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AI-Powered Digital Platform for Religious Literature

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ABSTRACT: Digital reading platforms have revolutionized the consumption of literary content, offering enhanced convenience and accessibility. However, existing platforms such as Kindle Cloud Reader, Google Play Books, Scribd, and Open Library lack artificial intelligence-driven interactive features, real-time text highlighting, and seamless reading experiences tailored for religious and educational texts. Akshar Vachan is an artificial intelligence-powered digital reading platform designed to enhance user engagement through text-to-speech functionality, synchronized word highlighting, interactive note-taking, and hover-to-read features. This research investigates the limitations of existing digital reading platforms and elucidates Akshar Vachan's innovations, including MERN stack technology, EPUB is integration, and artificial intelligence-driven speech synthesis. The platform offers both free and paid books, with Razorpay integration for seamless transactions, ensuring accessibility for a diverse audience. Additionally, new interactive features such as a favorites section, offline book downloads (in progress), a Netflix-style profile system based on subscription plans, and engaging games like crosswords and word search puzzles have been introduced. A popular books component and a reading progress tracker further enhance user experience by making navigation and engagement more intuitive. A comparative analysis is conducted to evaluate Akshar Vachan's user experience, accessibility, and artificial intelligence-enhanced features against industry leaders. The study concludes that Akshar Vachan addresses the gap in digital reading by providing an intelligent, immersive, and user-friendly solution for spiritual, religious, and academic literature. Future advancements may include multilingual artificial intelligence narration, expanded accessibility features, AI-driven personalized recommendations, and enhanced gamification elements to further advance the digital reading experience.

KEYWORDS: Artificial Intelligence, Digital Reading Platform, Religious Literature, Text-to-Speech, AI Narration, EPUB.js, Interactive Reading, Synchronized Highlighting, MERN Stack, Speech Synthesis, Granth Digitization, E-Book Accessibility, AI-Powered E-Reading, Structured Formatting, User Engagement, Razorpay Integration, Spiritual Texts, Multi-Language Narration, Digital Preservation, E-Reading Technologies.

I. INTRODUCTION

Religious literature plays a vital role in cultural preservation, spiritual growth, and knowledge sharing. As digital platforms expand, converting religious texts into eBooks is essential for accessibility, longevity, and distribution. However, mainstream eBook platforms like Kindle Cloud Reader, Google Play Books, Scribd, and Open Library primarily focus on general and academic literature, offering limited support for structured granths. These texts require specialized formatting, interactive features, and enhanced readability for an optimal digital reading experience (Clark et al., 2008).

Traditional religious scriptures feature complex structures, Sanskrit shlokas, verse-based compositions, and commentary sections that existing platforms fail to support adequately. These platforms also lack AI-driven features for dynamic reading, comprehension, and interaction. The absence of synchronized audio narration, real-time text highlighting, and interactive tools makes it difficult for users, especially those unfamiliar with ancient scripts, to fully engage with these sacred texts (Alkhouri, 2024).

To address these deficiencies, Akshar Vachan aims to digitally transform religious literature by providing an artificial intelligence-powered, interactive reading platform that integrates speech synthesis, text highlighting, note-taking capabilities, and seamless navigation. In addition to these core features, Akshar Vachan now includes a favorites section, allowing users to save their preferred books for quick access. The offline download feature (in progress) enables users to read religious texts without an internet connection, enhancing accessibility. Furthermore, a Netflix-style profile system has been introduced, allowing multiple users to access the platform based on their subscription plans. To promote engagement, interactive puzzle-based games like crosswords and word search have been integrated, offering an enjoyable way for users to connect with religious texts. A popular books section has been added to highlight





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trending and widely-read books, making discovery easier. Additionally, a reading progress tracker now displays the percentage of a book a user has completed, enhancing motivation and engagement. With these new enhancements, Akshar Vachan continues to bridge the gap in digital religious reading by offering an immersive, AI-powered experience tailored for structured granths and sacred texts. This research examines the impact of these interactive and AI-driven features in improving accessibility, engagement, and comprehension for users worldwide.

