

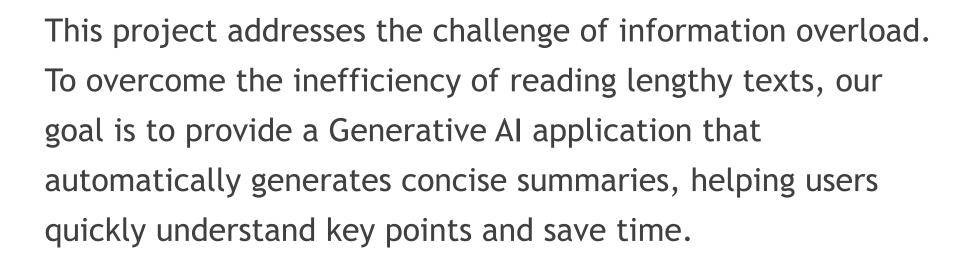
### Project Title:

Generative AI Text Summarization Using IBM Watsonx

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### PROBLEM STATEMENT



## **Project Description**

This project demonstrates a powerful text summarization tool built on the IBM Watsonx.ai platform.

The application allows a user to input any lengthy piece of text. It then communicates with a state-of-the-art Large Language Model (LLM) hosted on Watsonx. Through a technique called prompt engineering, we instruct the AI to read, understand, and distill the core concepts of the input text.

Finally, the model generates a brand new, concise summary that accurately reflects the original document's key messages. The process is fast, automated, and designed to produce high-quality, human-like text.

#### WHO ARE THE END USERS?

This tool is for anyone who needs to process large volumes of text quickly and efficiently.

- Students & Researchers: To quickly screen academic papers and articles for relevance, speeding up literature reviews.
- Business Analysts & Executives: To summarize dense market reports, financial documents, and long email chains to make informed decisions faster.
- Journalists & Content Creators: To condense press releases, interviews, and source materials into key takeaways for their stories or content.

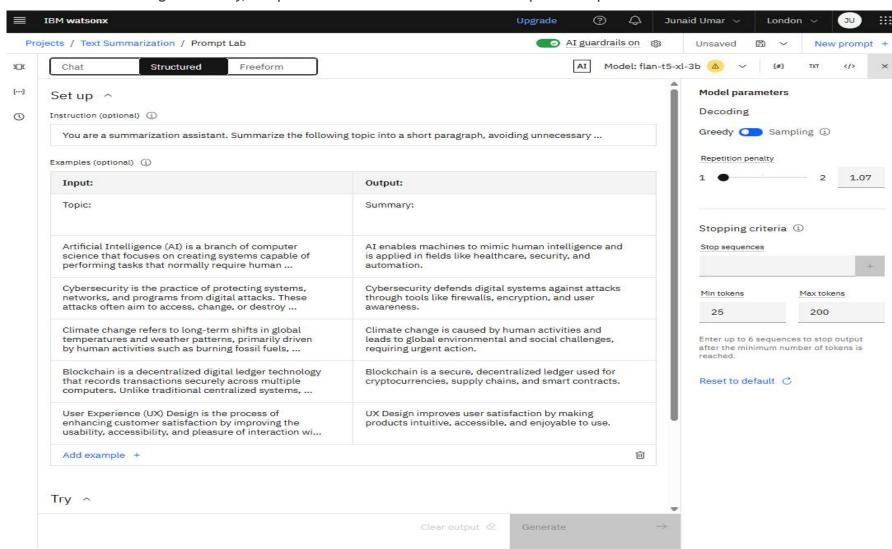
## Technology Used

Our summarizer is powered by a modern, cloud-based technology stack.

- Core AI Platform: IBM Watsonx.ai, a next-generation enterprise studio for building, managing, and deploying AI models.
- Foundation Model: Google Flan-T5-XL-3B and llama-3-3-70b-instruct accessed via Watsonx. These are pre-trained models capable of understanding and generating natural language.

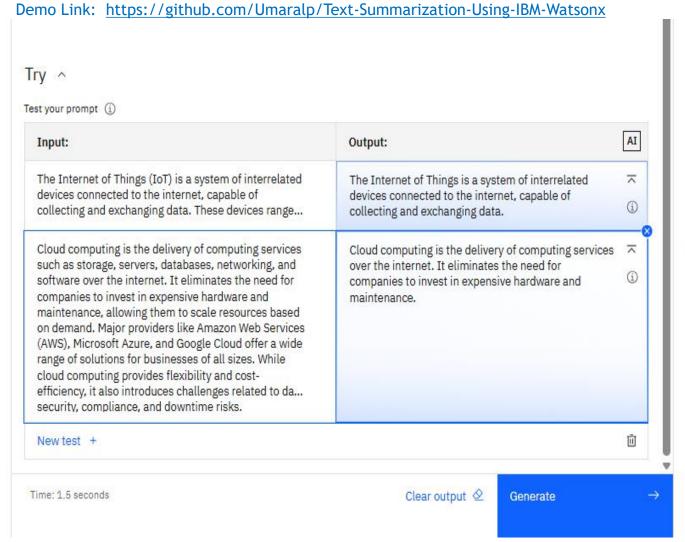
### RESULTS

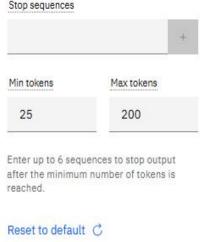
To achieve high accuracy, we provided the model with five examples of topics and their desired summaries



### **RESULTS**

The model successfully generated high-quality summaries for new, unseen topics. Here is a specific example from our tests.





# Thank you