Script Scavvy

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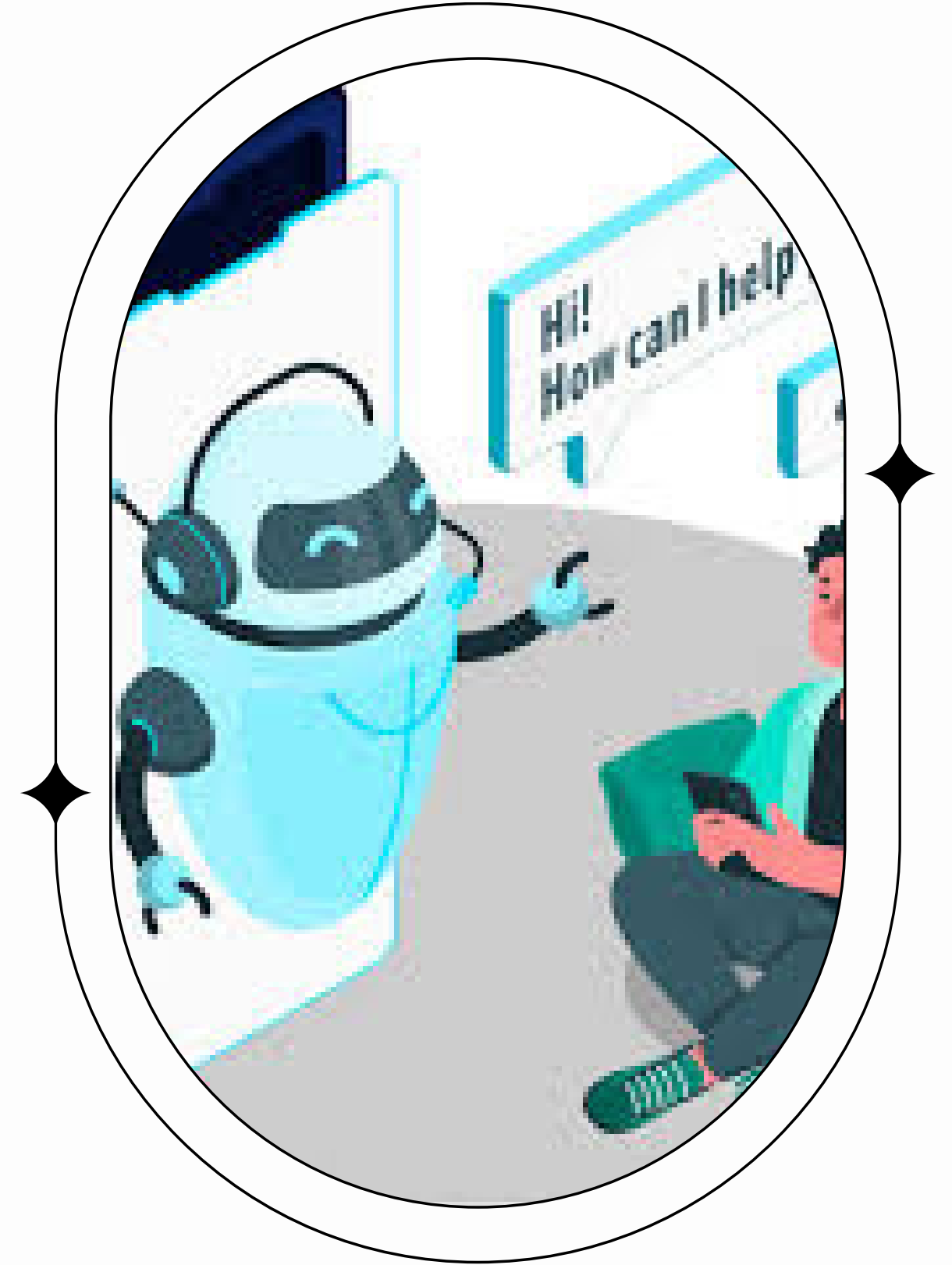Preetham Chandra (1RV23CS182)

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Introduction

India has a wide range of government programs designed to help people, especially those living in rural areas. However, many people find it difficult to navigate the complex process of finding and applying for these programs. This often leads to missed opportunities and limited access to essential benefits.

To address this challenge, we propose the development of an AI-powered chatbot. This chatbot will provide real-time information and guidance on various government schemes, making it easier for individuals to understand their eligibility, gather necessary documents, and complete the application process. By leveraging advanced natural language processing techniques, the chatbot can interact with users in a natural and intuitive manner, answering their queries and providing personalized recommendations.

This innovative solution has the potential to significantly improve access to government benefits, empower citizens, and contribute to the overall socio-economic development of the country.

Problem Statement

The challenge is that while numerous government schemes exist, there is a lack of an easily accessible, user-friendly, and automated system for citizens to discover which schemes they are eligible for. Many individuals in rural areas may not be aware of available opportunities due to language barriers, lack of internet literacy, or the complexity of eligibility criteria. A traditional approach of providing static information through websites or pamphlets is often not sufficient to address the needs of the users in a timely or interactive manner.
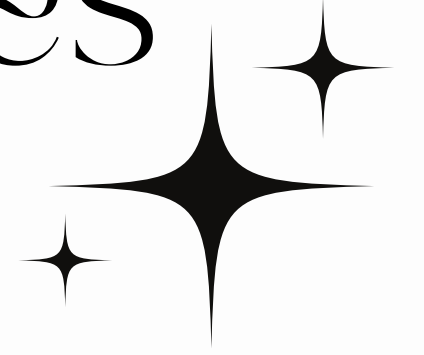
The problem is further compounded by the sheer volume of government schemes and the dynamic nature of updates in eligibility criteria and benefits, making it harder for citizens to stay informed.

Objectives

- Develop a Government Schemes Chatbot: Create an interactive AI-powered chatbot that can assist users in discovering government schemes based on their eligibility and requirements.

- Simplify Information Access: Provide an easy-to-use platform where users can interact with the chatbot, ask questions about available schemes, and receive personalized responses related to their eligibility.

- Integration with Government Schemes Dataset: Integrate a dataset containing details of government schemes, including eligibility criteria, target groups, and other key information, to enable the chatbot to retrieve and present relevant data to users.

- Natural Language Understanding: Implement Natural Language Processing (NLP) capabilities to allow the chatbot to understand user queries in various formats (e.g., "Which schemes are available for farmers?" or "What are the benefits of Skill India?").

- Language Support: Incorporate multi-language support for the chatbot, making it accessible to users in rural areas who may speak regional languages.

- Generative AI for Conversational Responses: Use pre-trained language models (e.g., GPT-2) to handle complex or ambiguous queries that do not directly match the schemes dataset, providing a more conversational and informative response.

- User-Friendly Interface: Develop a GUI (Graphical User Interface) with Tkinter (or other libraries like Streamlit) that allows users to interact with the chatbot in a simple and intuitive way, ensuring accessibility even for individuals with basic digital literacy.

- Deployment and Accessibility: Provide a platform (local or web-based) where the chatbot can be accessed by users, particularly in rural areas, through their smartphones or computers.

Expected Outcomes

Users will be able to easily discover relevant government schemes based on their queries, including eligibility criteria, benefits, and application procedures.

The chatbot will enhance user access to government schemes, improving overall awareness and uptake of welfare programs.

The solution will bridge the gap for citizens, especially in rural and underserved areas, to better understand and access benefits from various government initiatives.

This solution aims to simplify the process of information retrieval for government schemes and empower citizens to avail themselves of benefits that they might otherwise miss out on due to lack of information or accessibility.

THANK YOU