



EXPLORING THE IMPACT OF AI on Education and Leadership

WHITEPAPER



**Navigating the Impact
of AI in Education and
Leadership**



**Harnessing AI's
Potential in Education
and Beyond**



**AI Tools Reshaping
the Landscape of
Education**

Exploring the Impact of AI on Education and Leadership

In the rapidly evolving landscape of artificial intelligence (AI), the intersection of education and leadership has become a topic of increasing importance.

This article delves into the multifaceted implications of AI in education, considering its potential benefits, challenges, and the evolving role of educators and leaders. As we navigate this dynamic landscape, it's essential to examine key aspects such as data privacy, AI platforms, assessment methodologies, curriculum design, and the distinct capabilities that humans possess in contrast to AI.

Data Privacy and AI Development: Data privacy stands as a significant concern within the AI landscape. Recent developments emphasise the importance of safeguarding personal information and ensuring privacy in AI-driven systems. The evolution of AI platforms, such as ChatGPT, showcases the capabilities of AI engines to generate content with increasing accuracy. This includes functions like auto-correction, which aids in creating coherent and accurate content efficiently. While AI tools like Gamma Dot App demonstrate the potential for streamlined content generation, it's vital to recognise that AI is still in its infancy, and deeper analysis and validation remain crucial. It is essential that school leaders have open discussions with staff and the wider learning community about how they view AI in their context. As the capability grows it is increasingly important to review expectations for teachers and students.

AI Platforms and Their Functionality: AI platforms like ChatGPT, powered by OpenAI, and Google Bard highlight AI's diverse capabilities. These platforms generate responses and exhibit learning mechanisms through user interactions. ChatGPT 3.5 and ChatGPT 4.0, for instance, provide users the opportunity to experiment with AI-generated content and even incorporate plugins for added functionalities. The integration of AI into various applications, from writing assistance to generating personalised content, underscores AI's increasing pervasiveness in our daily lives. This will continue to evolve and eventually that specific talk about "AI" will fade as it will become more integrated into tools that are already commonplace. A good example of this is the recent release of Microsoft's Co-Pilot in Windows 11.

Shaping Assessment and Curriculum: The education sector is experiencing a paradigm shift due to AI's influence on assessment methodologies and curriculum design. Emphasis on signposting and progression becomes paramount as educators seek effective ways to gauge student achievement. Micro-credentialing emerges as a compelling approach, enabling the accumulation of smaller achievements towards larger competencies. "Post-assessment assessment"—a term coined to qualify and validate assessment outcomes—underlines the importance of human judgment in the evaluation process. This reflects a balanced approach where AI complements human expertise rather than replacing it. However, this places a significant workload on teachers, particularly where external assessments are in the form of reports and portfolios.

The Human Element in Education: A fundamental question arises: What defines the essence of human contributions in education? As AI learns languages and acquires knowledge autonomously, educators must redefine their roles to emphasise the unique attributes humans bring to the table. The authenticity of learning experiences and the cultivation of skills that AI cannot replicate