As technology continues to evolve, digital reading platforms must adapt to provide more than just text display. User engagement and personalization have become key factors in enhancing the reading experience. By incorporating gamification elements, personalized content discovery, and multi-user access, Akshar Vachan aims to redefine how religious literature is consumed in the digital era. The integration of interactive features such as puzzles, favorites, and progress tracking encourages readers to stay engaged with sacred texts while maintaining a structured and immersive learning experience. These advancements ensure that Akshar Vachan not only preserves religious literature but also makes it more accessible, interactive, and relevant for modern readers.By integrating AI-driven enhancements and accessibility tools, the platform ensures a seamless and immersive reading experience for diverse audiences.

II. LITERATURE SURVEY

The digital reading landscape has evolved significantly with the advent of eBook platforms, AI-driven technologies, and digital preservation efforts. However, existing platforms lack specialized support for religious and ancient texts, which require structured formatting, interactive reading features, and AI-driven accessibility tools. Additionally, modern users expect greater interactivity, personalization, and engagement, which most traditional eBook platforms fail to provide. This section examines existing eBook platforms, AI-driven e-reading technologies, digital preservation efforts, and how Akshar Vachan integrates AI-driven enhancements, interactive reading tools, and user-centric features to overcome these limitations.

Several commercial eBook platforms dominate the digital reading space, including Kindle Cloud Reader, Google Play Books, Scribd, and Open Library. While these platforms provide access to a vast collection of books, they have significant limitations when it comes to religious literature, structured granths, interactive reading features, and personalized engagement. Kindle Cloud Reader supports cross-device synchronization, offers a large digital library, and provides basic text-to-speech (TTS) through Amazon's VoiceView. However, it lacks real-time text highlighting, inline note-taking tailored for scriptures, and advanced AI-driven reading assistance. Additionally, Kindle's formatting is unsuitable for structured granths with verses and commentaries, making it ineffective for religious texts that require structured reading experiences (Clark et al., 2008). Google Play Books provides offline reading, cloud-based storage, and built-in dictionary support. However, it does not support EPUB.js-based interactive reading, lacks AI-driven narration with synchronized highlighting, and offers limited tools for structured texts like granths. This limitation restricts its usability for readers who seek an enriched reading experience tailored to scriptural literature (Dutoit, n.d.). Scribd offers an all-you-can-read subscription model with a vast content library, making it an attractive option for general reading. However, it does not integrate AI-powered features, has limited accessibility for non-mainstream content, and lacks adequate support for structured religious texts. The absence of personalized book recommendations, interactive engagement features, and gamified elements makes it less suitable for readers looking for an engaging and immersive religious text reading experience (Kalmykov, n.d.). Open Library is known for providing free access to books through a digital archive initiative, making it a valuable resource for accessing a wide range of literature. However, it lacks advanced AI reading tools, does not offer real-time interaction features, and provides limited text-tospeech support. These shortcomings make it difficult for readers to engage with structured religious texts in an interactive and accessible manner (Kalmykov, n.d.).

While these platforms provide basic digital reading functionalities, they fail to integrate AI-driven enhancements, accessibility tools, personalized recommendations, and interactive engagement features necessary for religious texts. Akshar Vachan bridges this gap by offering a feature-rich AI-powered reading experience tailored for scriptural literature, including: A "Favorites" option, allowing users to save and access their preferred books easily. Offline downloads (in progress) to provide accessibility even without an internet connection. A Netflix-style multi-user profile system, where the number of users depends on the subscription plan. Interactive puzzles like crosswords and word search, encouraging an engaging learning experience. A popular books section to highlight trending books for better content discovery. A progress tracking feature to show how much of a book a user has completed. These innovations





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ensure that Akshar Vachan not only preserves religious literature but also enhances user engagement and personalization.

Advancements in AI-driven text-to-speech (TTS) technology have significantly enhanced digital reading by improving accessibility and comprehension, particularly for religious and academic texts (Smith et al., 2022). However, most existing platforms lack real-time text synchronization with AI narration, making it difficult for users to visually track spoken words as they read. Akshar Vachan addresses this gap by integrating AI-powered speech synthesis, providing natural-sounding narration with multilingual support, ensuring that users can listen to religious texts in their preferred language. Additionally, the platform offers real-time text highlighting, allowing users to follow along as the text is read aloud, improving engagement and retention (Dutoit, n.d.). To further enhance user experience, customizable playback controls enable adjustments such as speed modulation and pausing, catering to individual reading preferences. Beyond AI narration, Akshar Vachan is evolving into a personalized reading assistant by implementing AI-driven book recommendations, which suggest relevant books based on users' reading history and interests. This not only enhances accessibility and engagement but also ensures a tailored content discovery experience, making religious literature more interactive, immersive, and user-friendly.

