

CureVeda: Personalized Ayurvedic Remedies Powered by AI with Expert Consultation

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Abstract— Ayurveda, the ancient system of medicine, is known for its holistic healthcare orientation. However, access to personalized Ayurvedic care remains limited due to the lack of structured digital solutions. CureVeda is an online portal that combines symptom analysis through artificial intelligence with expert consultation to provide accurate and culture-specific Ayurvedic care. With GEMINI API, CureVeda offers users immediate, AI-based remedies while facilitating consultations with qualified Ayurvedic physicians for complicated ailments. This blended model strikes a balance between contemporary AI technology and the ancient knowledge of Ayurveda, providing a smooth and efficient healthcare experience.

Keywords—Ayurveda, AI-Driven Healthcare, Symptom Checker, Online Consultation, Natural Remedies, Holistic Wellness

I. INTRODUCTION

Ayurveda, the ancient system of natural and preventive healthcare, has long focused on individualized treatment based on one's own unique constitution. Despite being a globally popular holistic medicine, access to individualized Ayurvedic therapy remains limited due to the lack of well-established digital solutions. As the healthcare industry adopts digital technology, the convergence of Ayurveda with artificial intelligence (AI) presents a significant yet underexplored potential. Traditional symptom checkers and health platforms, which are primarily allopathic in focus, fail to tap into the

tremendous potential of Ayurvedic treatments. This gap highlights the need for a digital platform that combines the principles of Ayurveda with advanced AI-based technology to provide affordable, accurate, and tailored healthcare alternatives. Meeting this need, CureVeda has devised an AI-based platform that provides personalized Ayurvedic symptom analysis, treatment recommendations, and online consultations with qualified Ayurvedic doctors. The platform is people-focused, committed to all types of users—from those seeking natural treatments for everyday complaints to individuals living with chronic diseases.

The key objective of this project is to create an AI-driven platform capable of interpreting user symptoms and provide personalized Ayurvedic health advice, to design a system to facilitate online consultations with qualified Ayurvedic professionals, and to ensure the platform adheres to Ayurvedic concepts while remaining affordable, accessible, and user-friendly. CureVeda also focuses on keeping users private, secure, and scalable while providing a dependable and user-friendly experience.

The rest of the paper is organized as follows: Section 2 provides an overview of the system, i.e., purpose, scope, and user characteristics. Section 3 contains the literature review that outlines the existing research on AI-based medical chatbots, focusing on accuracy of the diagnosis, usability, and their

potential to enhance healthcare access. Section 4 discusses the implementation and design considerations, including privacy, scalability, and integration of AI. Section 5 discusses the functionality and features of the platform, e.g., symptom analysis using AI, expert consultation, and health information personalized for the patient. Section 6 outlines future developments, including multilingual support, smart wearables compatibility, and advanced AI algorithms. Lastly, Section 7 concludes the paper with an overview of the contributions made by the platform and future possibilities for further growth.

II. SYSTEM OVERVIEW

A. Purpose

The primary objective of CureVeda is to transform how people access and utilize Ayurvedic healthcare by providing precise, reliable, and personalized treatment based on their individual symptoms and health issues. By blending sophisticated AI technology with the centuries-old knowledge of Ayurveda, CureVeda provides users with accurate and efficient remedies in sync with the constitution of their body and their specific requirements. The platform transcends generic solutions by integrating AI-powered recommendations with expert consultations, offering a holistic and integrated healing experience for each user. This approach not only increases the efficacy of Ayurvedic treatments but also instills confidence in users regarding the authenticity and reliability of the advice they are given. Finally, CureVeda will democratize Ayurveda to become easier, more interactive, and effective in the digital era, empowering users to manage their health naturally and sustainably.

