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WHAT IS A NEWS SUMMARIZER?

A NEWS SUMMARIZER IS A TOOL OR SYSTEM THAT AUTOMATICALLY SHORTENS NEWS ARTICLES BY EXTRACTING THE MAIN POINTS OR REWRITING THEM IN A MORE CONCISE FORM.



WHAT IS IT'S GOAL?

ITS GOAL IS TO HELP READERS QUICKLY UNDERSTAND THE KEY INFORMATION WITHOUT READING THE FULL ARTICLE AND TO CONDENSE LONG NEWS ARTICLES INTO SHORT, RELEVANT SUMMARIES USING AL.



WE BUILT AN AI NEWS SUMMARIZER TO HELP USERS GET QUICK, RELEVANT UPDATES WITHOUT READING FULL ARTICLES. USING NEWSAPI, WE FETCH THE LATEST NEWS BY TOPIC. THEN, WE USE HUGGING FACE'S BART MODEL TO GENERATE CLEAN, ABSTRACTIVE SUMMARIES. THE WHOLE SYSTEM RUNS THROUGH A SIMPLE TKINTER GUI, COMBINING EASE OF USE WITH REAL-TIME RESULTS. IT'S FAST, LIGHTWEIGHT, AND BUILT ENTIRELY IN PYTHON.

IEEE SILLES



Used to fetch news articles by topic using the NewsAPI. Handles querying, sorting, and filtering articles.



TRANSFORMERS:

Powers the Al summarizer with the facebook/bart-large-cnn model. Handles abstractive summarization using pre-trained NLP models.



TKINTER:

Python's built-in GUI library.

Used to build the desktop interface - input box, buttons, and output display.



SCROLLEDTEXT FROM TKINTER: Provides a scrollable text area for displaying multiple news summaries cleanly.

WHEN WE RUN THE CODE, WE ARE DIRECTED

TO A NEW WINDOW, WHERE WE CAN ENTER

THE TOPIC OF THE NEWS WE WANT TO KNOW!

CLICK ON THE "FETCH & SUMMARIZE"
BUTTON.

THE SUMMARIZED NEWS OF 5 ARTICLES

Al News Summarizer Enter Topic: Ukraine Fetch & Summarize News 1 Summary: Eutelsat has been providing Ukraine with much-needed internet access for almost a year with the help of the German government. E News 2 Summary: Elon Musk said a "massive cyberattack" disrupted X on Monday. Security experts say that's not how it works. News 3 Summary: Ruben Rubio: 'Ball now in Russia's court' on Ukraine ceasefire. Rubio spoke to reporters alongside National Security adviser Mike Waltz News 4 Summary: Russia's deputy foreign minister says Ukraine must remain neutral in any peace deal. Peace deal must bar Ukraine from Nato, Russian official says. News 5 Summary: Prime Minister is co-hosting a summit of the "coalition of the willing" on

Ukraine in Paris. Starmer accuses Putin

