**● Outcome:** A summarization model capable of generating concise summaries from long texts.

The developed summarization system was tested on real-world news content. A sample article related to a **global cybersecurity breach** was used to evaluate the performance of both extractive and abstractive approaches.

* **Extractive Summary Evaluation:**  
  The extractive model successfully highlighted the most important sentences from the article. While the summary was factual and retained key points, it sometimes lacked natural flow between sentences, as it simply selected portions from the original text.
* **Abstractive Summary Evaluation:**  
  The abstractive model, implemented using HuggingFace's pre-trained transformers (such as BART or GPT), rephrased the content more naturally. It generated a human-like summary with better sentence transitions and clarity, while still preserving the core meaning of the original article.
* **Coherence Assessment:**  
  Both summaries were reviewed manually. The abstractive summary was more **coherent**, **fluent**, and **concise**, making it better suited for real-world use like news apps, content previews, or executive summaries.
* **Conclusion:**  
  The model demonstrates strong performance in summarizing lengthy articles. Abstractive summarization is especially effective for delivering clean, easy-to-understand outputs. This fulfills the objective of building a summarization system that can be applied to real-world textual data with reliable quality.