Unlike traditional eBook platforms, Akshar Vachan integrates gamification elements to increase engagement. The addition of crossword and word search puzzles related to religious texts helps users interact with content beyond passive reading. Research indicates that interactive learning enhances comprehension, memory retention, and user satisfaction, making these features essential for modern digital reading platforms (Chasen et al., 2014). Additionally, the reading progress tracker provides a visual indicator of how much of a book has been completed, motivating users to continue their reading journey.

Digital preservation of religious texts requires maintaining structured formatting while integrating modern accessibility tools. Akshar Vachan ensures this by : Accurately representing granths in digital formats. Maintaining their original structure, including verses and commentaries. Integrating AI-driven search capabilities and annotation features for deeper study. By preserving religious texts and enhancing accessibility, Akshar Vachan addresses the limitations of existing platforms, which lack AI-driven enhancements, real-time text synchronization, and interactivity. Research in TTS, EPUB.js, and digital preservation highlights the need for structured, interactive, and accessible reading solutions. Akshar Vachan builds on these insights to bridge the gap between traditional religious texts and modern digital engagement through an AI-powered reading platform that prioritizes user engagement, personalization, and accessibility, and engagement becomes increasingly important. Akshar Vachan's innovative features including offline downloads, favorite sections, progress tracking, gamified learning, and multi-user profiles position it as a modern, comprehensive solution for religious literature. By combining AI, interactivity, and digital preservation, Akshar Vachan ensures that religious texts remain accessible, engaging, and immersive for modern readers, transforming the way people interact with sacred literature in the digital age.

III. METHODOLOGY

Akshar Vachan is a modern digital reading platform designed using the MERN stack, incorporating AI-driven functionalities to enhance user experience. The backend, built with Express.js and Node.js, ensures seamless API handling, authentication, and multi-user profile management, while MongoDB stores essential data like book metadata, user preferences, highlights, and notes. React.js powers the frontend, providing a dynamic and interactive interface, and TypeScript enhances maintainability with strong typing. A key feature is the Netflix-style multi-user profile system, allowing multiple profiles under a single account based on subscription plans. Additionally, secure payment processing is integrated using Razorpay, supporting both one-time and recurring transactions.

The reading experience is designed for immersion and ease of use, featuring a two-page layout that mimics physical books. Users can smoothly navigate through pages with real-time progress tracking, highlight important text, take notes, and revisit them later for deeper study. The full-screen mode ensures a distraction-free reading environment. Akshar Vachan utilizes EPUB.js to render books interactively, allowing users to customize font sizes, switch between light and dark modes, and maintain the authentic formatting of religious texts. This ensures a seamless and adaptive reading experience across different devices.





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A standout feature of Akshar Vachan is its AI-driven text-to-speech (TTS) functionality, making religious texts more accessible to visually impaired users and those unfamiliar with certain scripts. Unlike basic TTS systems, this AI-powered feature synchronizes real-time text highlighting with speech synthesis, allowing users to follow along as they listen. Supporting multiple languages such as Gujarati, Hindi, and English, the TTS feature offers flexible playback controls, enabling users to pause, rewind, and adjust narration speed to suit their preferences. These enhancements create an inclusive platform for diverse audiences.

To improve engagement and content discovery, Akshar Vachan integrates AI-powered personalized recommendations. The AI analyzes reading behavior and preferences to suggest relevant books, helping users explore new scriptures and spiritual teachings effortlessly. The platform also introduces a "Favorites" section for quick access to frequently read books, reducing the need for repeated searches. Additionally, a "Popular Books" section dynamically updates based on trending reads and user engagement, guiding users toward widely appreciated texts. These features ensure users remain engaged and discover meaningful content tailored to their interests.

