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Luminabook AI: An Intelligent Literary Discovery and Author Empowerment Ecosystem

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Abstract - Digital book discovery is often fragmented across online marketplaces, author websites, publisher platforms, and literary event directories. This paper presents Lumina Book AI, an artificial intelligence-powered literary discovery and reading ecosystem designed to enhance book exploration, purchasing, and author visibility. The proposed platform integrates mood-based book discovery, semantic search, personalized recommendations, and a conversational AI reading assistant to help readers identify books based on their interests and preferences. It also provides forthcoming book recommendations, dedicated author and publisher profiles, external purchasing links, map-based bookstore discovery, and information about upcoming book fairs and literary expos. By connecting readers with books, authors, publishers, and literary events through a unified interface, the system aims to improve content discoverability and encourage engagement with reading culture. The proposed approach emphasizes reliable catalogue information, transparent release details, and responsible AI-assisted recommendations. Lumina Book AI seeks to transform conventional online book browsing into an intelligent, personalized, and community-oriented literary experience while creating greater digital visibility for emerging authors and publishing communities.

Key Words: Artificial intelligence, semantic search, book recommendation, author discovery, literary ecosystem, book fairs.

1.INTRODUCTION

The growth of digital technology has transformed the way people discover and purchase books. However, information about books, authors, publishers, upcoming releases, bookstores, and literary events is often scattered across different platforms. Lumina Book AI addresses this challenge by providing an intelligent, unified platform for book discovery, reading assistance, and purchasing.

The proposed system integrates artificial intelligence (AI) to deliver mood-based recommendations, semantic search, and personalized reading suggestions through an interactive AI chatbot. Its distinctive features include dedicated author and publisher profiles, recommendations for forthcoming books, map-based bookstore discovery, and information about upcoming book fairs and literary expos. By improving book discoverability and promoting emerging authors, Lumina Book AI aims to connect readers with literary works and the people behind them.

2. Body of Paper

The body of the paper describes the design, functionality, and major contributions of Lumina Book AI, an artificial intelligence-powered literary discovery and reading platform. The proposed system integrates intelligent book recommendations, semantic search, conversational reading assistance, and online purchasing pathways within a unified interface. It also provides dedicated author and publisher profiles, forthcoming book recommendations, map-based bookstore discovery, and information about upcoming book fairs and literary expos.

The system is organized into interconnected modules to simplify book discovery and improve accessibility to literary information. The AI recommendation module suggests books based on readers' interests, moods, and preferences, while the chatbot provides interactive reading assistance. The author and publisher modules improve the visibility of literary works, particularly those from emerging writers and publishing communities. Furthermore, the bookstore mapping and book-fair discovery modules connect digital book exploration with physical locations and literary events. By combining these capabilities, Lumina Book AI aims to create a more personalized and interconnected reading ecosystem. The following sections describe the proposed system, methodology, key modules, and expected contributions in detail.

A. Mood-Aware and Semantic Book Discovery

Readers can express the experience they want—such as reflective literary fiction, hopeful stories, dark fantasy, or a thoughtful science-fiction narrative. Semantic search extends discovery beyond exact title matching and can help users find books related by theme, topic, or story characteristics.

B. Conversational AI Reading Companion

The conversational AI chatbot enables users to discover books through natural-language interactions and personalized recommendations. It suggests books based on readers' interests, moods, genres, and preferred writing styles. Users can ask questions, explore related authors, compare book suggestions, and refine recommendations through follow-up conversations. The chatbot also provides reading guidance and explanations based on available book information. This feature enhances user engagement and creates an intelligent, interactive, and personalized book discovery experience..

