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AI-powered Chatbot for Vrikshayurveda

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Statement of the Problem: Vrikshayurveda, an ancient Indian science of plant life, holds a wealth of knowledge about plant physiology, horticulture, pathologies, and their treatment. This valuable manuscript, originally written in Sanskrit, provides in-depth insights into various aspects of plant life. Despite the existence of translations, the profound wisdom contained within these texts remains largely inaccessible to ordinary farmers who need practical solutions to specific agricultural problems. Additionally, researchers often face challenges when seeking references on particular topics, as accessing the relevant information requires reading the entire book.

The primary goal of this project is to make the extensive knowledge of Vrikshayurveda more accessible and practical for its users. To achieve this, the project plans to integrate the ancient wisdom with modern technology by developing an AI-powered chatbot. This chatbot will be designed to engage in natural conversations with users, effectively addressing their queries using a comprehensive knowledge base derived from the Vrikshayurveda manuscript.

By leveraging artificial intelligence, the chatbot will provide targeted solutions to the specific questions posed by farmers and agricultural stakeholders. This will not only make the ancient knowledge more user-friendly but also ensure that it can be readily applied in contemporary agricultural practices. The AI-powered chatbot will serve as a bridge, connecting the ancient science of Vrikshayurveda with modern farming techniques, thereby enhancing productivity and sustainability in agriculture.

The project envisions a future where farmers and researchers can easily access and utilize the centuries-old wisdom of Vrikshayurveda through simple, intuitive interactions with the chatbot. This transformation will democratize the knowledge, making it a valuable resource for enhancing agricultural practices and addressing the challenges faced by the farming community today.

Biography

Dr. Laxmi Rananavare currently serving as an Associate Professor at the School of Computer Science and Engineering, REVA University, Bangalore, India, She brings over 30 years of invaluable experience in teaching Computer Science and Engineering. Her dedication to academia is further reflected in her memberships in esteemed professional organizations such as IEEE, CSI, and ISTE (MISTE), India. Her primary research interests revolve around Artificial Intelligence, Machine Learning, and Natural Language Processing. Her research endeavors have resulted in numerous publications in both national and international conferences and journals. Her work has had a profound impact on the academic and research communities, inspiring her peers and students alike. Through her innovative research and passionate teaching, she has helped shape the future of Computer Science and Engineering, leaving a lasting impression on those she has interacted with.