TRANSNATIONAL HIGHER EDUCATION CULTURES AND GENERATIVE AI

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ABSTRACT

This paper is a consolidated report on the AI tools which are useful in Higher Education which encourages the Learners to build their own space of learning using recent AI tools like Grammarly, Nation, ChatGPT, Google classroom, Canva etc. which enhance learning, simplify lesson planning, and provide intelligent approaches to student assessment, making education more enjoyable and effective.

Keywords: Artificial Intelligence, ChatGPT, Google Classroom, Grammarly, Canva, Nation etc.

1. INTRODUCTION

In the 21st century, technology is becoming essential in transforming various sectors, and education is no different. Higher education institutions around the globe, including those in India, are utilizing Artificial Intelligence (AI) tools to improve learning experiences, optimize administrative tasks, and enhance research capabilities. AI-driven solutions are changing traditional educational models, making them more personalized, accessible, and efficient. The adoption of AI tools in higher education is not just a passing trend; it is a necessity for institutions aiming to remain competitive and relevant in a fast-changing academic and technological environment.

Enhancing Teaching and Learning:

AI tools have greatly enhanced the teaching and learning experience by offering personalized and adaptive education. Intelligent tutoring systems, virtual assistants, and AI-driven learning platforms create customized learning experiences that cater to each student's unique strengths and weaknesses. These tools assess student performance data and recommend suitable study materials, aiding learners in understanding complex concepts more effectively. Additionally, AI-powered chatbots help Learners with their questions, lightening the load for faculty members and providing ongoing support beyond classroom hours.

Enhancing Student Support and Career Development:

The integration of AI into student support services has brought significant improvements. AI-driven career guidance platforms assess Learners' skills, interests, and academic performance to recommend appropriate career paths and job opportunities. Tools for building resumes and AI-based mock interview platforms help Learners prepare for the job market, boosting their chances of employment. Additionally, AI chatbots and virtual counsellors offer mental health support and counselling, making student welfare services more accessible and responsive. By connecting education with employment, AI tools play a crucial role in the overall development of Learners and their smooth transition into professional careers.

2. APPLICATION OF AI TOOLS IN EDUCATION

Below are some of the top 12 AI tools that are used for education in enhancing the learning experience for both Learners and Tutors globally:

1. Grammarly - The tool enables users to create errorless assignments together with study materials.

It is an educational tool that improves writing quality writing by using proper grammar, punctuation, clarity, and tone. It uses advance algorithms that suggests, grammarly sentences and provides professional writing skills.

Attributes

- AI-driven modification for grammar, style, and punctuation.
- It helps in identifying plagiarism.
- Fluency adjustment recommendations for context-appropriate writing.

Scope

- Learners looking to improve their grammar and style.
- Tutors offering constructive feedback on assignments.

Pros & Cons

Pros	Cons
Real-time grammar and style suggestions	Premium version can be costly
Easy-to-use interface	Requires internet access
Helps avoid plagiarism	Advanced features limited to paid plans

2. Notion – It is an AI tool for Task management and Collaborative note taking.

With Notion users can create diverse productivity content while managing collaborative tasks and projects and their associated notes. The adjustable workspace of Notion accommodates Learners and Tutors who want to optimize their work processes and increase productivity. Users can leverage this AI tool for education purposes because it both manages their study resources and boosts their educational productivity.

Attributes

- It provides various databases and templates for note taking.
- Task management and project and functionalities.
- Easy association with sharing options.

Scope

- Learners who need to organize their study materials.
- Tutors who are managing tasks and class projects.

Pros & Cons

Pros	Cons
Highly customizable	May have a learning curve
Excellent for collaboration	Can feel cluttered for complex projects
Integrates with other tools	Some advanced features are paid

3. ChatGPT - It is an AI tool used for Informal AI and investigation Support

ChatGPT is a sophisticated AI tool designed for both Learners and educators, providing assistance with research, brainstorming, writing and actual query responses. It acts as a valuable resource for Tutors to enrich classroom discussions and deliver prompt answers.