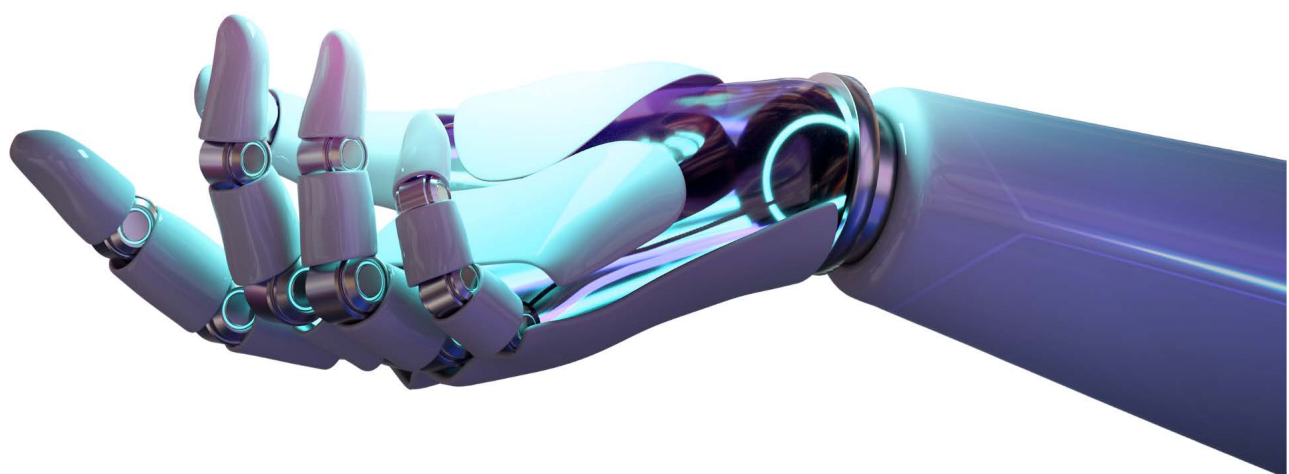


become central to curriculum design. While AI may excel in many areas, the nuances of human understanding, empathy, and creativity remain pivotal in shaping future generations. This impacts curriculum design and the perspective that must be taken as a result. Approaching tasks by asking “what can AI not” do may be a useful lens for evaluation of what will provide meaning for learners.

Balancing AI Advancements with Ethical Considerations: The potential of AI to create undetectable, AI-generated content raises ethical questions surrounding authenticity and accountability. It's imperative to approach AI implementation with checks and balances that promote transparency and honest engagement. Relying solely on AI to produce content may compromise educational integrity. Instead, educators should explore AI as a tool to enhance, rather than replace, human ingenuity. There is no silver bullet in this space, and as AI evolves, an agile approach must be taken to assessment.

Future Prospects: AI's trajectory in education and leadership is marked by both promise and challenge. It's clear that AI will continue to evolve and permeate various aspects of our lives. However, it's crucial to approach this evolution with a critical eye, ensuring that AI aligns with educational values and ethical principles. As AI becomes more integrated into educational ecosystems, educators and leaders must remain vigilant in their commitment to quality, authenticity, and the holistic development of learners.

The fusion of AI and education opens doors to transformative possibilities. From streamlining content creation to redefining assessment strategies, AI's impact is undeniable. Yet, as we embrace these advancements, we must recognise that AI's power lies in its ability to complement human capabilities, not replace them. The ongoing dialogue between technology and pedagogy should prioritise authenticity, ethics, and the cultivation of skills that define us as humans. By navigating this complex terrain thoughtfully, educators and leaders can harness AI's potential while safeguarding the essence of education itself.



Navigating the Impact of AI in Education and Leadership

The rapidly advancing realm of artificial intelligence (AI) is reshaping education and leadership dynamics. This article explores the multifaceted implications of AI within these domains, delving into the opportunities, challenges, and strategies for effective integration. From deciphering the relevance of tangible skills in an AI-driven future to fostering transparency and ethical considerations, the article addresses critical aspects that educational leaders need to comprehend and navigate.

The AI Revolution: Skills and Tangible Outcomes

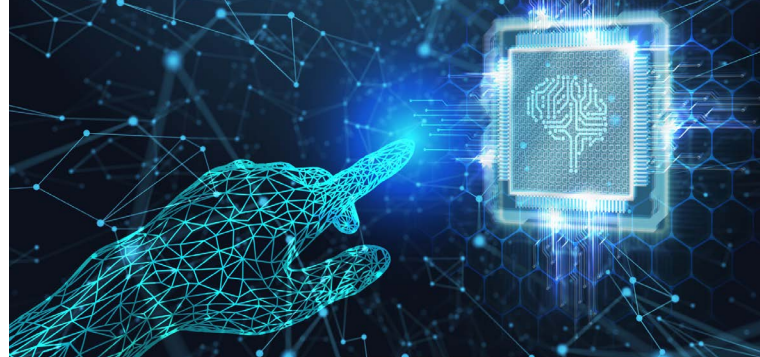
Data As AI capabilities surge, educators must grapple with the question of what skills will remain valuable in the evolving landscape. Notably, AI's prowess in tasks such as mapping proteins serves as a remarkable example of its transformative potential. This contrasts with traditional methods, revealing the profound impact AI can have on complex scientific endeavours. Consequently, educators and leaders must identify the tangible skills that will endure in the coming years and consider how to best equip learners for an AI-imbued world.

