Do Androids Dream of Digital Libraries?

Artificial intelligence model applied to learning environments

Artificial intelligence model applied to learning environments

Combines traditional reading values with technology and various learning methodologies.

Offers direct access to reading materials for teachers and students without intermediaries.

Features a user-friendly, personalized interface promoting a simple, focus-on-learning experience.

Encourages lateral and immersive, distraction-free reading to enhance research skills and deepen reading engagement.

Artificial intelligence model applied to learning environments

Includes universal accessibility in digital libraries, with audio playback and adaptable designs for inclusivity.

Aims to enhance the human-centered learning experience with tools for in-class readings, personalized exploration, assignments, and progress monitoring.

Allows for the personalization of reading experiences, adapting to the preferences and lifestyles of users, and fostering interaction between students and educators.

At the university

French universities enhance library excellence by using advanced technology for academics and students, aiming to improve knowledge access and promote legal innovation.
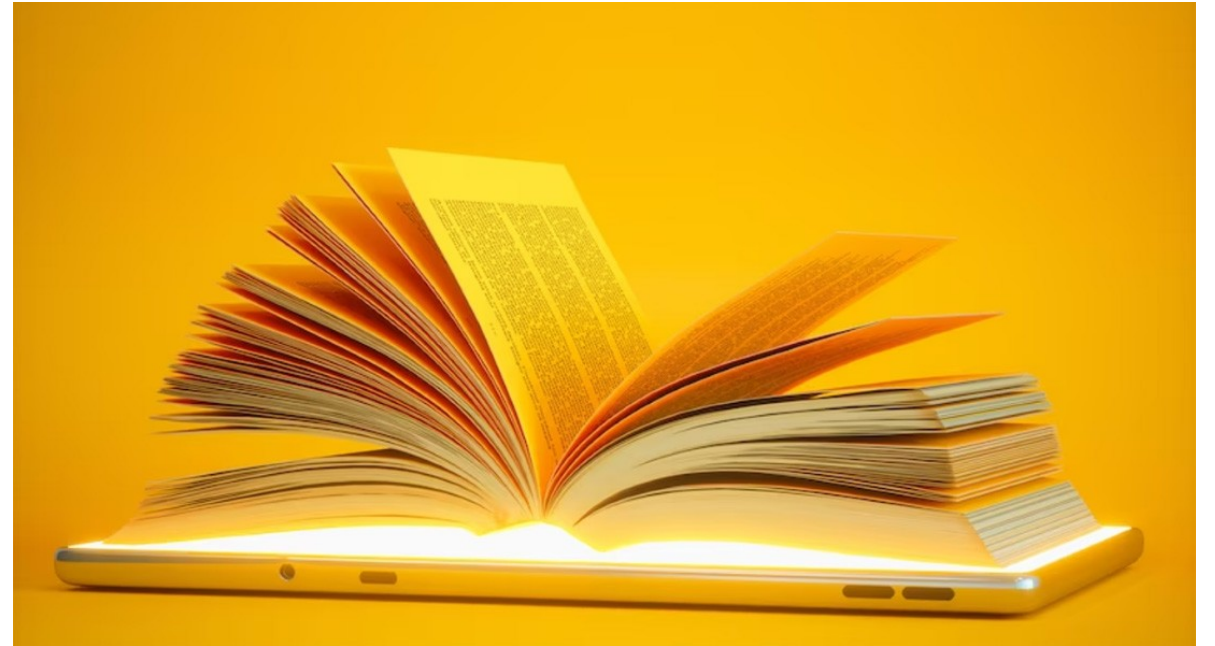
At the university

CYBERLIBRIS

Cyberlibris, created in 2001, revolutionized the French university digital library scene, introducing electronic book access and impacting millions.

Cyberlibris has evolved, incorporating technologies like ScholarVox for improved search capabilities tailored to user needs, including specific reading lists.
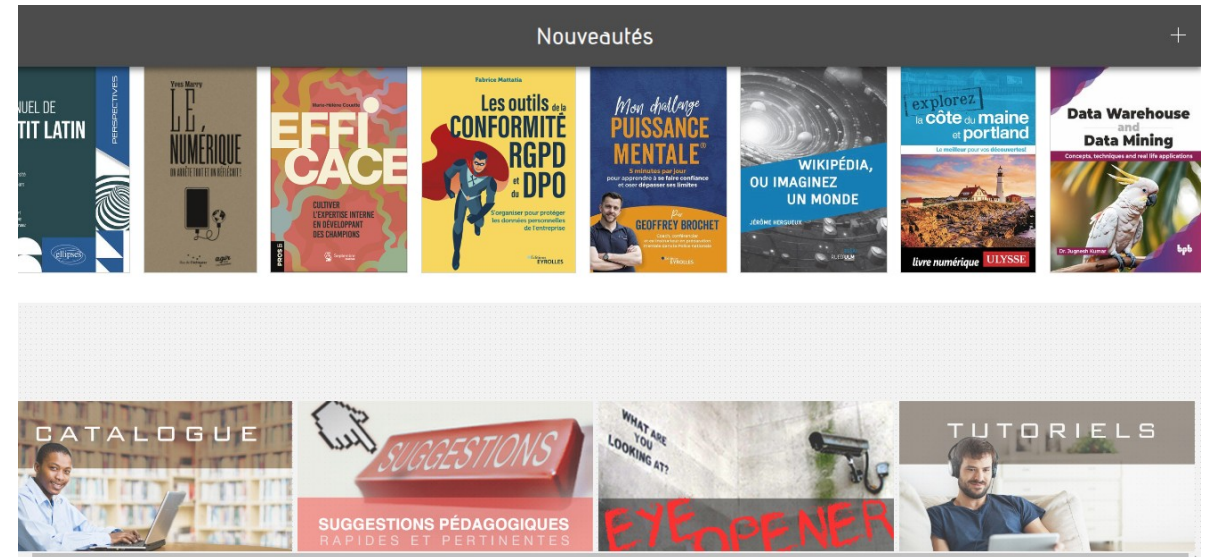
At the university

