AUTO TITLE CRAFT

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Introduction

- A title generator is a tool or model that generates titles or headlines for text-based content.
- Title generators can be useful for content creators, journalists, and marketers to come up with catchy and informative titles.



Literature Survey

S.NO	Title	Journal	Author	Year	Description
1	Automatic Title	International	Prakhar	2021	This paper introduces an
	Generation for	Civil Service	Mishra,		innovative title generation
	Text with Pre-	Commission	Chaitali		approach using the GPT-2
	trained	(ICSC)	Diwan,		Transformer model, involving
	Transformer		Srinath		modules for generation,
	Language Model		Srinivasa		selection, and refinement, with
					promising results and human
					validation.
2	Sheershak: An	International	Leena	2018	This paper presents an
	Automatic Title	Conference on	Jain,		automatic title generation
	Generation Tool	Advances	Prateek		system for Hindi stories, using
	for Hindi Short	In Computing	Agarwal		various approaches like noun-
	Stories	Communication			adjective combinations,
		Control and			proverbs, and nouns, with
		Networking			satisfactory results, aiding
		(ICACCCN)			Hindi language promotion.

Literature Survey (Contd..,)

S.NO	Title	Journal	Author	Year	Description
3	Keyword	Electrical,	Dani	2020	This research employs TextRank
	Extraction	Telecommuni	Gunawan,		for keyword extraction in three
	from Scientific	cation and	Fanindia		stages: pre-processing, TextRank
	Articles in	Computer	Purnamasari,		application, and post-processing,
	Bahasa	Engineering	Ranti		improving recall with increased
	Indonesia	(ELTICOM)	Ramdhiana		assigned keywords. Future work
	using TextRank				can optimize extraction time.
	Algorithm				
4	Automatic Text	International	Dijana	2019	This paper explores using
	Summarization	Symposium	Kosmajac,		TextRank, a graph-based method,
	of News	INFOTECH-	Vlado Keselj		for extractive text summarization
	Articles in	JAORINA			on Bosnian news data to
	Serbian				enhance information retrieval.
	Language				

Problem Statement

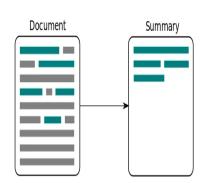
• The proposed project aims to implement a computer program using advanced language understanding and artificial intelligence that can generate catchy and appropriate titles for any collective digital text.



Proposed Method

• TEXT SUMMARIZATION:-

Bert-extractive-summarizer is used to generate concise text summaries. It leverages the Bert model, extracting key information. The summary aids in presenting information more efficiently and effectively from the user given text.



Proposed Method(Contd...,)

 KEYWORD EXTRACTION AND RANKING:- Keywords are identified and extracted from the summary, facilitating efficient retrieval of essential information and enhancing content un-derstanding. YAKE library assigns a "score" to keywords based on deduplication algorithm, specified by 'dedupFunc' in 'Keyword Extractor instantiation.



Proposed Method

 TITLE GENERATION:- YAKE library uses a detailed method for extracting keywords. It assigns scores to keywords using a specific deduplication algorithm, which helps avoid repetition and ensures a nuanced approach to identifying important terms.



Implementation and Result

User_Text: Coffee is a globally beloved beverage that has woven its rich aroma and bold flavor into the fabric of countless cultures. One of the most widely consumed stimulants, coffee owes its popularity not only to its ability to awaken the senses but also to the ritualistic and social aspects that surround its consumption. Whether enjoyed alone in quiet contemplation or shared among friends in a bustling café, coffee has a unique ability to bring people together. The nuances of each step contribute to the diverse array of coffee varieties, each with its own distinct flavor profile.

Summary: Coffee is a globally beloved beverage that has woven its rich aroma and bold flavor into the fabric of countless cultures. Whether enjoyed alone in quiet contemplation or shared among friends in a bustling café, coffee has a unique ability to bring people together.

Implementation and Result (contd..,)

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Keywords:
0.0050460870971503115 (Score: globally beloved beverage)
0.019395584690361505 (Score: countless cultures)
0.028743132570503215 (Score: globally beloved)
0.028743132570503215 (Score: beloved beverage)
0.028743132570503215 (Score: woven its rich)
0.028743132570503215 (Score: rich aroma)
0.028743132570503215 (Score: aroma and bold)
0.028743132570503215 (Score: bold flavor)
0.028743132570503215 (Score: fabric of countless)
0.09692139183006357 (Score: Coffee)
```

Implementation and Result

Sno	Modules	Status
1	Problem identification	Completed
2	Literature Survey	Completed
3	Data Acquisition	Completed
	(https://www.kaggle.com/datasets/thejas2002/titlegen)	
4	Text Summarization	Completed
5	Keyword Extraction Ranking	Completed
6	Title Generation	Completed

Conclusion

- Auto Title Craft, a versatile tool, extracts titles from text using summarization and keyword identification, enhancing content representation.
- Ideal for authors and content creators, this streamlined process ensures concise, impactful titles, contributing to effective communication and engagement with the audience.

References

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- D. Kosmajac and V. Kešelj, "Automatic Text Summarization of News Articles in Serbian Language," 2019 18th International Symposium INFOTEH-JAHORINA (INFOTEH), East Sarajevo, Bosnia and Herzegovina, 2019, pp. 1-6, doi: 10.1109/INFOTEH.2019.8717655.

Thank you