Further expanding its offerings, Akshar Vachan is developing an "Offline Download" feature, enabling users to access books without an internet connection, which is particularly beneficial for remote areas or travel. To make learning interactive, the platform introduces religious-themed crossword puzzles and word search games, fostering deeper engagement through gamification. Additionally, a "Reading Progress Tracker" visually represents a user's completion percentage, encouraging goal setting and consistent reading. These innovations make Akshar Vachan not just a digital library but a comprehensive, AI-enhanced ecosystem for exploring religious literature in an engaging and personalized manner.



Fig. 1 Feature Comparison of Digital Reading Platforms

The feature comparison of digital reading platforms demonstrates Akshar Vachan's superiority in providing an advanced and interactive reading experience, setting it apart from competitors such as Kindle, Google Play Books, Scribd, and Open Library. The platform stands out due to its AI-powered innovations, including AI Text-to-Speech (TTS) with real-time text highlighting, which enhances accessibility for visually impaired users and those unfamiliar with complex scripts. Unlike many existing platforms, Akshar Vachan integrates a multi-user profile system, similar to streaming services, allowing shared yet personalized reading experiences within families or organizations. Additionally, its AI-driven recommendation system ensures users receive book suggestions tailored to their reading habits, improving content discovery and engagement. While features like offline download capability are available on multiple platforms, Akshar Vachan is actively expanding its offerings with interactive elements such as puzzles and games, making learning more engaging. This in-depth analysis highlights Akshar Vachan's commitment to innovation,





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accessibility, and user-centric design, positioning it as a next-generation digital reading platform that bridges traditional scripture reading with modern technology.



Fig. 2 Akshar Vachan Level 0 Data Flow Diagram (DFD)

The Level 0 flowchart of Akshar Vachan provides a high-level overview of how user requests are processed within the system, from initiating an audio request to delivering the final output. The flow starts with the user interacting with the platform, where they can request an audio version of a book. The user is then prompted to select a book from the available collection, and if the book requires payment, the system redirects them to the payment gateway for transaction processing. Once the user completes their selection and payment (if applicable), the system processing unit takes over. It retrieves the necessary book data from the database and sends a request to the AI Text-to-Speech (TTS) API to generate an audio version of the book. Meanwhile, the payment gateway verifies and confirms the transaction, ensuring secure and seamless financial processing. The AI TTS API processes the text from the book and converts it into an audio file, which is then sent back to the system for final processing. The system ensures that the correct book is processed, formats the generated audio, and delivers it to the user through the platform. This structured approach ensures a smooth, automated workflow where users can access AI-generated audiobooks efficiently.

Additionally, the diagram highlights the integration of external entities, including the AI Text-to-Speech API for audio generation, the database for storing and retrieving book-related information, and the payment gateway for handling financial transactions securely. These interconnected components work together to enhance user experience, ensuring accessibility, personalization, and smooth transactions within Akshar Vachan.





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This Level 0 DFD effectively illustrates the core functionalities of Akshar Vachan, demonstrating how it leverages modern technologies to provide a seamless digital reading and listening experience for users.



Fig. 3 Akshar Vachan Level 1 Data Flow Diagram (DFD)

The Akshar Vachan Level 1 Data Flow Diagram (DFD) illustrates the platform's detailed workflow, covering User Authentication, Book Collection and Retrieval, Payment Processing, and Reading Experience while integrating User Data Management for storing preferences and interactions. Users start by signing up or logging in, followed by searching and selecting books for reading. If a book requires a purchase, the payment process is initiated, ensuring secure transactions via the payment gateway. The reading experience is enhanced with AI-powered Text-to-Speech, synchronized highlighting, and note-taking. The system efficiently manages user data, bookmarks, and preferences, ensuring a seamless and personalized digital reading experience through integrations with AI APIs, databases, and payment services.

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IV. EXPERIMENTAL RESULTS

Akshar Vachan is still under development, with results based on expected outcomes, usability testing, and projected performance improvements. The integration of AI-driven text-to-speech (TTS) with real-time text highlighting is expected to significantly enhance comprehension, particularly for users engaging with ancient religious texts in Sanskrit, Gujarati, and Hindi. Additionally, the multi-user profile system is projected to improve accessibility, allowing families and religious organizations to share accounts based on subscription plans. The inclusion of interactive puzzles, such as crossword and word search, is designed to increase user engagement by introducing gamification elements, which research suggests can improve information retention and comprehension.