Features enable customization of the reading experience (e.g., text-to-speech, font choice, audio image descriptions), aiding students, including those with disabilities.

The platform's intelligent models and design facilitate easy organization of academic work, offering formats suited to student needs and making required readings easily accessible.

At the university

ScholarVox benefits from continuous learning, improving with more use and data from its network of over 1200 digital libraries in 40 countries, including expansion to school and public libraries worldwide.

At the school

Generative AI impresses for creating content like conversations, stories, images, and music.

We must put focus is shifting towards integrating productive AI into educational contexts.

At the school

Biblius is an e-book lending platform for school libraries in Quebec, offering a wide range of e-books for students and teachers.

99.6% of Quebec's public school students have access to Biblius, with over 700,000 digital content loans in the 2022-2023 school year.

At the school

Biblius is user-friendly, facilitating easy access to e-books and enhancing the teaching and learning experience, and supports teachers by integrating e-books into the curriculum, benefiting lesson planning and student engagement.

At the school

A notable feature of Biblius is FROG (FRee your cOGnition), digital books in an enriched EPUB format, designed by speech therapists and education professionals, based on neuroscience research, for students with disabilities or learning adaptations or difficulties, and particularly for DYS students (dyslexia, dyspraxia, dysorthography)

Les livres
FROG

Livres enrichis

Biblius results

- Increased access to books: Expands access to a vast collection of e-books, encouraging independent reading and critical thinking.

- Support for special learning needs: E-books help students with disabilities or learning difficulties, such as dyslexia, by allowing customizable settings such as font size and background color.

- Multilingual education: Including books in different languages meets the needs of newly arrived students and encourages multilingualism.

- Flexible Learning Opportunities: Allows students to access e-books outside of school hours, encouraging self-directed learning and research.

- Extended Teaching Resources: Provides teachers with a wealth of instructional resources, such as interactive and multimedia content, which enhances teaching methods and promotes student engagement.
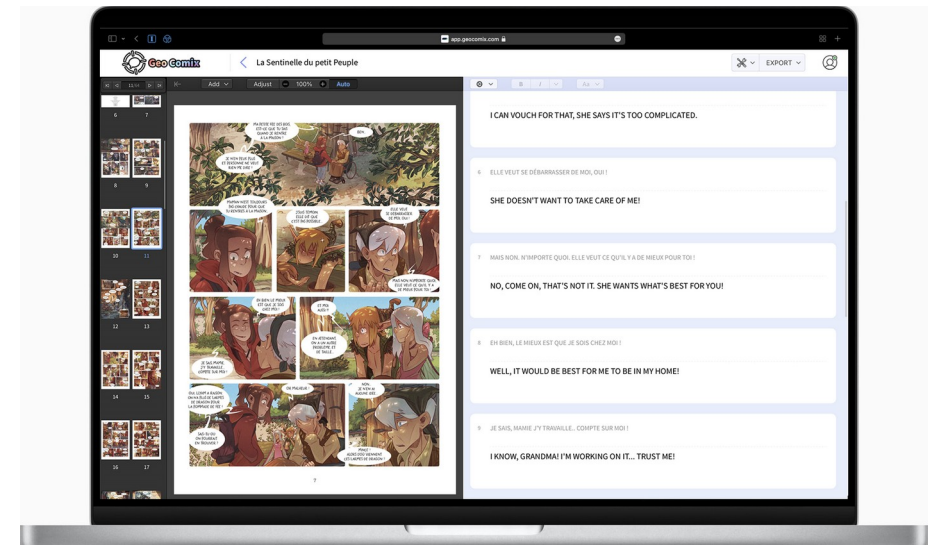
At the comic

- Comix AI and the University of La Rochelle are collaborating on an R&D project.

- They developed ComixSuite, an AI tool for comic, manga, and webtoon production and development.

At the comic

- ComixSuite's first version offers translation and accessibility services for comic, manga or webtoon.

- It can extract and translate text, including onomatopoeia and text in bubble shapes, from comics.

At the comic

Accessibility features include text-to-speech, navigation systems, and text modification for readability.

The technology also helps libraries index comics for better searchability, including both old and new publications.