Engaging the Community: AI's Implications for the Workforce

Engaging with the community becomes paramount as AI's influence extends beyond the classroom. By initiating conversations with parents, employees, and community members, educational institutions can gain insights into the changing expectations and skills demanded by the workforce. The dialogue provides valuable context for curriculum design, ensuring educational pathways align with the shifting landscape of careers and industries influenced by AI.

Pioneering Leadership: Practical Steps in AI Integration

For senior leaders in educational institutions, taking proactive steps in AI integration is essential. Here are several practical actions to consider:



1 Familiarise with AI Technology

- Engage with AI technology and complete relevant courses to demystify its applications.
- Explore platforms like Microsoft's generative AI course and Google's AI training resources.

2 Prioritise Data Privacy and Security

- Regularly assess data security protocols to prevent breaches and unauthorized access.
- Implement two-factor or multi-factor authentication to enhance cybersecurity measures.

3 Explicit AI Policy

- Develop policies explicitly addressing AI usage in assessment, curriculum, and other contexts.
- Emphasise transparency and ethical considerations in AI applications within educational settings.

4 Engage Students in AI Education

- Introduce AI courses or clubs to educate students about AI's capabilities and potential.
- Foster student awareness of AI-related issues, encouraging informed digital citizenship.

5 Benchmarking AI Performance

- Establish AI benchmarks for various tasks, including assessment question responses.
- Utilize AI as a tool to gauge student progress and foster deeper understanding.

6 Re-evaluate Key Competencies

- Reflect on how AI influences key competencies and whether they remain relevant.
- Realign key competencies to encompass AI literacy and critical thinking in the digital age.

Adapting Key Competencies: The AI Lens

The integration of AI compels educators to reevaluate key competencies through an AI-focused lens. Traditional competencies must evolve to encompass AI literacy, critical thinking, and the ability to navigate an increasingly digital world. Adapting these competencies ensures learners are equipped to harness AI's potential effectively while retaining the unique qualities that make humans distinct.

Navigating the Future: Harnessing AI's Potential in Education and Beyond

Unveiling AI's Power: Data Analysis and Insights

AI's impact extends beyond the surface, particularly evident in the realm of data analysis. Recent developments have unleashed the potential for deeper insights and evidence-based decision-making. Harnessing AI's capabilities for data analysis promises a revolutionary way to interpret and utilize school data, potentially enhancing interventions and outcomes for students.

Continuous Evolution: Adapting Policies and Mechanisms

In the fast-paced world of AI, policies must keep up with the evolving landscape. A crucial consideration is the need for dynamic policies that can be reviewed and refined swiftly. As AI applications evolve, educational institutions must adapt their policies to ensure ethical and effective utilization of AI tools. Balancing innovation with ethical considerations remains pivotal.

The "Kea Syndrome": Prioritising Essential Aspects

Amidst the allure of AI's possibilities, educators must guard against the "Kea syndrome." This syndrome refers to the tendency to be captivated by shiny technological objects while losing sight of the core principles of education—strong relationships, empathy, and understanding students' individual needs. While AI offers immense potential, it should augment, not replace, these fundamental aspects of effective teaching and leadership.

AI-Driven Decision-Making: Enhancing Administrative Functions

AI's role in decision-making extends beyond the classroom to administrative functions. Integrating AI tools like co-pilot into administrative workflows can streamline tasks and boost efficiency. The power of AI to automate routine processes holds the potential to free up time for educators and administrators, allowing them to focus on strategic planning and impactful interactions.

Privacy and Security: The Enterprise Version

Addressing privacy concerns associated with AI usage is paramount. The advent of the Enterprise version from Privacy at OpenAI introduces a game-changing solution. Schools can now establish their AI "bubble," where data inputs and outputs remain within a secure domain. This innovation ensures that sensitive data remains confidential, mitigating potential risks of public exposure. As discussed earlier as AI becomes more integrated into commonplace tools (such as Word, Excel), checks should be conducted to ensure that data is safe and only accessible to the owners of such data.

