



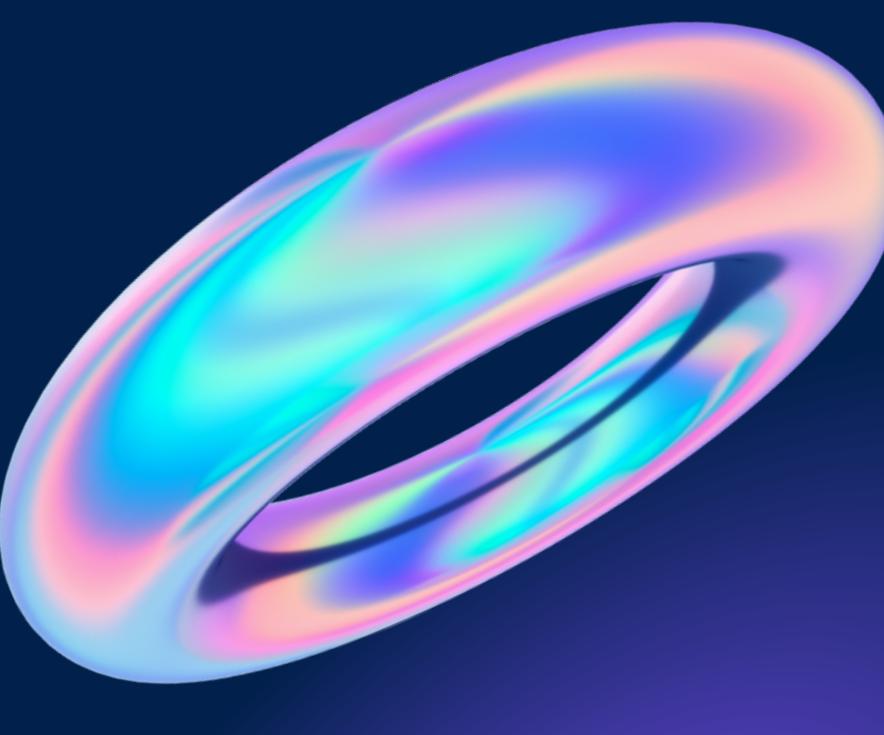
Managing AI Presentation

-- Digital Transformation on Educational
Institution

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Introduction

Advancements in AI enhance education by personalizing guidance and automating assessments. Examples include intelligent tutoring systems and automated grading. Ethical concerns arise around equity, data privacy, and assessment integrity. Our analysis focuses on the Metaverse Campus and adaptive learning platform, aiming for inclusive, personalized education.



Transparency

- Clear information on platform capabilities
- Benefits of immersive experiences and hands-on learning.
- Access to education for students worldwide, promoting inclusivity.
- Customizable avatars and interactive tools for student engagement.
- Metrics and criteria for progress monitoring.
- Encouragement of user input for transparency and inclusivity.
- Awareness of AI-human interaction options.



Diversity, Fairness, non-discrimination

- All students had equitable access to resources and personalized learning.
- Recorded lessons for flexible access and personalized learning.
- Ongoing monitoring for fairness and inclusivity.
- Avatar-based representation promotes non-discriminatory assessment.

Privacy and Data Governance

- Minimization of sensitive data, reducing privacy risks.
- Consent mechanisms for informed choices and data control.
- User control over personal information and privacy preferences.
- Secure deletion of data to minimize retention risks.
- Privacy impact assessments for risk identification and mitigation.
- Trained personnel ensure adherence to data protection policies.

Technical robustness and safety

For Adaptive Learning Platform:

- High tolerance of hackers' attacks and give reactions;
- Low risks among students about data;
- High accessibility to students' scores;
- Inaccurate recommendation leads to bad effects.

For Metaverse University:

- No strong dependence on Internet;
- Medium risks among administrator, teachers and students;
- High level of accuracy in presenting concepts, materials etc.;

Technical robustness and safety

Both projects:

- Minimise the cost with AI system (data, race and disability problems);
- Follow best practises, adhere to legal and regulatory frameworks.

Human agency and oversight

- Limit using personal information;
- Using high standard data encryption tactics and algorithms (like SHA-256);
- Processes with data should base on regulations GDPR;
- Only specific members in the company can access to the database and can only be used in certain situations;
- A log preserved to show the record of database being accessed (time, place, person and usage).

