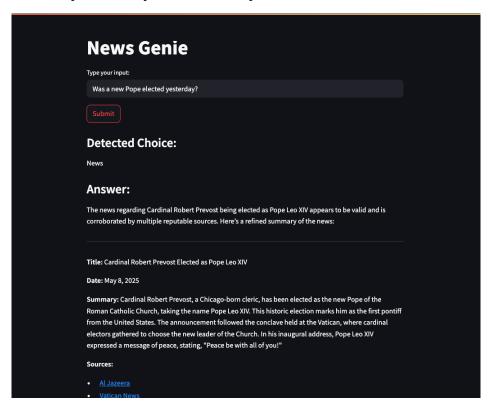# NewsGenie

An AI-Powered News and Information Assistant

NewsGenie is your AI-powered personal information and news assistant. Designed to help you stay informed in today's fast-moving world, NewsGenie allows you to:

- **Ask general knowledge questions** and receive clear, concise answers from trusted sources.
- **Verify the credibility of news articles**, detecting misinformation or bias using advanced AI and fact-checking tools.
- **Summarize complex news stories** into easy-to-digest highlights.
- **Track trending topics** across multiple media outlets, curated to your interests.
- **Engage in natural conversation** with an intelligent assistant that adapts to your needs.

Whether you're a casual news reader or a deep researcher, NewsGenie empowers you to make sense of the headlines—accurately, efficiently, and effortlessly.

Features and Workflow

1. The user writes a question inside the "Type your input:" box

2. NewsGenie detects the choice and decides whether it is news or informational

   1. For example:

      1. "What is the capital of France" will be detected as an informational query

      2. "Was a new Pope elected yesterday?" will instead be detected as a news query

3. If the query is classified as informational, NewsGenie answers the question with a direct ChatBot call (the app uses gpt-4o-mini)

4. If the query is classified as news:

   1. NewsGenie calls a search API to surf the web for an answer

   2. The output is validate by a subsequent ChatBot call that checks the validity against fake news and then refines and summarizes the answer

Installation Instructions

1. Create conda environment

   1. conda create -n news-genie-env python=3.10

   2. conda activate news-genie-env

2. Install requirements

   1. pip install -r requirements.txt

3. Add Open AI key to .env file

   1. echo "OPENAI_API_KEY=your-openai-key" >> .env

4. Add Serper API key to .env file

   1. echo "SERPER_API_KEY=your-serper-api-key" >> .env

5. Launch application:

   1. streamlit run app.py