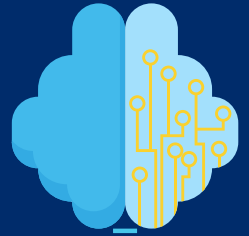
Ethical Reflections and Personification

As AI gains prominence, ethical considerations come to the forefront. Personifying AI and attributing human-like qualities can lead to misunderstandings. Educators and leaders must recognize AI's role as a tool and remain vigilant against overly anthropomorphizing it. Maintaining a balanced perspective ensures that ethical boundaries are upheld while leveraging AI's capabilities.

Balancing Connections and Whakapapa

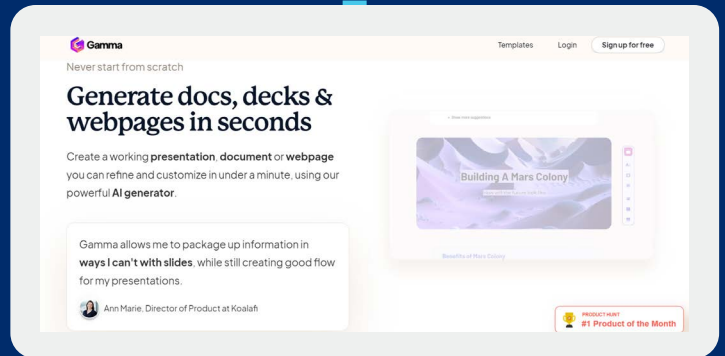
Amid AI's integration, educators must reflect on the impact of technology on human connections. While AI offers efficiency, it should not overshadow the importance of authentic relationships in education. A conscious effort to strike a balance between technological advancements and human connections is vital.

AI Tools Reshaping the Landscape of Education

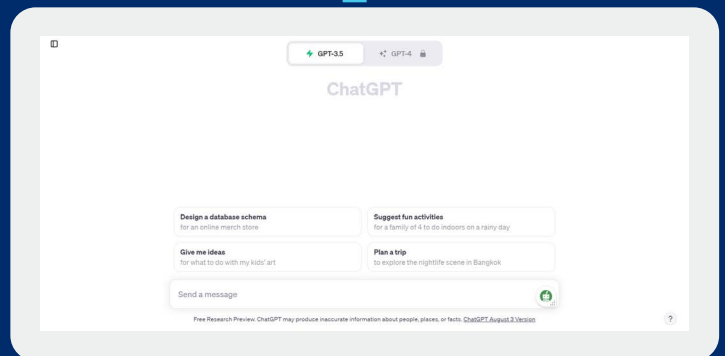


In a continuously changing world, education has always been dynamic, often prompting to transform mediums of learning and teaching to accommodate the requirements of students and educators. In August 2023, Tony Gilbert, Sales Director at New Era Technology led the webinar, "AI and Chat GPT – School Leadership Considerations," covering the exciting potential of Artificial Intelligence (AI) in education, including his expert insights as to how educators can adapt and embrace AI into their practice. Check out the following AI tools discussed in the webinar that empower not just students, but also educators in generating lessons, creating content, and streamlining administrative tasks, among others.

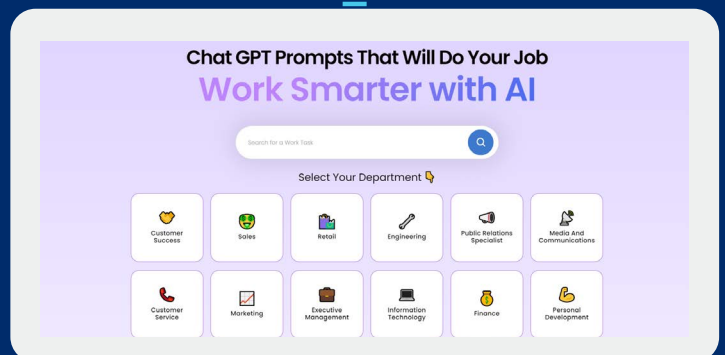
Gamma.app: Gamma.app is a flexible AI tool that can produce papers, presentations, and websites, simplifying content creation for teachers and students.



