EXAFLUENCE
Data Driven Influence

ExfSciFind – Simplifying Scientific Paper Search with Generative AI

Kalaivani K G
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Organizations spend a lot of money on R&D. Typically, what are the challenges faced by stakeholders in accessing and utilizing their in-house scientific research?

Researchers often encounter difficulties when accessing and leveraging their in-house scientific research. Locating specific papers, especially old, scanned ones, can be time-consuming and cumbersome. Additionally, extracting relevant information from these papers for further analysis and insights can be laborious.

#ResearchChallenges

What is Exafluence's solution to the challenges mentioned above?

Exafluence offers a powerful application called ExfSciFind that addresses the pain points faced by researchers. ExfSciFind, powered by Generative AI, aims to digitalize, organize, and provide seamless access to research papers. It also offers advanced search capabilities and semantic question-and-answer functionality, improving the efficiency and effectiveness of research processes.

#DigitalLibrary   #ExfSciFind

That sounds interesting. How does ExfSciFind work?

ExfSciFind leverages Generative AI to provide a holistic solution. The application employs OCR (Optical Character Recognition) technology to handle scanned research papers. It extracts the text from these papers, making them easily searchable and accessible for researchers. Moreover, ExfSciFind automatically extracts crucial meta information such as title, author(s), abstract, and year of publishing from research papers using Generative AI. This enriched metadata is stored in a database, enabling researchers to conveniently find relevant papers based on their search criteria.

Furthermore, ExfSciFind enables researchers to search using natural language queries. It utilizes Generative AI to retrieve semantically relevant answers from the research corpus and present the results in an organized manner, facilitating efficient exploration and extraction of relevant informa-

#SemanticSearch   #GenerativeAI

Every organization's R&D activities are unique, can ExfSciFind be customized for specific scenarios?

ExfSciFind is highly customizable to accommodate the unique R&D activities of each organization. The solution's configurable nature allows organizations to tailor it according to their specific search requirements. By adapting ExfSciFind to their needs, organizations can optimize the search results and enhance the relevance and effectiveness of the application.

#ConfigurationDriven   #LowcodeNocode

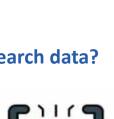## How does ExfSciFind ensure the privacy and security of proprietary research data?

ExfSciFind prioritizes the privacy and security of proprietary research data. All the AI models used in the application reside within the organization's technology platform. This means no confidential data needs to leave the enterprise, ensuring data confidentiality. Researchers can confidently utilize ExfSciFind, knowing that their proprietary research data remains protected and accessible only to authorized individuals.

#Privacy   #Security

Can you provide an example of a real-world use case for ExfSciFind?

One notable real-world use case for ExfSciFind is within a prominent environmental solutions provider. The enterprise faced a challenge with its extensive collection of old research documents that had been digitized, but not made searchable. Without the ability to perform even basic keyword searches, they struggled to access relevant information effectively. By leveraging ExfSciFind, their scanned documents could be converted into searchable files and discovered using effective knowledge discovery processes.

#KnowledgeDiscovery