B. Scope

CureVeda offers many functionalities designed to suit the divergent needs of its users in order to provide an easy and enriching experience. One of its key functionalities is Symptom-Based AI Recommendations, where it offers real-time, individualized Ayurvedic treatments according to the reported symptoms of the users. It is an AI-based system that scans user input to recommend the best course of treatment, making it a speedy and trustworthy resource for solving health issues. The site also provides Expert Consultations, which allows users to have access to professional Ayurvedic experts who offer in-depth, personalized guidance and long-term treatment plans. This feature is especially helpful for users in need of professional advice to monitor chronic diseases or attain certain health objectives. For simplicity of use, CureVeda has a User-Friendly Interface that streamlines navigation and symptom input, making it available to everyone of all ages and technical knowledge. The intuitive nature of the design ensures that users are able to easily use the platform, thus making their path towards holistic health easy and trouble-free. These elements combined create CureVeda a complete digital Ayurvedic solution that unites ancient healing with contemporary technology.

C. User Characteristics

CureVeda has been developed to cater to a broad user base, addressing the distinct needs and inclinations of different user segments. General Users constitute a large segment of platform's users, ranging from those seeking natural remedies for common, everyday problems like digestive disorders, stress, or hay fever. Such users are advantaged by the platform's speedy and trustworthy AI-driven suggestions, which offer immediate access to Ayurvedic remedies for minor ailments. Another important target audience is patients with Chronic Conditions, who need extended and specialized treatment to deal with persistent health conditions like diabetes, arthritis, or skin diseases. In their case, CureVeda provides professional consultations and customized treatment plans, providing them with professional advice and care necessary for long term recovery. Finally, the platform attracts Ayurvedic Enthusiasts—people who are passionate about Ayurveda and holistic health regimes. These customers are attracted to CureVeda due to its genuine Ayurvedic ethos, learning portal, and provision for discovering personal remedies that comply with their objectives of wellness. By meeting the requirements of such a diverse array of users, CureVeda ensures that its advantages universally accessible.

III. LITERATURE REVIEW

The application of artificial intelligence (AI) and chatbot technology in healthcare has attracted attention because of its ability to increase accessibility, lower costs, and facilitate early detection of disease. In rural settings, where the health infrastructure is lacking, AI-based symptom checkers are a promising solution to bridge the gap between physicians and patients. Various studies have attempted to establish the usability and feasibility of AI-based chatbots for medical diagnosis, patient interaction, and independent diagnosis processes. This section outlines existing research on AI-based medical chatbots, including diagnostic accuracy, in addition to enhancing healthcare access in real life.

Medical chatbots are AI and NLP-based computer systems to mimic human voice and render initial medical diagnosis. They are increasingly being integrated across healthcare uses, ranging from patient triaging, diagnosis support, and teleconsultations.

One recent research [1] of AI-based chatbots in rural India's healthcare showed promise to save healthcare expenses and enhance accessibility. The chatbot utilized NLP methods during symptom processing and guiding the users towards lower-cost healthcare. Srivastava and Singh (2020) [2] also developed an AI-based Medibot with the ability to diagnose common medical conditions using human-machine interface features.

Another massive study of 47,684 Chinese chatbot consultation sessions [3] found that symptom-checker chatbots are popular across all age groups and for most medical conditions, including socially stigmatized ones. Nevertheless, the study also found dropout rates and user trust as main concerns.

These studies indicate that chatbots powered by AI have the potential to make a significant difference in the provision of healthcare, especially in low-resource environments, but need to be more accurate and reliable.

While AI chatbots first diagnose, their dependability is a matter of data quality, training algorithms, and the effectiveness of NLP. A rural Indian study [1] proved that chatbots driven by AI were capable of providing precise symptom analysis through machine learning algorithms based on heterogeneous medical databases. Srivastava and Singh (2020) [2] also noted a 65% recall and 71% precision in the identification of symptoms by the chatbot, which was an area that required further fine-tuning. Fan et al. (2021) [3] determined that most patients found chatbot diagnoses to be inaccurate or fail to provide actionable medical information, leading to a loss of confidence.

