ALGORITHM FOR WEB INFORMATION RETRIEVAL PROJECT - UE19CS332

PROJECT TITLE: WIKIPEDIA ARTICLE SUMMARIZER

PROJECT BATCH – **TEAM NO 15**

TEAM MEMBERS:

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INTRODUCTION:

Wikipedia articles cover topics at several levels of detail: the lead contains a quick summary of the topic's most important points, and each major subtopic is detailed in its own section of the article.

Text Summarization is one of the techniques used in NLP to create short meaningful collection of text called summaries from text resources like articles, books, research papers or even a webpage. The main objective of a text summarization system is to identify the most important information from the given text and present it to the end users. In this project, Wikipedia articles are given as input to system and extractive text summarization is presented by identifying text features and scoring the sentences accordingly. The text is first pre-processed to tokenize the sentences and perform stemming operations. We then score the sentences using the different text features. The scores are used to classify the sentence to be in the summary text.

Our project code link:

https://colab.research.google.com/drive/1u4Qqfgkw9ioF3clmdym ViYjmJGxzXshP#scrollTo=MtTNZvqPV5A8

Code and output screenshots:

```
CO Aiwir_assignment.ipynb - Colaborat X CO Wikipedia_summarizer.ipynb - Colab X +
   → C a colab.research.google.com/drive/1u4Qqfgkw9ioF3clmdymViYjmJGxzXshP
        Wikipedia_summarizer.ipynb 
        File Edit View Insert Runtime Tools Help All changes saved
                                                                                                                                      RAM Disk Editing
      + Code + Text
                                                                                                                                              ↑ ↓ ⊖ 目 ‡ ॄ Î Î :
        #importing libraries
from nltk.corpus import stopwords
              from nltk.stem import PorterStemmer
              from nltk.tokenize import word_tokenize, sent_tokenize
              import bs4 as BeautifulSoup
import urllib.request
              import nltk
              nltk.download('stopwords')
              nltk.download('punkt')
              [nltk_data] Downloading package stopwords to /root/nltk_data...
              [nltk_data] Package stopwords is already up-to-date!
[nltk_data] Downloading package punkt to /root/nltk_data...
[nltk_data] Package punkt is already up-to-date!
```







