Artificial Intelligence to Improve Student Success

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Artificial Intelligence to Improve Student Success

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Is Einstein’s observation that “our technology has exceeded our humanity” an unavoidable reality?

If not, what can we do to bring the ed tech ecosystem into alignment to better serve humanity?
What is AI?

Core Disciplines of AI:

- Computer Vision
- Machine Learning
- Natural Language Processing
What is AI?

A branch of computer science that builds smart machines or computer programs capable of performing tasks that typically require human intelligence.
Is It AI?

Courtesy: MIT Computer Science & AI Lab
Data and algorithms encode a set of assumptions, beliefs and values that are not bias free.
Introducing the Alliance

2022
AI in Education

**SMART CONTENT**
With AI-based tools, learning materials can be easily categorized and grouped according to the educational plans and even student preferences.

**PERSONALIZED LEARNING**
Providing recommendations for resources and assignments based on personal results and demonstrated need, enabling individualised pathways through materials and courses.

**UNIVERSAL ACCESS**
From automatic translators, to integrated learning support for different learning types and or accessibility issues, enabling asynchronous learning.

**VIRTUAL FACILITATORS**
Integrating live classroom methods with best-fit virtual technologies—including virtual facilitators, augmented reality, and intelligent tutoring.
Postsecondary Use Cases

- Chatbots
- Predictive Analytics
- Adaptive Instructional Systems
  - Personalized, adaptive courseware
  - Intelligent Tutoring Systems
  - Recommendation Engines
  - Engagement/Disengagement Prediction
- Tools for faculty: grading; creating differentiated homework and quizzes; timely meaningful feedback to students
- Adaptive Advising Systems
The market has yet to establish benchmarks to help consumers discern the quality and reliability of these new technologies.
EdSAFE AI Alliance

The EdSAFE AI policy framework and standards seek to encompass four S.A.F.E. categories

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<td>Safety</td>
<td>Accountability</td>
<td>Fairness</td>
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<td>(Security, Privacy, Do No Harm)</td>
<td>(Defining Stakeholder Responsibilities)</td>
<td>(Equity, Ethics, Non-Bias)</td>
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A global alliance of AIEd tech and education leaders working together to establish an ecosystem where transparency and openness leads to growth and success in the market.
Our Community so far

- Engagement Growth
  - 180+ engaged participants
  - 18+ countries
- Active Community meetings and working groups
- Sharing the opportunity around the Globe
- Invited to Submit Funding Opportunities
Resources & Contacts

• EdSafeAI: www.edsafeai.org

• Purdue University Governance Principles:
  https://www.purdue.edu/idata/documents/Data_Governance/Purdue_Analytics_Policy_and_Governance.pdf

• Georgetown University Privacy Preserving Technologies:
  https://georgetown.app.box.com/s/83fi6bh570rn0nxc3rzkn7qgz9ig0ngg

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