Government Schemes Chatbot Using Machine Learning

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Abstract: *A Chatbots have emerged as powerful tools for addressing user queries in an automated, accurate, and efficient manner. Researchers have employed various soft computing techniques to make chatbots user-friendly, catering to a wide array of domains, from ordering food to providing financial assistance. However, there remains a significant gap in exploring the potential of chatbots in public administration-based services. This paper presents an in-depth exploration of artificial intelligence-based chatbots, their applications, challenges, architectures, and models, tracing their evolution from Turing Test and rule-based systems to advanced AI-based chatbots. Focusing on the intersection of AI and public administration, we propose a novel project: a Government Scheme Chatbot using Machine Learning. This project aims to harness the capabilities of AI-assisted chatbots to streamline access to government schemes and services. By leveraging machine learning algorithms, the chatbot will be trained to understand and respond to user inquiries regarding various government schemes, policies, and services. The project seeks to bridge the gap between citizens and government services, offering a user-friendly interface for accessing vital information and assistance. Through this project, we aim to demonstrate the immense potential of AI-assisted chatbot systems in enhancing governance and public administration services. By providing seamless access to information about government schemes and services, the chatbot can empower citizens, improve transparency, and facilitate better interaction between the government and its constituents. Overall, this project underscores the transformative role of machine learning-powered chatbots in advancing public administration and promoting citizen engagement.*

Keywords: Artificial Intelligence, Machine learning, Chatbot, Response, Query, Dataset, Html, CSS, JavaScript

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