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PROJECT ABSTRACT

On

GLOBAL MEDIA AND INFORMATION DISCOVERY HUB

BACHELOR OF TECHNOLOGY

in

COMPUTER SCIENCE & ENGINEERING (ARTIFICIAL INTELLIGENCE)

Submitted by

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ABSTRACT

The **Global Media and Information Discovery Hub** is an advanced, multi-functional search and retrieval platform designed to streamline access to diverse information sources across the web. This project integrates a range of search capabilities, allowing users to retrieve content from multiple domains, including multimedia platforms, knowledge repositories, real-time news sources, and search engines. Leveraging natural language processing, voice recognition, and summarization tools, the platform supports intuitive, user-friendly querying and robust information aggregation.

The hub offers a voice-enabled search feature, enabling hands-free access to knowledge via spoken queries, which are processed and transformed into search requests. Users can access summarized information from Wikipedia, YouTube video recommendations, relevant Google search results, and the latest news articles, all within a unified interface. Additionally, the platform features text-to-speech functionality for audibly delivering search results, supporting multi-language accessibility and enhancing the user experience.

To support educational and research use cases, the system provides options to save search histories as PDF reports, making it easy to document and share information findings. With its modular design and reliance on reliable APIs such as Google's YouTube Data API, News API, and Google Custom Search, the Global Media and Information Discovery Hub serves as an indispensable tool for students, researchers, and knowledge seekers. This project demonstrates an efficient, integrated approach to multi-source information retrieval and offers a flexible foundation for future expansions, including additional data sources, language support, and advanced personalization features.

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