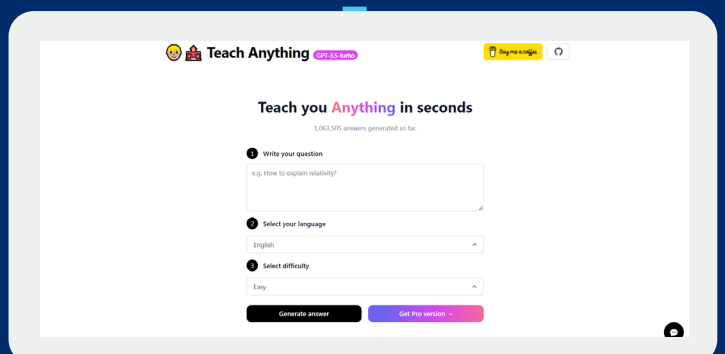
Chat GPT by OpenAi: Advanced AI language models include Chat GPT 3.5 and 4. While GPT-3.5 is renowned for its natural language understanding, GPT-4 has additional features like plugins, file uploads, and connections to enhance interactions.



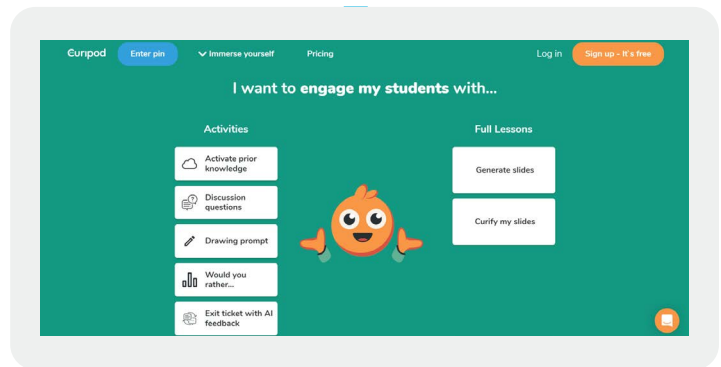
Aiforwork.co: Aiforwork.co is an advanced Chat GPT prompt database allowing users to an open source of job-specific prompts to increase productivity. It can self-evaluate responses and provide the option for user reviews, enhancing its utility for educational tasks.



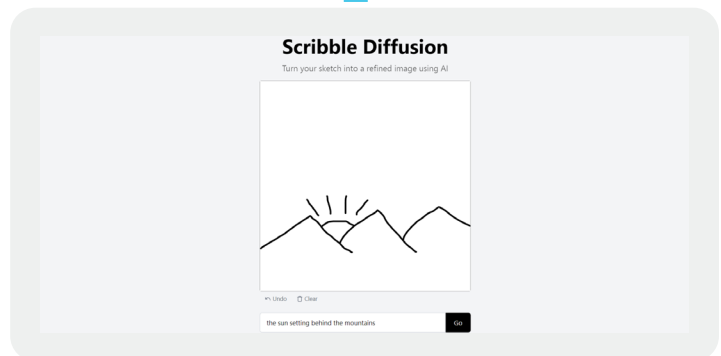
Teach-anything.com: Teach-anything.com is an AI-based tool utilising GPT-3.5-TURBO for generating any questions one may have (language and difficulty level can be set) and well, teach anything. It can be a valuable resource for educators looking to generate lessons.



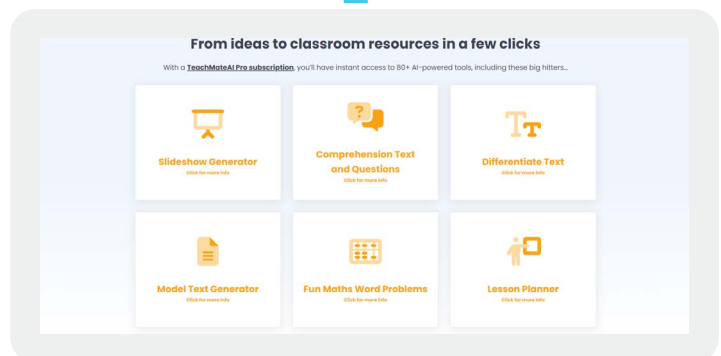
Curipod.com: Curipod.com is another tool educators can use for generating and delivering interactive lessons, from creating slides or uploading existing presentations to using word cloud, polls, illustrations, or open Q&A for student engagement.