Dermatology and mental health application studies indicate that AI models are adequately performing in defined settings but are not good at handling uncertain or new conditions. In spite of these constraints, AI chatbots are good first-line diagnostic aids that refer individuals to the proper medical consultation. One of the most compelling strengths of AI chatbots is that they can bridge the health gap in rural and underserved populations. D et al. (2024) [1] noted that symptom-checker chatbots have the potential to transform rural medicine by lowering the cost of consultations and offering medical advice at a distance. Srivastava and Singh (2020) [2] illustrated that doctors can be aided by AI chatbots to manage routine medical queries, while experts deal with critical cases. Fan et al. (2021) [3] reported that although chatbots expand health access, user engagement strategies must be strengthened to develop more adoption. These results show that AI chatbots can make healthcare access greater, especially where there is weak medical infrastructure.

Its integration into traditional medicine systems such as Ayurveda is in its infancy but with a monumental promise. Patel and Singh (2020) [4] studied the future of AI application in Ayurveda, referring to the latter as ready to increase focused treatment while correcting shortcomings to integrating traditional medicine with the potential of modern technology. Ayurveda, as individualized and holistic medicine, has much to benefit from the use of AI-based technology, particularly in designing personalized therapies and long-term care plans. The study also emphasized the importance of maintaining the integrity of Ayurvedic principles while leveraging AI for improving diagnostic accuracy and drug suggestions. This synergy can democratize access to Ayurvedic care by making it more accessible to marginalized groups.

AI has also shown promise in the management of chronic diseases, which is directly transferable to platforms like CureVeda. Jiang et al. (2017) [5] gave a summary of AI use in healthcare, highlighting its application in managing chronic conditions like diabetes, arthritis, and cardiovascular diseases. AI-based systems can process large amounts of data to determine patterns and forecast health outcomes, and hence are most applicable to managing long-term health conditions. The study highlighted the potential of AI to enable constant

monitoring and adaptive treatment plans, which are very important for patients with chronic ailments. It is consistent with CureVeda's mission to provide long-term and personalized Ayurvedic treatment to users with recurrent health issues.

The literature reveals that AI-based symptom-checker chatbots are promising tools for early disease detection, triage, and patient education. Even when research [1]–[3] emphasizes their attributes of reducing costs and accessibility, precision, and user confidence, ethical issues have to be resolved. Patel and Singh (2020) [4] highlight the scope of AI in traditional medical systems like Ayurveda, emphasizing its potential for optimizing individualized therapy and overcoming challenges in integrating ancient traditions with advanced technology. Similarly, Jiang et al. (2017) [5] point to the use of AI in the treatment of chronic diseases, showing how AI systems can analyze big data to provide adaptive and long-term treatment plans. These studies collectively suggest that while AI chatbots hold tremendous promise, their integration into healthcare systems must prioritize precision, transparency, and alignment with traditional medical paradigms in order to ensure widespread adoption and acceptance.

Future research should be directed towards:

- Improving accuracy in chatbots by real-time incorporation of healthcare data.
- Increasing users' confidence by increased explainability and transparency.
- Developing AI models for other healthcare systems like Ayurveda so that one can make chatbots even more powerful.
- Through the integration of AI chatbots with mainstream healthcare services, initiatives like CureVeda can make it possible to merge existing AI technologies with conventional medical practice and facilitate greater healthcare access to everyone.

IV. IMPLEMENTATION AND DESIGN

A. Design Considerations

- **Privacy and Security:** CureVeda prioritizes the confidentiality and security of user information by adhering to stringent data protection standards, including GDPR compliance. This ensures that all personal and health-related data shared by users is handled with the utmost care, safeguarding their privacy and building trust in the platform.
- **Authenticity and Accuracy:** The platform is committed to maintaining the integrity of Ayurvedic principles. All AI-generated remedies are carefully designed to align with traditional Ayurvedic knowledge, ensuring that users receive authentic and

accurate recommendations that are rooted in centuries-old wisdom.

