Recent News" daily for the latest articles.