AI Research Report

SOURCE 1:

- **Applications of AI in Education Research**: Education researchers are leveraging AI to enhance various aspects of their work, including predicting student outcomes, analyzing qualitative data, conducting literature reviews, and drafting research findings, offering speed, cost-efficiency, and automation.

- Concerns about Using AI: Despite the advantages, there are significant concerns regarding the accuracy, security, potential plagiarism, and ethical implications of employing AI in educational research.

- Predictive Analytics in Practice: AI-powered learning analytics help identify patterns in student behavior, allowing researchers and school staff to assess which students may need additional support, using terms like predictive analytics and educational data mining.

- Data Sources and Limitations: The effectiveness of learning analytics heavily depends on longitudinal administrative data and finer data from learning management systems, though issues such as algorithmic transparency and the ethical application of risk scores raise questions about their utility.

- Case Studies: Schools, like the Isaac Elementary School District in Arizona, are implementing AI tools to monitor students at risk academically and socio-emotionally, showcasing practical applications of AI in real-world educational settings.

URL: https://www.childtrends.org/publications/applications-ai-education-research

SOURCE 2:

- **AI in the Classroom: Survey Shows Increased Familiarity with ChatGPT Among Teachers**
- A new survey by the Walton Family Foundation reveals that 79% of teachers are now familiar with ChatGPT, a significant increase from 25% last year, indicating a growing acceptance of AI in education.
- **Positive Impact of AI Recognized by the Education Community**
- Over 80% of teachers, parents, K-12 students, and college students believe that AI has had a positive impact on education, highlighting a collective shift towards embracing technology in learning environments.
- **Innovative Uses of AI Tools in Education**
- Educators like Winston Roberts are leveraging AI to enhance student learning experiences,

such as teaching financial literacy, demonstrating the potential for AI to support students from diverse backgrounds.

  - **Emerging AI Tools Addressing Educational Challenges**

  - New AI applications, including a Math Hint Generator and Early Literacy Interventions Tool, are designed to support student learning and tailor educational approaches to individual needs.

  - **AI Resources for Informed School Choices**

  - AI chatbots are being developed to assist families in evaluating school options, thereby improving their ability to make informed decisions based on their children's educational needs.

URL: https://www.waltonfamilyfoundation.org/ai-in-the-classroom

SOURCE 3:

  - **AI in Education: Charting the Emerging Landscape** - The integration of generative AI in K-12 education presents both risks and opportunities, emphasizing the need for proactive preparation to ensure students can navigate future challenges and roles in a changing job market.

  - Educators, system leaders, and policymakers must be equipped to manage AI's implications, focusing on improving instruction and addressing issues such as bias, access, and academic integrity.

  - Urgent research is required to understand and mitigate potential risks while exploring AI's potential to enhance educational outcomes and reshape the roles of educators.

  - Prompt action and bold leadership are essential for effectively harnessing AI to prepare students for complex problem-solving in the future.

  - CRPE employs a rapid response research model to monitor and analyze the evolving landscape of AI in education.

URL: https://crpe.org/responsive-systems-policies/ai-in-education/