## **Documentation: Wikipedia Article Summary Generator** **Problem addressed**

Many people want to quickly understand the main ideas of a large Wikipedia article without reading the entire page. This project solves that problem by creating a simple Python tool that: - Takes a topic name from the user - Fetches the Wikipedia article about that topic - Summarizes it into 3–5 key points or paragraphs - (Bonus) Reads the summary aloud

**Tools and libraries used**

* wikipedia – to fetch article content from Wikipedia
* sumy – for text summarization using LexRank
* pyttsx3 – for converting text to speech (voice output)
* textwrap – to format text neatly in the terminal
* Python – as the programming language

**Short explanation of the solution**

The tool works step by step: 1. Asks the user to enter a topic (e.g., “Cloud Computing”) 2. Uses the wikipedia library to download the full article text 3. Uses sumy to summarize the article into a few key points 4. Displays the summary neatly in the terminal (using textwrap) 5. Saves the summary to a text file named topic\_summary.txt 6. Uses pyttsx3 to read the summary aloud so users can listen

This project helps users save time by quickly getting the essence of long articles and makes it more accessible by adding voice output.

**Conclusion**

The Wikipedia Article Summary Generator is a practical Python project that combines API use, text summarization, and speech synthesis. It makes it easy for users to quickly understand any topic by reading or listening to short, clear summaries of long articles.