Performance metrics indicate that the platform will achieve an optimized page load time of under 2 seconds, leveraging lazy loading and caching techniques to ensure smooth book rendering via EPUB.js, even for large digital granths. AI narration accuracy is projected to reach ~95%, utilizing Google TTS and Speech APIs, surpassing traditional eBook platforms that lack synchronized audio-visual reading experiences. Additionally, AI-powered personalized recommendations will help users discover books based on their reading history, further increasing engagement and retention. The integration of multi-user profiles, AI-driven narration, offline reading, and interactive features positions Akshar Vachan as a revolutionary digital reading solution tailored specifically for religious and spiritual literature.

To assess Akshar Vachan's impact on religious literature accessibility, a case study will be conducted to evaluate its benefits for elderly and visually impaired users, students, scholars, and religious institutions. The study will also explore how temples, spiritual organizations, and educational institutions leverage the platform to digitize and preserve ancient scriptures, making religious texts more widely accessible and interactive. The addition of features like offline reading, a reading progress tracker, and AI-driven recommendations ensures a seamless and engaging experience, positioning Akshar Vachan as a transformative solution for digital religious literature.

Feature	Akshar Vachan	Kindle	Google Play Books	Scribd
AI Text-to-Speech (TTS)	Yes (Multilingual, Real- time Highlighting)	X No (Basic VoiceView)	× No	🗙 No
Real-time Text Highlighting	Ves Yes	🗙 No	× No	X No
Interactive Puzzles (Gamification)	✓ Yes (Crosswords, Word Search)	🗙 No	× No	🗙 No
Multi-user Profiles (Netflix-style)	Ves Yes	× No	× No	× No
Offline Book Downloads	In Progress	Ves Yes	Ves Yes	Yes
AI-powered Book Recommendations	V Yes	× No	× No	× No
Payment Integration (Razorpay)	Yes	V Yes	Ves Yes	Yes

Table. 1 Comparison of Proposed and existing System

V. CONCLUSION

Akshar Vachan is designed to revolutionize digital religious reading by integrating AI-driven narration, interactive text highlighting, and an EPUB-based structured reading experience. Unlike traditional eBook platforms, which primarily cater to general and academic literature, Akshar Vachan is specifically built to enhance accessibility, engagement, and interactivity for religious and spiritual texts. The platform provides text-to-speech functionality, multi-user profile support, offline reading capabilities, and AI-driven recommendations, ensuring a seamless and enriched reading experience for devotees, scholars, and casual readers alike.





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The introduction of interactive puzzles, such as crossword and word search games, along with progress tracking features, fosters greater engagement and retention, making religious reading both educational and interactive. The Favorites option enhances personalization, allowing users to easily access frequently read scriptures. Meanwhile, offline downloads (in progress) will provide uninterrupted access to books, ensuring availability even in areas with limited internet connectivity.

Although still in development, Akshar Vachan aims to address major gaps in digital religious literature access, including limited AI integration, the absence of interactive reading tools, and the need for multilingual accessibility. Future enhancements will focus on expanding AI-powered narration support for additional languages beyond Gujarati, Hindi, and English, improving voice modulation and pronunciation accuracy, and developing AI-driven content summarization to provide concise chapter overviews and personalized book suggestions based on user behavior.

Additionally, the platform's role in preserving and digitizing religious texts will be strengthened through collaborations with temples, spiritual institutions, and scholars, ensuring that ancient scriptures remain accessible in a modern digital format. By continuously innovating with AI-driven features, interactive learning tools, and an optimized user experience, Akshar Vachan positions itself as a groundbreaking solution that transforms how religious texts are consumed, studied, and preserved in the digital age.

Akshar Vachan's AI-powered personalization and analytics will enable users to receive tailored recommendations, reading insights, and progress reports, ensuring a more immersive and user-centric experience. By leveraging machine learning algorithms, the platform will continuously refine its suggestions, helping readers discover new scriptures, commentaries, and related spiritual content based on their preferences. As digital transformation reshapes the way religious texts are accessed and studied, Akshar Vachan stands at the forefront of this shift, bridging the gap between tradition and technology. With its commitment to accessibility, engagement, and preservation, the platform is set to redefine the future of religious reading, making spiritual knowledge more inclusive, interactive, and widely available to global audiences.

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