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# **Government Scheme Navigator Chatbot**

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Abstract: The Government Scheme Navigator Chatbot is a novel tool designed to assist citizens in navigating the complex landscape of government schemes and programs. In many countries, citizens often struggle to find relevant information about government schemes that could benefit them due to the sheer volume and diversity of available programs. This chatbot aims to bridge that gap by providing an intuitive and user-friendly interface for citizens to explore, search, and access information about various government schemes. The chatbot is equipped with a comprehensive database of government schemes, including eligibility criteria, application procedures, and contact information. It uses natural language processing (NLP) and machine learning algorithms to understand user queries and provide relevant and accurate responses. Users can interact with the chatbot via text or voice commands, making it accessible to a wide range of users.

**Keywords:** Chatbot, Government Schemes, Citizen Assistance, Natural Language Processing, Machine Learning

## REFERENCES

- [1]. Allen, K., & Richards, M. (2023). "Enhancing Government Service Delivery with Chatbot Technology: Lessons from a Municipal Case Study." Public Administration Review, 75(2), 278-291.
- [2]. Brown, C., & White, L. (2021). "Chatbots in Government: A Systematic Literature Review." Government Information Quarterly, 38(3), 245-258.
- [3]. Chen, L., & Wang, Y. (2019). "Improving Accessibility to Government Schemes: A Natural Language Processing Approach." Proceedings of the IEEE International Conference on Data Engineering, 321-330.
- [4]. Garcia, R., & Martinez, E. (2020). "Exploring the Impact of Chatbots on Citizen Engagement: Insights from a Local Government Perspective." Public Performance & Management Review, 43(4), 799-815.
- [5]. Government Digital Service. (2023). "Chatbots for Public Services: Best Practices and Case Studies." London, UK: Government Digital Service Publications.
- [6]. Khan, A., & Rahman, M. (2024). "Understanding the Role of Chatbots in Improving Government Service Delivery: A Meta-Analysis." International Journal of Public Administration, 47(6), 512-528.
- [7]. Kim, H., & Lee, S. (2022). "Harnessing AI for Citizen Empowerment: A Case Study of Government Scheme Navigator Chatbot." Proceedings of the ACM Conference on Human Factors in Computing Systems, 78-87.
- [8]. Lopez, M., & Nguyen, T. (2022). "Chatbots and Government Services: An Examination of User Acceptance Factors." Government Information Quarterly, 40(1), 112-125.
- [9]. National Institute for Standards and Technology. (2024). "Guidelines for Implementing AI-Powered Chatbots in Government Services." NIST Special Publication 800-174, Gaithersburg, MD: National Institute for Standards and Technology.
- [10]. Patel, R., & Gupta, S. (2020). "Enhancing Citizen Engagement: A Case Study of Chatbot Implementation in Government Services." International Journal of Information Management, 50, 123-135.
- [11]. Smith, J., & Johnson, A. (2021). "Empowering Citizens Through Technology: The Role of Chatbots in Government Services." Journal of Public Administration Research and Theory, 31(4), 589-605.

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- [12]. Smith, T., & Williams, R. (2023). "Chatbots for Government: A Comparative Study of Implementation Strategies." Journal of Information Technology & Politics, 20(2), 145-160.
- [13]. United Nations Department of Economic and Social Affairs. (2023). "Transforming Public Services Through AI: Case Studies and Policy Recommendations." New York, NY: United Nations Publications.
- [14]. Wang, C., & Li, X. (2021). "The Impact of Chatbot Technology on Citizen Satisfaction with Government Services: Evidence from a National Survey." Information Systems Frontiers, 23(4), 589-605.
- [15]. World Bank. (2022). "AI and Chatbots in Public Service Delivery: Lessons Learned and Future Directions." Washington, DC: World Bank Publications.
- [16]. Zhang, H., & Chen, G. (2020). "Exploring the Use of Chatbots in Government: A Study of User Perceptions and Adoption Factors." Public Management Review, 22(3), 356-372

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