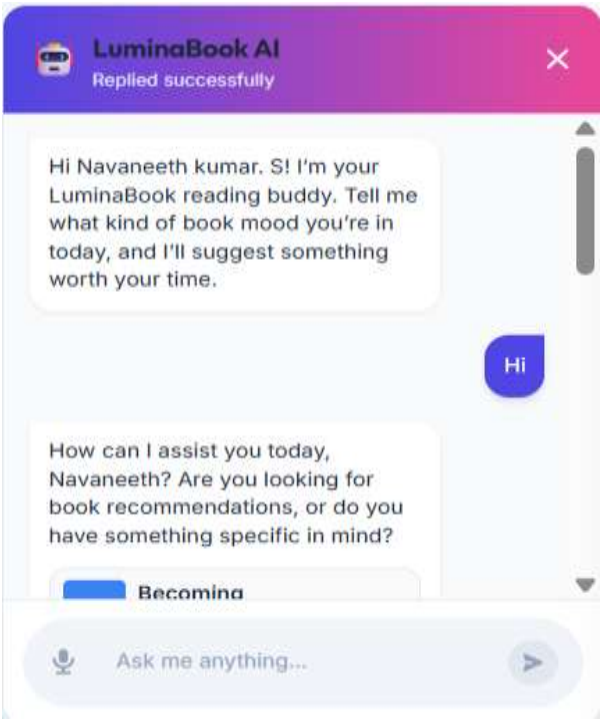


Fig -1: AI Reading Companion

C. Personalized Recommendations and Release Radar

Recommendations can reflect reader-selected interests and catalogue relationships. A release-awareness feature can highlight forthcoming titles and anticipated books when publication information is available, clearly identifying confirmed dates and uncertain or provisional information.

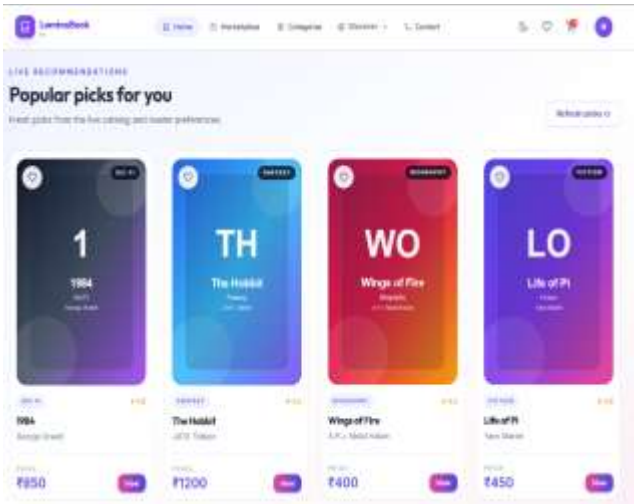


Fig -2: Personalized Recommendations

D. Author Spotlight and Literary Identity Pages

Dedicated author pages are designed to give writers a visible, organized presence beyond a single product listing. Profiles may include biographies, genres, published works, official links, and announcements when verified. This feature supports the discovery of emerging voices as well as established authors and helps readers explore an author's broader body of work.

E. Publisher Discovery and Catalogue Profiles

Publisher pages can present a publisher's focus, catalogue, official website, and relevant books. This creates a direct discovery path between readers, publishing houses, and the works they bring to market.

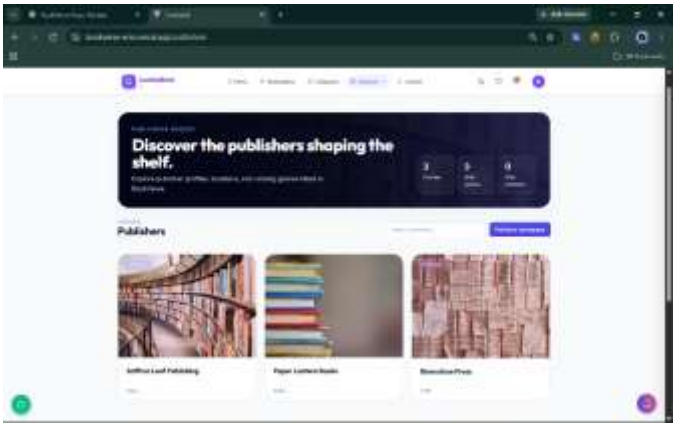


Fig -3: Publishers

F. Book Marketplace and Purchase Pathways

Book cards can show available title, author, category, rating, and price information alongside external retailer links. This connects discovery to purchase while making clear that pricing, stock, delivery, and checkout are controlled by the linked seller unless a direct commerce integration is implemented.

