

AI -DRIVEN PERSONALIZED RECOMMENDATION SYSTEM FOR PUBLIC

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ABSTRACT

This project presents the development of a multilingual AI assistant designed to facilitate seamless communication across various languages and interaction modes. The system supports text and voice input, allowing users to interact in their preferred language while also offering language selection options. A key feature of the assistant is its ability to generate Tamil text responses, ensuring accessibility to Tamil-speaking users, alongside multilingual support for broader reach. The system integrates speech-to-text (STT) technology, enabling voice-based queries and converting them into text for processing, while text-to-speech (TTS) functionality ensures audio responses. To enhance communication accuracy and efficiency, the assistant employs AI-driven translation, providing contextually correct translations for a wide range of languages. Additionally, the system is equipped to handle location-based queries, delivering relevant information based on the user's geographical context. Users can download responses in multiple file formats, including text and audio files, enhancing the system's usability. This intelligent assistant aims to improve accessibility, efficiency, and user experience, making it an ideal solution for diverse applications, such as customer support, education, travel assistance, and more. By offering language-adaptive, location-aware, and real-time responses, the assistant provides a versatile and user-friendly tool for users across the globe.