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 7, May 2025

Impact I



AI Personal Assistant Using Next.js, React, Convex DB and Eden AI Algorithm

Prof. Rutuja Gautam¹, Prof. Rohan Kokate², Sumeet Karwade³

Professor (Guide), J.D. College of Engineering and Management, Nagpur, India ¹
Head of Department, Computer Application, J. D. College of Engineering and Management, Nagpur, India ²
Computer Application, J.D. College of Engineering and Management, Nagpur, India ³

Abstract: AI assistants have changed the way we use technology. Now we can just talk to them to get things done, find info, or make choices. These systems are built using tools like Next. js for fast wed interfaces, Convex DB for real-time data handling, and Eden AI to connect with different AI models and services. By integrating algorithms such as intent classification, named entity recognition, and sentiment analysis, personal assistants can interpret and respond to complex user commands effectively.

By combining these technologies, personal assistants can understand and respond to complex user requests more smoothly. They learn from users' interaction, like what they ask, how they ask it, and when. Over time, this helps them give smarter, more personalized answers that fit your habits and preferences.

Incorporating these models within a modern tech stack—such as React and Next.js for frontend, Convex DB for real-time data storage, and Eden AI for pre-trained language services—allows rapid development and deployment. This architecture supports modular, scalable, and intelligent assistants that can handle reminders, calendar scheduling, voice commands, and more. The result is a responsive, context-aware assistant capable of enhancing user productivity and engagement.

DOI: 10.48175/IJARSCT-26834

Keywords: Next.js, AI Chatbot, User Dashboard, Add New Assistant, Support Multiple Languages