G. Map-Based Bookshop and Literary Place Discovery

A location-aware directory can help readers explore bookshops, publisher locations, and other relevant literary places. Accuracy depends on validated location records and the configured mapping service; the interface should avoid presenting unverified locations as confirmed.

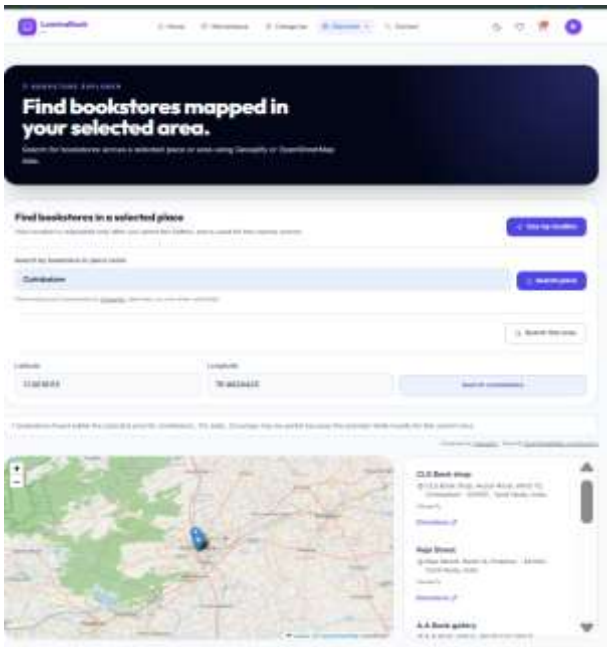


Fig -4: Map

H. Book Expo, Fair, and Literary Event Navigator

The event module organizes upcoming, ongoing, and completed book fairs and expos. Users can search by event or city and review dates, venue status, and related organizer information. By connecting readers with real-world literary gatherings, the feature supports author-reader interaction, publisher discovery, and participation in reading culture.

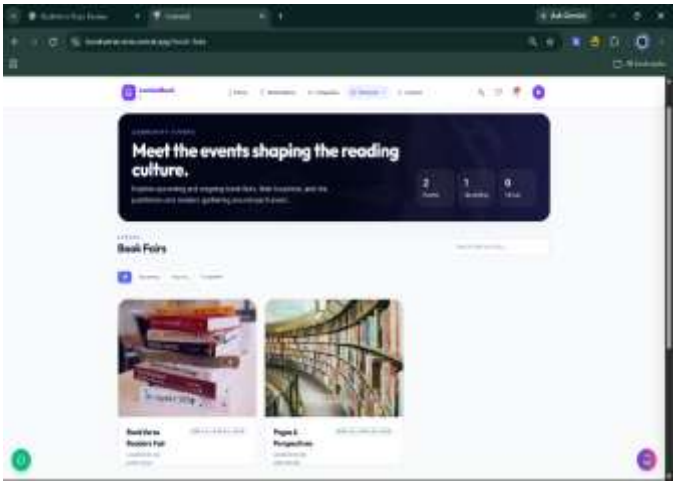


Fig- 5: Book Expo, Fair, and Literary Event Navigator

I. Trust, Data Quality, and Content Administration

Catalogue and event information should be maintained through clear update procedures, source references, duplicate checks, and verification of official links. User-facing labels should distinguish confirmed details from pending announcements or AI-generated suggestions.

3. CONCLUSIONS

LuminaBook AI is proposed as an intelligent literary discovery and author empowerment ecosystem that brings together mood-based search, semantic discovery, a conversational reading assistant, personalized recommendations, forthcoming-release awareness, book purchasing pathways, author and publisher profiles, map-based shop discovery, and literary event navigation. Its defining ambition is to make books easier to discover while giving authors, publishers, bookshops, and literary gatherings a more connected place in the reader's journey. By combining responsible AI assistance with structured and verifiable information, the platform can support a richer and more inclusive digital reading culture. Future work should focus on validating the AI features, improving catalogue and event integrations, protecting user data, and assessing the platform with readers and literary stakeholders.

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