IJARSCT



International Journal of Advanced Research in Science, Communication and Technology

International Open-Access, Double-Blind, Peer-Reviewed, Refereed, Multidisciplinary Online Journal

Volume 5, Issue 6, April 2025



AI-Powered Personal Fitness Assistant: A Smart Solution for Health and Wellness

Dr. C. Daniel Nesa Kumar¹, Mr. S. S. Saravana Kumar², Dr. S. Shylaja³,

Dr. K. S. Gowrilaksshmi⁴, Ms. S Aswitha⁵

^{1,2,3,4}Assistant Professor, Department of Computer Applications ⁵UG Students, Department of Computer Applications Sri Ramakrishna College of Arts & Science, Coimbatore

Abstract: In today's fast-paced and technology-driven world, achieving and maintaining a healthy lifestyle can be a daunting challenge. Many individuals struggle with finding the right balance of nutrition and exercise due to the vast amount of information available, which often leads to confusion and inconsistency in following a structured fitness plan. To address this issue, the AI-powered Personal Fitness Assistant provides a smart, personalized, and data-driven approach to help users make informed health and fitness decisions. This application, built using Lang Flow and Astra DB, offers accurate macronutrient recommendations based on user-specific inputs such as age, weight, height, and fitness guide, offering expert-backed recommendations on work- out routines, dietary choices, and overall healthy habits. The system's core strengths lie in its focus on customization, ease of use, and accessibility, making it an invaluable tool for individuals striving to achieve their health and wellness goals effectively

Keywords: AI Fitness Assistant, Lang Flow, Astra DB, Personalized Health, Workout Planning, Nutrition Management





583