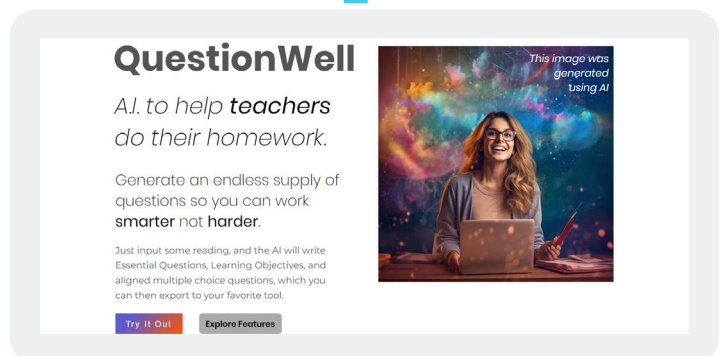
Scribble Diffusion: Scribble Diffusion is focused on arts and visuals as it can turn rough sketches into a refined image using AI, making it an ideal tool for creative projects in educational contexts, such as art classes or visual presentations.



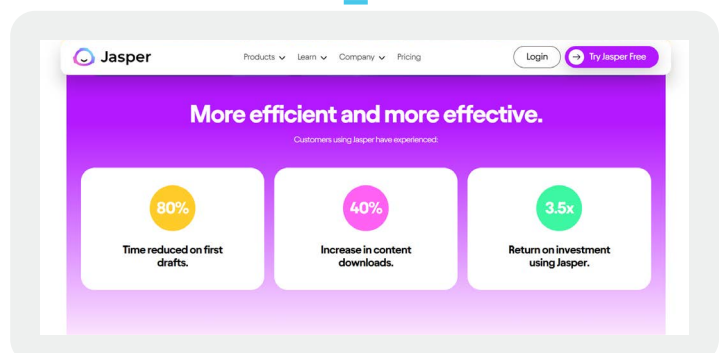
Teachmateai.com: Teachmateai.com, dubbed "The AI Assistant for Teachers," is a selection of AI-powered teaching tools designed to assist teachers in streamlining work – freeing up their time, particularly from administrative tasks, and focusing on lesson planning instead.



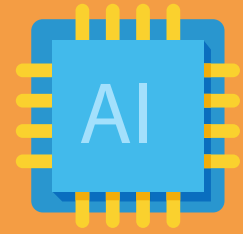
Questionwell.org: Questionwell.org is an AI tool dedicated to generating questions (including learning outcomes) about a topic a user inputs, which can be highly useful for educators when creating assessments and quizzes.



Jasper.ai (for admin): Jasper.ai is an AI platform for content creation in minutes, such as copies for email communications, marketing blogs and newsletters, product descriptions, etc. For administrative tasks in educational settings, it can help with tasks like writing templates and, resource management.



Other AI Tools to Watch Out for



Microsoft 365 Copilot: Integrated into the Microsoft 365 apps you are already using (Word, PowerPoint, Excel, Outlook, etc.), Microsoft 365 Copilot aids in automation and workflows to enhance creativity and productivity.

Quantum AI: Quantum computing, while not a specific instrument, is an innovative technology with enormous promise for research and teaching, particularly in the areas of computer science and physics.

Robotics: Automation, engineering, and programming may all be taught to students using robotics technology in educational settings, giving them hands-on learning opportunities.

The opportunities are endless as institutions, educators, and students continue to explore cutting-edge technology and create material using AI. With these resources available, we are on the cusp of a new age in education, one where learning is more personalised, engaging, and efficient than ever. One thing is certain: the future of education is bright and full of unlimited chances for development, discovery, and innovation. AI is evolving and integrating into the educational environment.

The AI revolution brings both excitement and responsibility. As education embraces AI's potential, it must do so with a clear focus on preserving the core values of effective teaching and leadership. Ethical considerations, thoughtful policy development, and strategic implementation will determine the success of AI integration. The path forward demands a delicate balance between innovation and the enduring essence of quality education.

Got Questions? Let's chat!

CALL US at 0800 438 428 or
EMAIL US at info.nz@neweratech.com
to find out more about our education technology
solutions for your school.



neweratech.com