

SmartFind: Information retrieval using NLP

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Motivation:

Information Retrieval using NLP develops an algorithm that can effectively and efficiently retrieve relevant information from large collections of unstructured data using natural language processing (NLP) techniques. We found information retrieval

Significance:

The main significance of this project is to improve the efficiency, accuracy, and user experience of searching and retrieving information from large collections of unstructured data.

Objectives:

- Pre-processing of Data
- Information Extraction
- Indexing and Retrieval
- Ranking of Results

Features:

Improve the accuracy score of retrieving relevant information from large volumes of text data, while also providing a user-friendly interface and incorporating feedback to continuously improve the system's performance. The algorithm should rank the retrieved documents in order of relevance to the user's query.

References:

1. Croft, W.B., Turtle, H.R., and Lewis, D.D. The use of phrases and structured queries in information retrieval. In *Proceedings of the 14th Annual International ACM SIGIR Conference on Research and Development in Information Retrieval* (Oct. 13–16, Chicago, Ill.). ACM/SIGIR, New York, 1991, 32–45.
2. Willett, P., Ed. *Document Retrieval Systems* Taylor Graham, London, 1988
3. Salton, G. and Buckley, C. Improving retrieval performance by relevance feedback. *J. American Society for Information Science*, 41, 4 (1990), 288–297.
4. Liddy, E. D. (2001). Natural language processing.

