MEENAKSHI SUNDARARAJAN ENGINEERING COLLEGE
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Department of Computer Science and Engineering
Mini-Project Abstract – NM1009 - Generative AI for Engineering

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Project Title   :   **WIKI CHATBOT USING CNN**

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ABSTRACT:-

The provided Python code defines a class named Wiki Chatbot, which implements a simple chatbot capable of interacting with users, retrieving information from Wikipedia based on user input, and providing responses.

The chatbot utilizes techniques such as web scraping (using Beautiful Soup), text preprocessing (removing punctuation, tokenization, stop word removal, and lemmatization), and cosine similarity scoring to generate responses based on user queries. Key functionalities include:

- Initializing chat with a greeting message and instructions.
- Receiving user input, with options to end the conversation or request more information.
- Scraping Wikipedia for information on user-specified topics.
- Generating responses based on input queries using TF-IDF vectorization and cosine similarity.
- Preprocessing text data for modeling purposes.