Accountability

Auditability and Traceability

- Establish mechanisms for auditing and tracing activities
- Maintain detailed records for issue identification and resolution

Risk and Impact Assessment

- Conduct comprehensive assessments to identify risks and ethical concerns
- Proactively mitigate potential risks and ensure user well-being

Ethical Decision-Making

- Document and define guidelines for ethical decision-making
- Engage stakeholders to navigate conflicting ethical principles effectively

Societal and environmental well-being

Equity in Access

- Metaverse Campus & adaptive learning
- Alternative access for disabilities, international students, socioeconomic barriers

Student Data Privacy

- Consider AI tech's environmental impact
- Optimize energy consumption, sustainable infrastructure

Adaptive Learning Platform

- Stringent data protection policies
- Informed consent, privacy regulation compliance
- Minimize data retention, prioritize anonymization

Environmental Impact

- Implement adaptive learning
- Personalized learning, diverse pathways

Recommendations

Transparency

Enhance user interface with intuitive explanations, visual aids, and concise language.

Diversity, non-discrimination

Train developers, content creators, and educators on sensitivity, inclusivity, and bias mitigation.



Recommendations

Technical robustness and safety

- Applying multiple tests at various stages of development; (unit, integration and system testing);
- Pay attention and give reactions to users' feedbacks.

Human agency and oversight

- Define the roles and responsibilities of humans in the AI system;
- Continuous monitoring AI system's performances and impact on users.

Recommendations

Accountability

Implement robust audit trails and logging:

- Ensure transparency and traceability of activities and data interactions
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Establish a comprehensive governance framework:

- Define clear policies, guidelines, and roles for decision-making and risk management

Societal and environmental well-being

Assess social impact regularly:

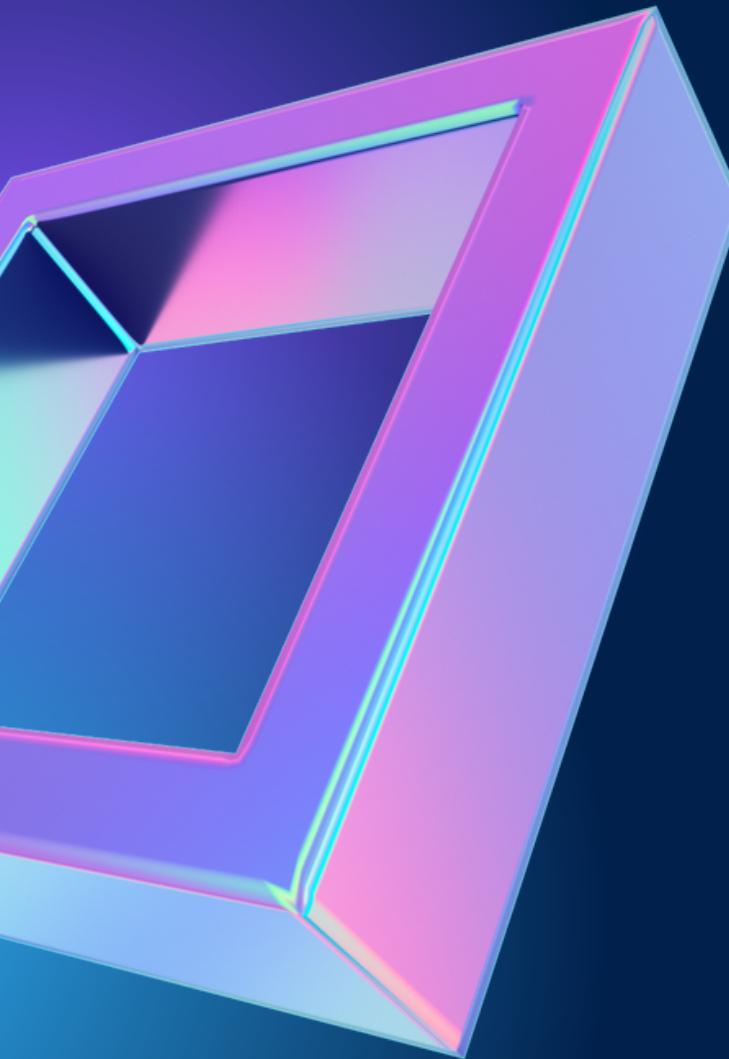
- Evaluate accessibility, diversity, and inclusivity
- Drive improvements, address disparities

Collaborate with external organizations:

- Partner with advocacy groups and experts
- Promote societal well-being, equity

Conclusion

With high-quality data and the advanced technology, people and institutions today can solve overcome problems and provide more opportunities in education .



Thank You for Your Attention

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