Attributes

- Informal AI for effective query processing.
- Support with writing and investigation tasks.
- Accessible on both mobile and web.

Scope

- Instant query processing.
- Generating content and Brainstorming.

Pros & Cons

Pros	Cons
Quick, conversational responses	May need verification for complex topics
Easy to access	Some responses lack depth
Adaptable to different needs	Internet access required

4. Google Classroom – This AI tool used for Managing the Classroom.

It simplifies the process of creating courses, assigning tasks, and facilitating communication. This is the most popular tools for educators, it serves as a central platform for grading learners and organizing lessons submissions.

Attributes

- Automated monitoring and tracking of assignments
- Combined with Google Drive for storing documents
- Quick communication among Tutors and Learners

Scope

- Streamlined classroom management
- Paper-free assignment management

Pros and Cons

Pros	Cons
User-friendly interface	Limited advanced analytics
Smooth Google ecosystem integration	Requires internet connectivity

5. Turnitin is the top choice for Learners and educators looking to ensure novelty in academic work. It is a sophisticated AI technology relate submissions to extensive databases, effectively detecting any plagiarized data.

Attributes

- Comprehensive infringement checks
- AI-powered rating insights
- Compatibility with major Learning Management Systems (LMS)

Scope

- Combating academic fraudulence
- Offering in-depth feedback writing

Pros and Cons

Pros	Cons
Excellent for detecting plagiarism	Subscription fees can be high for smaller institutions
Helps improve writing skills	Limited offline functionality

6. Cognii – This tool is used for AI Lecturing and Evaluation

It provides an informal AI virtual assistant designed to enhance individual learning and formative evaluation for Learners. It allows for open-response query, delivers quick feedback, and adjusts to the requirement of learners, framing it excellent for boosting engagement and understanding.

Attributes

- AI-powered individual tutoring for Learners.
- Quick response on open-ended queries.
- Facilitates adaptive studying and evaluations.
- Applicable for higher education and PUC.

Scope

- Customized teaching and evaluation in education.
- Organizations dedicated to changing learning solutions.

Pros & Cons

Pros	Cons
Real-time, personalized feedback	Initial setup may require training
Enhances engagement with interactive learning	Pricing may vary based on institutional needs
Customizable to different learning goals	Limited to supported educational programs

7. Khanmigo – It is an AI Chatbot which provides Educational Assistance

Khanmigo, created by Khan Academy, acts as an educational AI chatbot that offers individual learning and clarifications, helping Learners with immediate responses and

tailored support across various subjects. It stands out as sole top free AI resources for Learners, seamlessly merged into the Khan Academy platform.

Attributes

- AI-driven learning and clarifications.

- Interactive and engaging conversations to enhance understanding.

- Addresses a broad spectrum of academic topics and subjects.

Scope

- Learners looking for quick clarifications and learning support.

- Tutors in need of supplementary tools for classroom instruction.

Pros & Cons

Pros	Cons
Instant, conversational tutoring	Limited scope beyond Khan Academy topics
Engaging user interactions	Requires an internet connection
Integrates with Khan Academy content	Availability may be restricted by region

8. Canva – This AI tool used for creating Innovative Academic Content

It is a user-friendly design platform and sole leading AI applications for academics, enabling Learners and Tutors to craft captivating visuals, infographics and presentations. Its mouse-driven editor makes it easy for users to create professional-quality materials without any hassle.

Attributes

- Easy-to-use drag-and-drop design interface.

- A wide range of frameworks for infographics and presentations.

- Cooperating tools for team projects.

Scope

- Designing academic presentations and flyers.

- Developing videos for learning.