- **Scalability:** CureVeda's architecture is built to accommodate a growing user base without compromising performance. The design ensures that as more users join the platform, the system remains efficient, responsive, and capable of delivering high quality service to everyone.
- **Real-Time AI Processing:** The integration of the GEMINI API enables CureVeda to analyze user-reported symptoms seamlessly and provide real-time Ayurvedic remedies. This feature ensures that users receive instant, reliable, and actionable health recommendations, enhancing their overall experience.
- **Multi-Platform Support:** To ensure accessibility and convenience, CureVeda is designed to be compatible with both web and mobile applications. This multi-platform support allows users to access the platform's features anytime, anywhere, providing a seamless and uninterrupted experience.
- **User Feedback Integration:** CureVeda's AI models are continuously refined and improved based on real-time user feedback. This iterative process ensures that the platform's recommendations remain relevant, accurate, and effective, adapting to the evolving needs of its users.

B. Dependencies and Assumptions

- **Good Internet Connectivity:** The platform relies on stable internet connectivity to deliver AI-based recommendations and facilitate online consultations. A consistent connection is essential for users to access real-time recommendations and interact with Ayurvedic experts seamlessly.
- **API Integrations:** CureVeda leverages API integrations to streamline functionalities such as scheduling doctor consultations and ensuring robust data security. These integrations enhance the platform's efficiency and reliability, providing users with a smooth and secure experience.
- **User Consent:** The platform operates on the principle of transparency and user consent. Before collecting any health-related information, CureVeda ensures that users provide explicit consent, respecting their autonomy and privacy.
- **Machine Learning-Based Improvements:** The AI system powering CureVeda is designed to learn and evolve over time. By analyzing user interactions and incorporating expert feedback, the platform

continuously improves its recommendations, ensuring they remain accurate, personalized, and effective.

- **Adherence to Ayurvedic Medical Standards:** To maintain the authenticity of its recommendations, CureVeda ensures that all AI-generated remedies are regularly reviewed and validated by qualified Ayurvedic practitioners. This process guarantees that the platform's suggestions adhere to established Ayurvedic medical standards, providing users with reliable and trustworthy guidance.

C. Frontend Architecture

The landing page of CureVeda as shown as in Fig. 1. contains the Login and Get Started option where we can sign up or login as a user and doctors who are registered under CureVeda can also login. It also explains the details about CureVeda site and their terms and conditions.

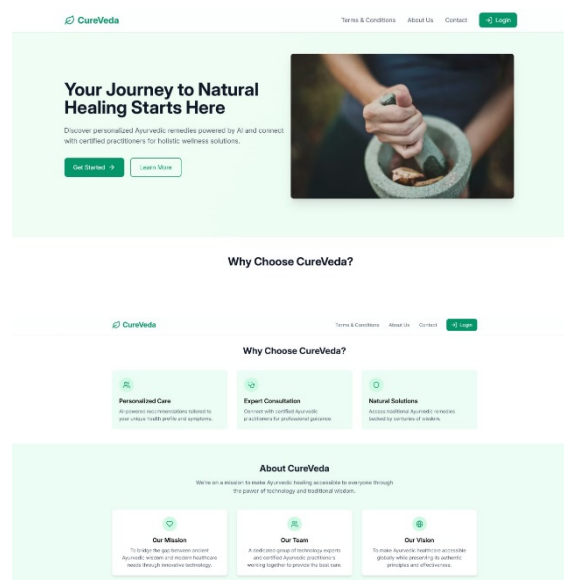
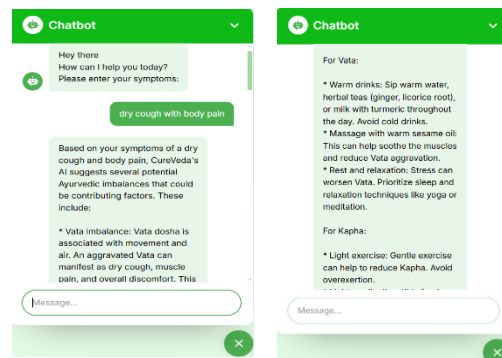


Fig. 1. Landing page of Cureveda

In the user dashboard we have a symptom checker and health advice chatbot as shown in Fig. 2. where the user can input their symptoms and receive excellent prompt about their condition and suggestions to improve their lifestyles.



