

Graduation Project

Team Members :-

- Mohamed Ahmed Hassan
- Islam El-Sayed

News Feed Summarization

Text summarization in NLP is the process of summarizing the information in large texts for quicker consumption. In this notebook, I will walk you through the traditional extractive as well as the advanced generative methods to implement News summarization.

When you open news sites, do you just start reading every news article? Probably not. We typically glance the short news summary and then read more details if interested. Short, informative summaries of the news is now everywhere like magazines, news aggregator apps, research sites, etc. It is essential for the summary to be a fluent, continuous and depict the significant.

Text summarization methods can be grouped into two main categories:

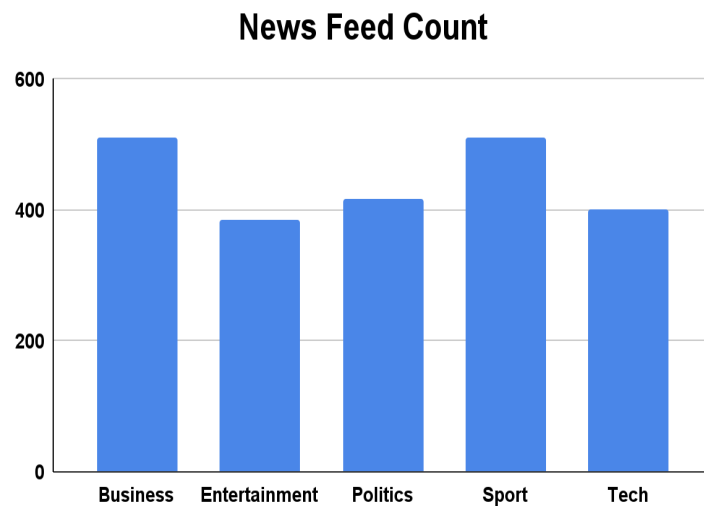
- Extractive
- Abstractive

Language Selected

- English

Dataset

- **BBC News Summary**
- <https://www.kaggle.com/pariza/bbc-news-summary>
- **2225** documents from the BBC news website corresponding to stories in five topical areas from 2004-2005
- **News Distribution :-**
 - Business 510
 - Entertainment 386
 - Politics 417
 - Sport 511
 - Tech 401



Methodology

- Dataset Selection
- Visualizing The Data
- Data Preprocessing
- Text Summarization

Technologies

- Extractive Summarization Techniques such as :
 - TextRank
 - LexRank
- Abstractive Summarization Techniques such as :
 - Deep Learning using Encoder and Decoder based models

Project Link GitHub

<https://github.com/MElbahluan23/News-Summarization/tree/main>