Pros & Cons

Pros	Cons
User-friendly interface	Premium elements may require payment
Thousands of templates	Some customization limitations
Ideal for non-designers	Internet connection needed

9. Gradescope – This AI tool is used for self-acting Feedback and Grading.

It is a dedicated AI tool designed for educators to streamline grading, provide feedback, and maintain consistent assessments, ultimately saving precious time.

Attributes

- Automated evaluation of exams for grading.

- Quick response and analytics.

- Compatible with various file types and query formats.

Scope

- Educators looking to automate their grading tasks.

- Delivering comprehensive feedback in an efficient manner.

Pros & Cons

Pros	Cons
Saves grading time	Limited to educational institutions
Offers detailed analytics	May require integration setup
Consistent feedback	Some features may be restricted to premium plans

10. QuillBot – It is an AI tool used for summarizing Content and Paraphrasing.

It is an AI-based writing subordinate that specializes in rephrasing and summarizing text, making it an essential tool for Learners who want to enhance their writing skills or grasp intricate materials.

Attributes

- AI-powered summarization and paraphrasing.

- Tools for improving style and grammar.

- Compatibility with various writing platforms.

Scope

- Learners who need to simplify difficult content.

- Writers aiming to boost clarity and readability.

Pros & Cons

Pros	Cons
Effective paraphrasing	Free plan is limited in features
Easy to use	Premium features require payment
Integrates with writing tools	May need internet connection

11.   MagicSchool.ai – It is an AI tool used for Streamlining Academic Tasks.

It leverages AI to support tutors in creating engaging and tailored educational materials, such as quizzes, teaching plans, and more. By automating teaching planning, grading, and administrative tasks. It allows Tutors to save valuable time.

Attributes

- AI-created quizzes and teaching plans.
- Tailorable academic content.
- User-friendly interface for educators.

Scope

- Developing unique teaching resources.
- Creating academic quizzes.

Pros & Cons

Pros	Cons
Saves time on lesson prep	Customization may be limited
Easy-to-navigate platform	May need premium plan for advanced features

12.   Khan Academy – It is an AI tool used for High-Quality Learning Materials

It offers a wealth of free educational materials and AI tools for Learners, spanning a diverse array of subjects. Associated with exercises and instructional visual-aids, it serves as an invaluable resource for both learners and tutors.

Attributes

- Free tutorials and engaging content.
- Includes multiple subjects and grade levels.
- Allows Learners to track their progress.

Scope

- Learners who prefer to learn at their own pace.
- Tutors looking to enhance classroom materials.

Pros & Cons

Pros	Cons
Completely free	Some content may not be region-specific
High-quality instructional videos	Requires internet access
Progress tracking	Limited offline access

3. Use of AI tools by Tutors in the Classroom

AI tools can assist Tutors in saving time, enhancing their teaching methods, and making learning more enjoyable. Here are some ways to implement them:

1. **Personalized Learning:** Tailor lessons and assignments to meet the unique needs of each student with resources like Khan Academy.

2. **Automate Grading:** Utilize platforms such as Gradescope to efficiently grade quizzes and assignments.

3. **Interactive Lessons:** Capture Learners' attention with engaging quizzes and games through tools like Kahoot!.

4. **Create Materials:** Design presentations, worksheets, and study guides using tools like Canva.

5. **Instant Feedback:** Provide prompt feedback on student work with AI platforms like Turnitin.

6. **Track Progress:** Keep an eye on student performance using dashboards available in tools like Google Classroom.

7. **Special Needs Support:** Assist Learners with disabilities by employing text-to-speech and video technologies.

4. CONCLUSION

AI academic tools are transforming the way Tutors and Learners engage with learning and instruction. The platforms mentioned here are among the best artificial intelligence-based solutions that enhance learning, simplify teaching planning, and provide intelligent approaches to student evaluation, making education more enjoyable and effective. By creating tools that cater to the unique needs of learners and educators, we can achieve better outcomes. However, these learning software solutions also have some drawbacks, such as inaccuracies in content, a lack of personal interaction, and occasional errors.

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