

# GENAI WEAKNESSES AND THREATS IN EDUCATION

Students and Teachers	Educational Institutions	Society at Large
<p><b>Accuracy Concerns</b> GenAI may produce misleading or incorrect information that can misinform users.</p>	<p><b>Security Risks</b> The implementation of AI tools is associated with increased exposure to cyber threats, such as data theft and ransomware attacks.</p>	<p><b>Bias</b> There is potential for GenAI to reflect and amplify societal biases in skewed or misleading outputs, due to limitations in training data diversity and quality.</p>
<p><b>Academic Misconduct Considerations</b> The use of GenAI presents challenges to academic integrity, originality, and the development of authentic skills, while complicating the detection of possible misuse.</p>	<p><b>Technical Challenges</b> Implementing, updating, and maintaining AI tools can be complex and require specialised expertise.</p>	<p><b>Inequitable Access</b> There is a risk of widening the educational divide due to discrepancies in access and availability of technology and related resources.</p>
<p><b>Over-reliance</b> Over-reliance on AI has the potential to suppress critical thinking and diminish motivation for self-learning.</p>	<p><b>Resource-Intensive</b> Large-scale AI adoption can significantly strain institutional resources.</p>	<p><b>Data Privacy Concerns</b> The use of AI in education often involves handling sensitive information, thus safeguarding data privacy and preventing misuse of data is crucial.</p>
<p><b>Neglect of Essential Skills</b> With constant use and reliance on AI, essential competencies like creative thinking and analytical reasoning may be overlooked.</p>	<p><b>Adaptability</b> AI tools must be continuously updated to keep pace with curriculum changes and diverse educational needs.</p>	<p><b>Economic Implications</b> Adopting AI in education may incur significant costs and job displacements, requiring institutions to consider the economic impacts and the continued preference for human educators.</p>
<p><b>Lack of Judgement</b> AI may omit or overlook details, subtleties, and nuances in learning content, potentially leading to superficial understanding of complex topics.</p>	<p><b>Dependency on Connectivity</b> Institutions need robust and reliable internet connectivity to effectively integrate and use AI tools.</p>	<p><b>Over-commercialisation</b> There is a risk that commercial and market interests may overshadow genuine educational needs.</p>
<p><b>Loss of Personal Touch</b> AI cannot replicate the empathy and intuition of human intelligence that are vital in education.</p>	<p><b>Reputation Risks</b> Heavy reliance on AI may affect the reputation and appeal of an educational institution, as stakeholders may perceive it as compromising educational quality.</p>	
<p><b>Interactivity Limits</b> AI-driven classrooms often lack the dynamism and flexibility of human-led discussions or activities.</p>		
<p><b>Homogenisation of Thought</b> AI may constrain the diversity of perspectives.</p>		
<p><b>AI Overload</b> Some users may feel overwhelmed due to unfamiliarity or concerns about fully harnessing its potential, which can make AI a hindrance to learning.</p>		