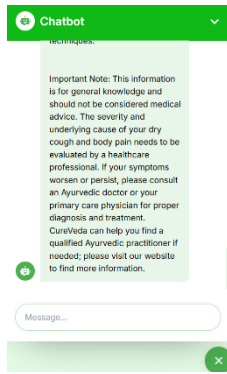


Fig. 2. Ayurvedic Chatbot

In severe cases, we can also book online consultation with CureVeda's trusted Ayurvedic Doctors as shown in Fig. 3.

Fig. 3. Online Consultation Booking Form

V. FUNCTIONALITIES AND FEATURES

A. AI Suggestions Based on Symptoms

CureVeda leverages advanced AI technology to analyze user-entered symptoms in real-time, providing personalized and natural Ayurvedic treatments tailored to individual needs. Drawing from the rich principles of Ayurveda, the platform offers a variety of recommendations, including herbal medicines to address specific health concerns, dietary guidelines to promote balance and nourishment, and lifestyle changes to enhance overall well-being. Moreover, CureVeda also recommends meditation and stress management techniques to lead the users to mental and emotional balance, and Ayurvedic detoxification programs aimed at maintaining long-term health and wellness. These AI-based recommendations ensure that users receive holistic and accurate remedies based on the ancient knowledge of Ayurveda.

B. Expert Consultation Services

For individuals suffering from serious or chronic health issues, CureVeda provides access to experienced Ayurvedic doctors via its expert consultation services. The consultations ensure that users receive customized treatment plans tailored to their individual health requirements, as well as therapies recommended by experts in accordance with Ayurvedic

practices. The platform adopts a holistic well-being approach, addressing the mind, body, and spirit to ensure overall healing. To improve the efficacy of consultations, CureVeda employs AI-based patient history analysis, allowing doctors to make decisions and give better recommendations. Users also have the advantage of follow-up sessions to track their progress and maintain sustained health improvement.

C. Personalized Health Insights

CureVeda goes beyond providing instant relief symptom relief by offering personalized health insights that evolve as the user's journey progresses. The platform tracks users' symptoms over time, allowing adaptive AI recommendations that are customized based on historical data and health patterns. This capability facilitates long-term well-ness monitoring and preventive healthcare, allowing users to stay in the best state of health. CureVeda also offers customized Ayurvedic life-style guidance, including daily habits and seasonal routines, to suit individual requirements. Users are sent daily Ayurvedic reminders and tips personalized to their interest, which encourages regular interaction with their wellness plans. In addition, the platform also examines the influence of diet and nutrition on diseases and provides useful recommendations for enhancing well-being overall.

D. Compliance and Safe Data Management

CureVeda gives high priority to user security and trust by establishing strong data management policies. The platform provides GDPR-compliant data protection, ensuring confidentiality of user data and safe-guarding user information. All consultation records and user history are kept safe, with appropriate measures in place to ensure that unauthorized access is not allowed. CureVeda ensures the confidentiality of all health-related data, ensuring sensitive information is treated with care. As part of future upgrades, the platform intends to implement blockchain-based secure storage to further secure data and avoid breaches. Also, all doctor-patient communications are through encrypted channels of communication, adding an added layer of privacy protection for the users.

E. Intuitive User Interface

CureVeda's user interface is intuitive, easy to use, and easily accessible by all age groups and technical users. The platform facilitates users to easily input symptoms, thereby ensuring a hassle-free experience. After inputting symptoms, users are given instant remedies in the form of AI-based suggestions, making it a fast and trusted means of dealing with health issues. The platform also makes it easy to schedule doctor consultations, allowing users to access Ayurvedic professionals with ease. For users who want to learn more about Ayurveda, CureVeda offers interactive Ayurvedic learning modules, which help increase self-knowledge and allow users to take charge of their health. Also, users can tailor wellness plans according to their interests and past health patterns so that the experience is personalized and interactive.

