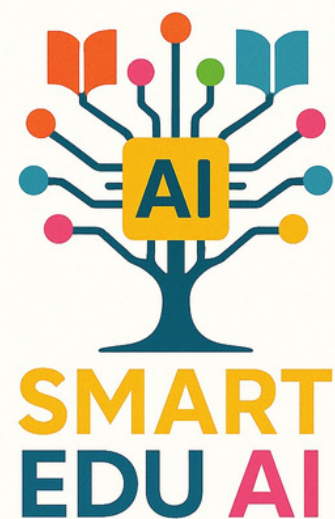




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What is AI and How is it Used in Education?

Expert Talks – Day 1





What is Artificial Intelligence?



Definition

Systems performing human-like intelligence tasks



Key Technologies

Machine Learning, NLP, Computer Vision



Examples

Chatbots, recommendation systems, autonomous vehicles



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AI in Our Daily Lives



Virtual Assistants

Siri, Alexa, Google Assistant



Personalized Recommendations

Netflix, Spotify, Amazon



Smart Devices

Thermostats, security cameras



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AI in Education: Why Does It Matter?

Personalized Learning

Tailoring education to individual student needs

Automation

Reducing administrative burdens for teachers

Enhanced Engagement

Interactive and immersive learning experiences

Data-Driven Insights

Improving decision-making through analytics



How is AI Used in Education?



Intelligent Tutoring Systems

Adaptive platforms like Khan Academy and Duolingo



Automated Grading

Tools like Gradescope for faster assessment



Learning Analytics

Platforms tracking student progress



Immersive Learning

AR/VR tools for virtual field trips

Benefits of AI for Education

For Students

- Personalized learning paths
- 24/7 tutoring and support

For Teachers

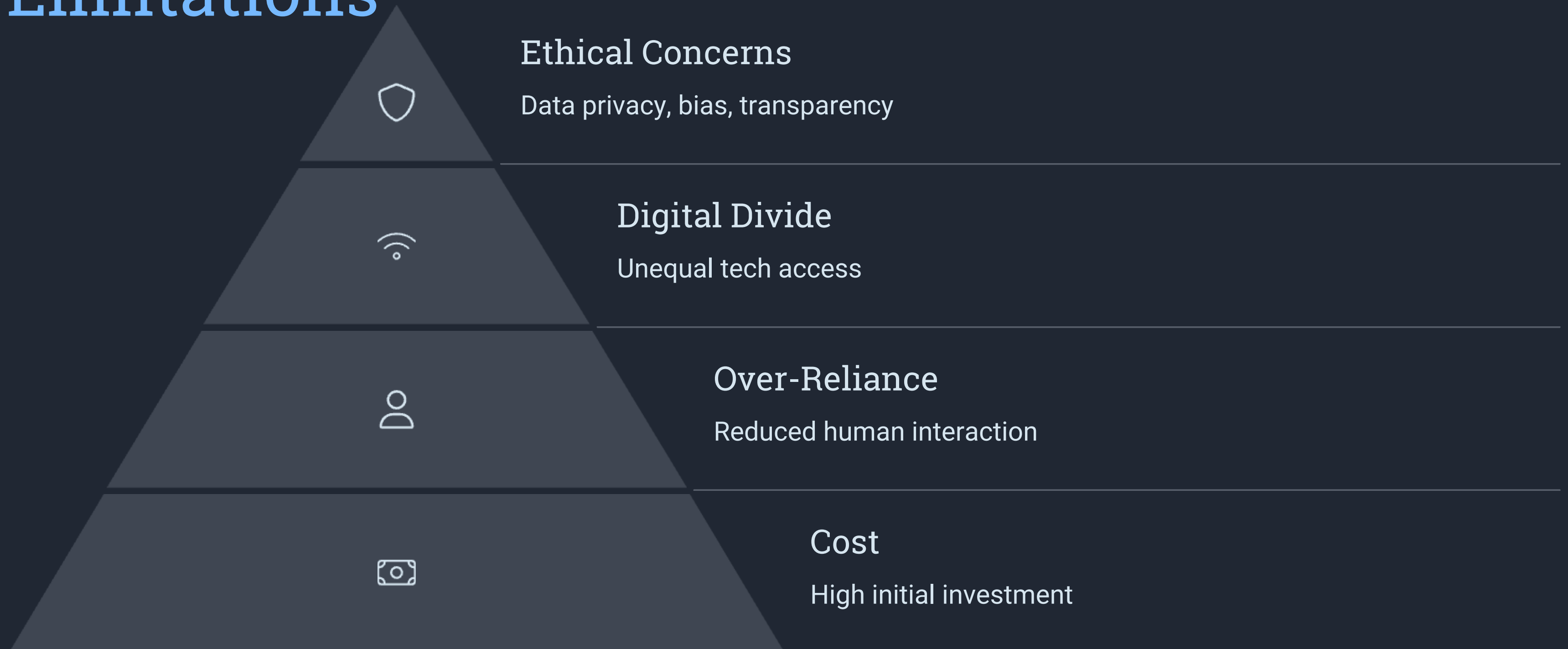
- Time-saving grading tools
- Insights into student performance

For Institutions

- Improved resource allocation
- Enhanced learning outcomes



Challenges and Limitations



Real-World Examples of AI in Education



Duolingo:

Duolingo is a popular language-learning app that uses AI to personalize lessons for users. It adjusts the difficulty level of exercises based on the user's performance, ensuring an optimal level of challenge to keep learners engaged. Duolingo also offers a classroom version and a math education app, further expanding its AI-driven educational offering



Khanmigo by Khan Academy:

Khanmigo is an AI-powered tutoring assistant developed by Khan Academy. It provides personalized assistance to students in subjects like math, reading, and writing. Teachers can use Khanmigo to create effective lesson plans based on student assessments, while parents can monitor progress and receive explanations of the subjects their children are studying

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Carnegie Learning:

Carnegie Learning uses AI to provide personalized math and literacy lessons. The platform identifies knowledge gaps in students and adjusts instruction accordingly, allowing students to learn at their own pace and fostering a deeper understanding of concepts



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The Future of AI in Education

Adaptive Learning
Expansion of personalized platforms

Generative AI
Interactive learning tools



Immersive Learning
Increased AR/VR use

Teacher Development
AI-powered training tools



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Conclusion



Revolution

AI offers personalized, efficient solutions



Challenges

Ethics and accessibility must be addressed



Call to Action

Leverage AI to empower next generation



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