

AI Text Utility - Groq: Summarizer & Keyword Extractor

GitHub Repo Link: [AI Text Summarizer - Keyword Extractor](#)

Deployed Streamlit App: <https://ai-text-tool.streamlit.app/>

This project is an AI-powered web application designed to help users summarize text, extract relevant keywords, and detect the intent behind a given text. The app supports three input modes: plain text, PDF files, and article URLs. It uses Groq's AI API to process the input and provide insightful results.

How It Works

Users can interact with the app in three ways:

1. **Text Input:** Users can directly input their text into the app.
2. **PDF Upload:** Users can upload PDF files, and the app uses pdfplumber to extract the text.
3. **Article URL:** Users can input a URL, and the app fetches and parses the content from the article.

Once the text is extracted, users can select from four available tasks:

1. **Summarization:** Condenses the input text into a concise summary.
2. **Keyword Extraction:** Extracts the most relevant keywords from the text.
3. **Text Intent Detection:** Identifies the main purpose or intent behind the text.
4. **Dual Output:** Provides both a summary and a list of keywords.


Model/API

The app uses **Groq's AI API**, specifically the **llama-3.3-70b-versatile** model, to analyze and process the input text. The API generates responses based on the user's selected task, providing accurate and meaningful results.

Scope for Improvement

- **Multi-language Support:** Introduce support for multiple languages to cater to a broader user base.
 - **Advanced Customization:** Allow users to customize the length of summaries or specify the number of keywords to be extracted.
 - **Better Handling of Large Files:** Improve the app's ability to handle larger PDF files and more complex web page structures.
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Screenshots:



AI Text Utility using Groq


Choose Input Source

☒ Text ☐ PDF ☐ Article URL

Enter your text here:

Please provide some input to continue.

Using Text upload:



AI Text Utility using Groq

Choose Input Source

☒ Text ☐ PDF ☐ Article URL

Enter your text here:

In a quiet village nestled between misty hills, there lived an old clockmaker named Elias. His shop was filled with hundreds of ticking timepieces, each handcrafted with care, from grand wooden grandfather clocks to tiny pocket watches no bigger than a coin. But Elias was not just a maker of clocks—he was a keeper of time in ways no one else truly understood.

One autumn morning, a boy named Finn appeared at the shop's door, shivering and barefoot. "I can work," he said, eyes wide with hunger and hope. Elias, who had grown weary of his solitary existence, took him in—not just as a helper, but as an apprentice.

Day by day, Finn learned the art of gears, springs, and balance wheels. Elias taught him how to listen—not just with ears, but with the heart. "Every clock has a soul," he

Choose Task


☒ Summarization ☐ Keyword Extraction ☐ Text Intent Detection ☐ Dual Output

Run

Summary

In a quiet village, an old clockmaker named Elias took in a young apprentice named Finn and taught him the art of clockmaking and the secrets of time. Elias passed on a special clock, known as a Timekeeper, to Finn before his death, which had the power to bend time for a worthy heart. Years later, Finn used the Timekeeper to save a lifeless kitten, freezing time and giving the kitten a second chance, and in that moment, he understood the true value of time.


Using pdf upload:

 **AI Text Utility using Groq**


Choose Input Source

☐ Text ☒ PDF ☐ Article URL

Upload PDF

 Drag and drop file here
Limit 200MB per file • PDF


Browse files

 Hari Prasad M avawatz cover letter.pdf 64.4KB ×

Choose Task


☐ Summarization ☒ Keyword Extraction ☐ Text Intent Detection ☐ Dual Output

Run

 **Keywords**

AI/ML, AvaWatz, Machine Learning, Artificial Intelligence, Data Science

Using Article Url:

 **AI Text Utility using Groq**

Choose Input Source

☐ Text ☐ PDF ☒ Article URL



Paste article URL:

<https://www.thehindu.com/news/national/russian-missile-strikes-warehouse-of-indian-pharma-firm-in-ukraine-says-kyivs-mission-in-delhi/article69444082.ece>

Choose Task

☐ Summarization ☐ Keyword Extraction ☒ Text Intent Detection ☐ Dual Output

Run

 **Text Intent** 

The main intent of this text is to report on a Russian missile strike that hit a warehouse of an Indian pharmaceutical company in Ukraine.



AI Text Utility using Groq

Choose Input Source

☐ Text ☐ PDF ☒ Article URL

Paste article URL:

<https://www.thehindu.com/news/national/russian-missile-strikes-warehouse-of-indian-pharma-firm-in-ukraine-says-kyivs-mission-in-delhi/article69444082.ece>

Choose Task

☐ Summarization ☐ Keyword Extraction ☐ Text Intent Detection ☒ Dual Output

Run



Summary [↗](#)

A Russian missile struck a warehouse of an Indian pharmaceutical company, Kusum, in Ukraine on April 12, 2025, according to the Ukrainian Embassy in India. The embassy alleged that Russia is deliberately targeting Indian businesses in Ukraine, despite claiming "special friendship" with India. The attack is part of Russia's ongoing offensive against Ukraine, which has seen numerous strikes and ceasefire proposals in recent weeks.



Keywords

Russia, Ukraine, India, Missile, Pharmaceutical