At the comic

Future development stages include Indexing, Storyboarding, and Reading UX, aiming to enhance image reading.

The Dilemma

Information professionals are impressed by the potential of AI to change reading and information management.

AI can help manage the vast amounts of data and information (big data) we deal with today.

Society currently faces issues with information overload (infoxication), infodemics, and fake news, which AI could potentially exacerbate.

The Dilemma

Byung-Chul Han warns of the dangers posed by these new information-related threats

- "Information alone does not light up the world. It can even darken it. Beyond a certain point, information is not informative, but deformative".

- Hypercommunication smooths, softens, and ultimately standardizes everything."

- "It is our communication and information frenzy that makes things disappear."

- "Everything that is hurried is doomed to disappear."
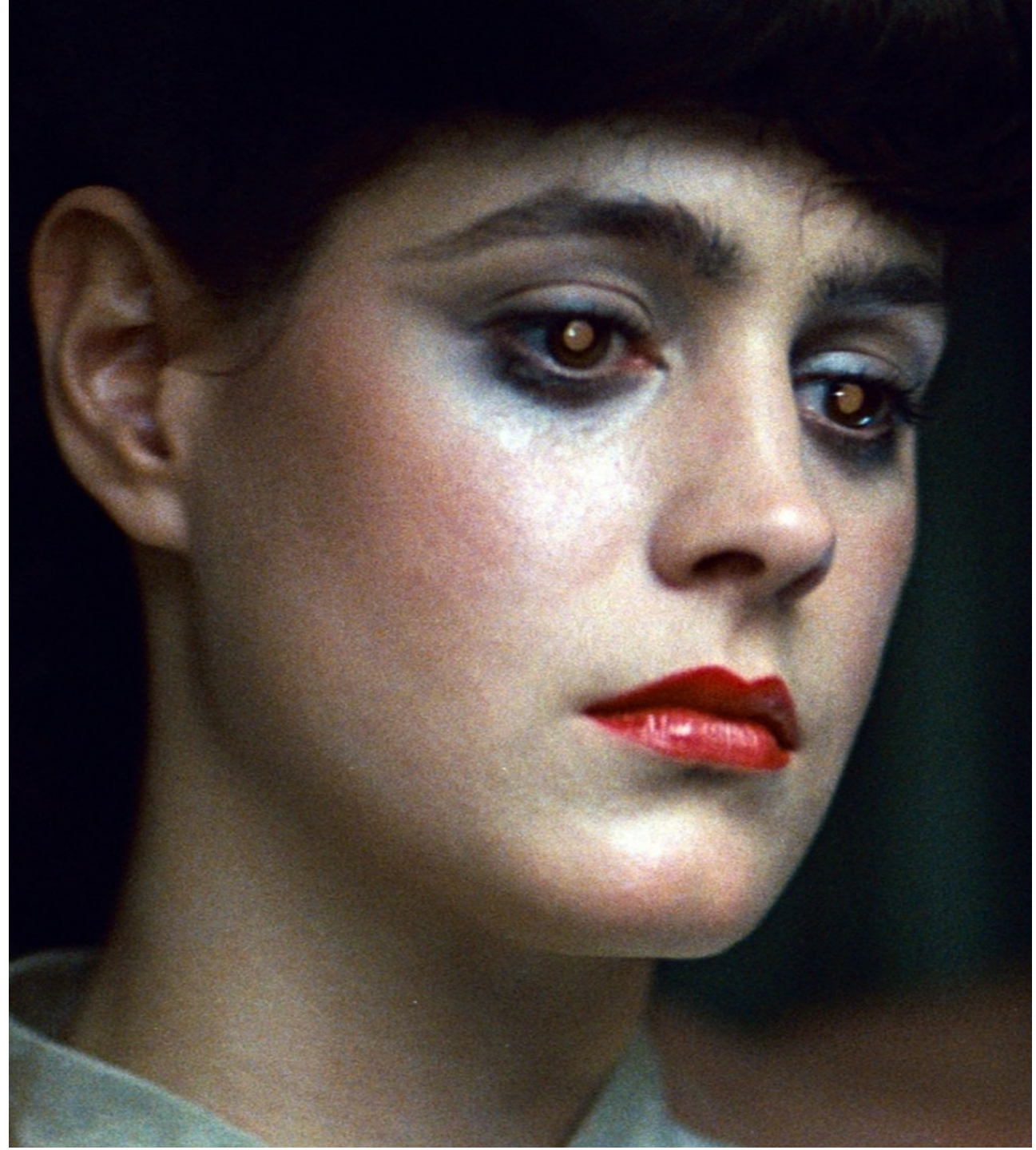
The Dilemma

- Librarians have an ethical and moral role in ensuring these dangers do not materialize, especially concerning AI.

- Examples presented involve productive AI in learning environments and libraries, which is distinct from generative AI.

- Generative AI poses a significant threat to the book industry, libraries, and copyright, by potentially using creators' work without permission.

The Dilemma

Librarians should support AI that respects copyright and enhances human life, managing the digital libraries of the future.

We have a role to play.

Complete Article

English

Español

Thanks!