AI IN 12 MINUTES FOR EDUCATION

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MOTIVATION - WHY AI

Personalized learning

Efficiency in administration

Enhanced student engagement

Data-driven insights

Automated grading and feedback

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INDUSTRY

Schools and Universities

E-learning platforms

Educational content providers

Assessment and testing

Education technology

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STRATEGIC TRENDS

Online learning platforms

Gamification of education

AI tutors and assistants

Big data analytics

Adaptive learning technologies

Virtual and augmented reality

Blockchain for certification

Collaborative learning tech

Mobile-first education platforms

Cloud-based educational resources

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WHY CHANGE?

Global educational accessibility

Evolving job market needs

Technological integration demand

Personalized learning importance

Efficiency in administration

LEADING THE CHANGE

Coursera, EdX, Khan Academy (E-learning)

Duolingo (Language learning)

Quizlet (Study tools)

Blackboard (Education management)

Canvas (Learning management systems)

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DIGITAL TRANSFORMATION

AI-powered educational assistants

Virtual Reality (VR) classrooms

Augmented Reality (AR) learning

Adaptive learning algorithms

Blockchain for secure certifications

Cloud computing for accessibility

Big data for personalized insights

Gamified learning experiences

Mobile learning applications

E-learning platforms

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AI DISRUPTION

Personalized learning paths

Predictive analytics for student success

AI-driven content curation

Automated grading systems

Chatbots for student support

AI in educational gaming

Natural Language Processing (NLP) for language learning

Facial recognition for attendance

AI in special education

Data-driven curriculum development

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GREAT EXAMPLES OF AI

AI tutors like Carnegie Learning

Chatbots like SnatchBot for student queries

AI-driven personalized learning from Knewton

Automated essay scoring by Turnitin

AI in Duolingo for language learning

IBM Watson for education analytics

Content recommendations by Quizlet

Facial recognition in Smart Classrooms

AI for special needs education in CogniToys

Predictive analytics in higher education

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ECOSYSTEM REQUIREMENTS

High-speed internet access

Technologically equipped classrooms

Continuous professional development for educators

Collaboration between tech providers and educators

Supportive policy and funding

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AI ⏩ SUSTAINABILITY

Reduces paper usage with digital resources

Enables remote learning, reducing travel

Energy-efficient smart campus technologies

AI for efficient resource allocation

Enhanced global educational accessibility

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NEW RISKS - ETHICAL, LEGAL, SOCIAL

Data privacy and security concerns

Bias in AI algorithms

Over-reliance on technology

Digital divide among students

Ethical use of surveillance tech

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AI MISUSE EXAMPLES

Biased AI in admissions (Example: algorithm favoring certain demographics)

Invasive surveillance in classrooms

Plagiarism using AI writing tools

Manipulated educational content

Hacking of educational databases

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THREE AI DILEMMAS

Should AI grade subjective answers?

Is constant AI surveillance in education ethical?

How to ensure equitable AI access?

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OPERATIONAL REQUIREMENTS

Strong leadership and vision for AI integration

Skilled team for AI development and maintenance

Collaborative culture embracing technology

Effective data governance and management

Continuous investment in technology and training

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STEP BY STEP APPLICATION

Assess educational needs

Choose suitable AI tools

Train educators and staff

Implement in phases

Monitor and adapt

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BEST PRACTICES

Start small with pilot programs

Focus on student privacy and data security

Encourage educator and student feedback

Continuously update AI systems

Blend traditional and AI methods

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AI MODELS

Predictive analytics models

Natural Language Processing (NLP)

Machine learning for personalized learning

Decision tree algorithms

Neural networks for pattern recognition

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GOOD DIGITAL TWINS

Virtual campus models

Digital twins for laboratory experiments

Virtual reality classroom simulations

Online learning environment replicas

AI-driven school operation models

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COOL NORWEGIAN CASES

Kahoot! (Game-based learning platform)

Ludenso (AR for education)

Differ (Social learning platform)

Eduplaytion (Educational gaming)

Skillify (Competence development tools)

Boost AI (Virtual assistants for education)

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GLOBAL LEADERS

United States (Silicon Valley's edtech)

China (Massive online platforms)

India (Rapid edtech growth)

Norway (Innovative learning solutions)

United Kingdom (Diverse educational tech)

FUTURE JOBS

AI curriculum developers

Educational data analysts

VR/AR educational content creators

AI ethics officers in education

Edtech support specialists

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THE FUTURE OF AI

AI for individual learning paths

Immersive VR and AR learning

AI in global education outreach

Ethical AI development in education

Integration of AI in curriculum design

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RECOMMENDED READING

"Artificial Intelligence in Education" by Wayne Holmes, Alyssa Friend Wise

"Teaching Machines" by Audrey Watters

"AI in Learning and Education" by Neil Selwyn

"Machine Learning Yearning" by Andrew Ng

"The Hundred-Page Machine Learning Book" by Andriy Burkov

GOOD TED TALKS

"The future of learning" by Sugata Mitra

"What AI is — and isn't" by Sebastian Thrun

"Can we build AI without losing control over it?" by Sam Harris

"Let's teach for mastery — not test scores" by Sal Khan

"The surprising thing I learned sailing solo around the world" by Dame Ellen MacArthur (focuses on adaptive learning and resilience)

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WHAT WOULD YOU ADD?
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