VI. FUTURE DEVELOPMENTS

As CureVeda expands further, there are some interesting future updates in the pipeline to increase its functionality, accessibility, and usability. These updates are aimed at making Ayurveda more inclusive, cutting-edge technology-wise, and accessible all over the world. The major future developments are:

A. Multilingual Support

To make the benefits of Ayurveda accessible to people Worldwide, CureVeda plans to implement multilingual support. Through this, non-English speaking individuals will be able to use the platform in their local languages, eliminating language barriers and making Ayurvedic healthcare inclusive and accessible to all across the globe.

B. Integration with Smart Wearables

CureVeda will integrate with smart wearable devices to enable real-time health monitoring. Syncing with devices such as fitness trackers and smartwatches, the platform will help users gain access to ongoing health information, customized advice, and early alerts for potential health issues based on real-time data.

C. Blockchain for Secure Storage

To further strengthen data security and transparency, CureVeda intends to use blockchain technology for tamper proof storage of medical history. This will provide assurance that user's health records are stored safely, easily accessible, and out of reach from unauthorized access, building higher levels of trust and reliability.

D. Advanced AI Algorithm

The platform will utilize more advanced machine learning algorithms to enhance diagnostic accuracy and treatment suggestions. These new AI models will process user data more thoroughly, suggesting even more accurate and customized Ayurvedic treatments.

E. Ayurveda Community Forum

CureVeda will also launch a community forum where people can post their experiences, remedies, and wellness stories. This will create a sense of community, enabling users to learn from one another and get inspiration for their own health aspirations.

F. Ayurvedic Clinics and Pharmacy Partnerships

To provide users with genuine and high quality Ayurvedic products, CureVeda will partner with certified Ayurvedic clinics and pharmacies. This will allow users to easily buy genuine herbal medicines and other Ayurvedic products suggested by the platform.

G. Virtual Ayurvedic Workshops

The site will feature virtual workshops and webinars presented by Ayurvedic experts. These workshops and webi-

nars will give users extensive information regarding Ayurvedic principles, practices, and remedies, enabling them to become more proactive in their health and well-being.

H. Home-Based Ayurvedic Testing Kits

CureVeda is to launch home-testing kits through which users can measure their doshas (body type) at home. These kits will give customized feedback, so users can be provided with targeted Ayurvedic treatments as per their individual dosha reports.

I. Voice-Guided Ayurveda Guide

To provide greater ease of access to visually impaired users, CureVeda will create a voice-based navigation system. Through this feature, users will be able to use voice commands to interact with the platform, and everyone will be able to avail themselves of its services.

J. Predictive Health Trends

Using AI-powered analytics, CureVeda will bring predictive health information to assist users in detecting possible health threats before they turn into full-blown problems. Based on patterns in user data, the platform will give actionable suggestions for preventive care, allowing users to stay in top health and well-being. To provide greater ease of access to visually impaired users, CureVeda will create a voice-based navigation system. Through this feature, users will be able to use voice commands to interact with the platform, and everyone will be able to avail themselves of its services.

VII. CONCLUSION

CureVeda transforms Ayurvedic medicine by combining sophisticated AI-based symptom evaluation with professional advice. This ground breaking web-based system, fueled by the Gemini API, balances new technology with traditional healing arts, providing personalized and convenient Ayurvedic treatments. In contrast to generic symptom screens that provide general solutions, CureVeda emphasizes Ayurvedic principles, with each suggestion in harmony with natural wellness practices.

What makes CureVeda unique is its ability to integrate artificial intelligence with a human touch. Users are provided with instant remedy recommendations based on Ayurvedic principles and can choose to seek the advice of certified practitioners online for further guidance. The platform has been made simple, with an easy-to-use interface that enables users to resolve their health issues with ease. Moreover, strong privacy controls and a scalable architecture provide data protection while supporting increasing user loads.

CureVeda converts Ayurvedic treatment into an interactive and easy-to-use experience, instilling confidence in digital health platforms. With advancing technology, the platform can evolve its AI capabilities, connect with electronic health records, and

further improve the user experience. With these enhancements, CureVeda may become a go-to partner for individuals looking for genuine and effective Ayurvedic wellness solutions

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