

# **AI Video Generation Tool – Report**

(<https://github.com/rahulogoel/AI-News-Video-Generator>)

## **Objective**

Create an AI based application or tool which generates videos while scrapping trending news articles.

## **Tools & Technologies Used**

- NewsApi = For scraping trending news articles
- Google Gemini = For generating short voiceover-style scripts
- Python = For scripting and automating the pipeline
- Lumen5 = Free AI video tools to turn scripts into engaging videos

## **Pipeline Overview**

### 1) Trending News Collection

- Used to fetch top trending headlines from the website worldwide.
- Fetched articles at the beginning to demonstrate the pipeline using the NewsApi from <https://newsapi.org/> website which provides 100 free requests per day without the premium plan.

### 2) Script Generation

- Used Google Gemini 2.0 Flash API to generate a 30-60 second news segment script for each article.
- Prompts were structured to encourage a professional yet conversational tone.

### 3. Video Input Preparation

- Generated .txt files for each article containing the script
- Suggested image prompts
- These were used as inputs to Lumen5 to produce videos.

### 4. Video Creation

- Uploaded the script and matched suggestions using free Lumen5 GenAI video tool.

- Adjusted the pacing and layout to fit a 60-second format.
- For demo purpose, I generated 2 videos of sizes 16:9 (laptop) and 9:16 (phone).

### **Generated Videos =**

[https://github.com/rahulogoel/Al-News-Video-Generator/tree/main/generated\\_video](https://github.com/rahulogoel/Al-News-Video-Generator/tree/main/generated_video)

**Source code** - <https://github.com/rahulogoel/Al-News-Video-Generator>

### **TODOS / Future Improvements**

- Add text-to-speech for narration
- Add Virtual News Anchor for reading news
- Increase video engagement features and accuracy / quality of news
- Fully automate video rendering (using MoviePy or GenAI APIs like RunwayML).