

Prof Dr. ASM Shihavuddin

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Al mimics human intellegence using machines



Use Cases of Al

Face recognition

Autonomous vehicle

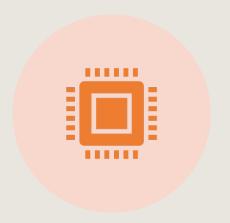
Recommendation of video clips in YouTube

Recommendation of books in amazon

Digital servilance







GENERATIVE AI GENERATES NEW CONENTS BASED ON PRETRAINED DATA, PRIMARILTY LARGE LANGUAGE MODEL A PROMPT CAN GENERATE A NEW ARTICLE, IMAGE, SPEECH AND VIDEOS

MACHINE CAN TALK TO HUMAN IN AN INTERACTIVE MANNER AND CAN BE USED IN MANY PURPOSES SUCH AS PERSONAL ASSISTANCE

AIIN EDUCATION THREAT / OPPORTUNITY

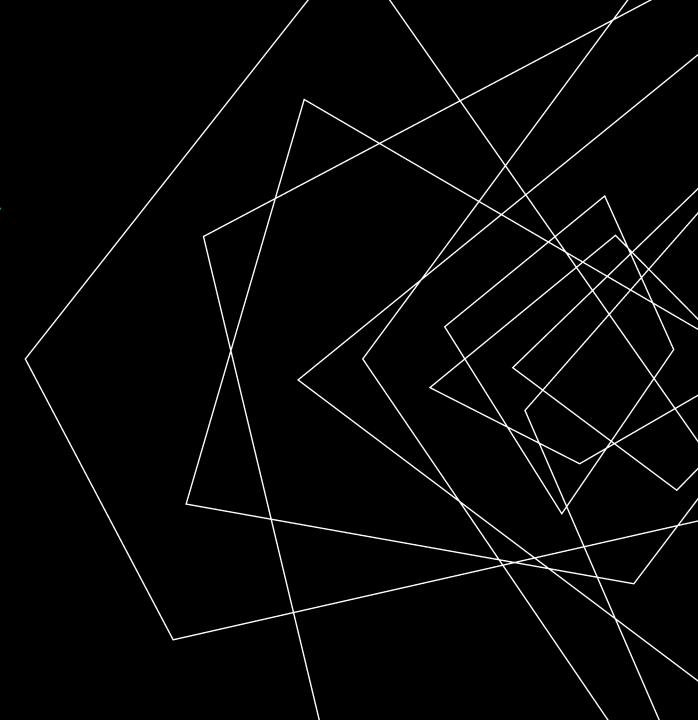
Trends

Adaptation

Vision

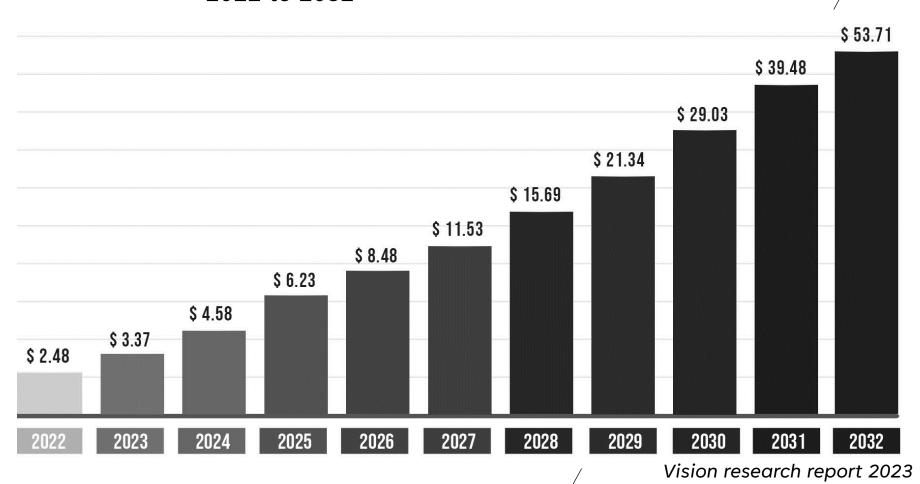
Way forward

Reflection



TRENDS

AI in Education Market Size in USD billions 2022 to 2032



ECO SYSTEM AI IN TEACHING AND LEARNING

By Component	Solutions Services
By Deployment	Cloud On-premise
By Technology	Natural Language Processing (NLP) Machine Learning
By Application	Learning Platform & Virtual Facilitators Intelligent Tutoring System (ITS) Smart content Fraud and Risk Management Others
By End-use	K-12 Education Higher Education Corporate Training & Learning

Adaptivity In Learning

Enhance Feedback Loops

Virtual Reality (VR) And Augmented Reality (AR) In Education

AI-Powered Intelligent Tutoring Systems

Natural Language Processing (NLP) For Language Learning

Al Quiz Makers

ChatGPT

POWER OF AI
IN TEACHING AND LEARNING

Traditional 21st Century Look

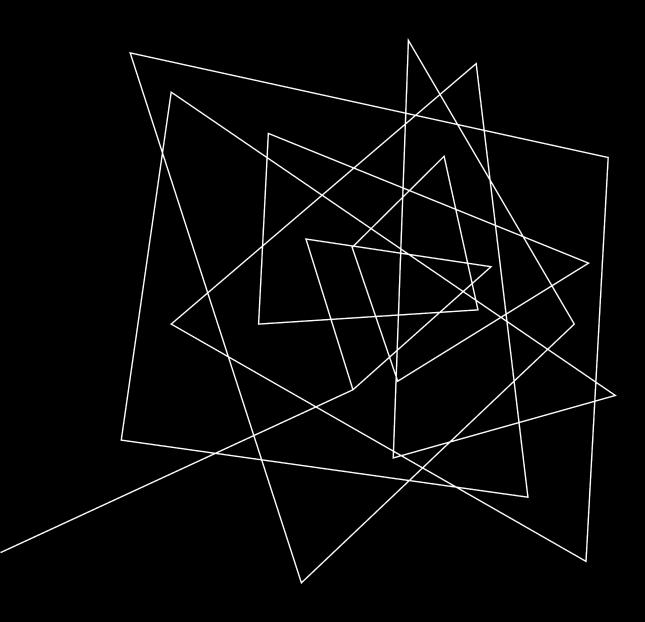
Lecturer Junior Facilitator

Assistant Professor Senior Facilitator

Associate Professor Assistant Facilitator

Professor Associate Facilitator

Facilitator



VISION

By harnessing the power of AI, educators can unlock new avenues for student engagement, optimize learning resources, and create tailored learning experiences that cater to the unique needs of each student.

https://medium.com/@janelreyneke/integrating-ai-into-education-possibilities-and-challenges-425a89a304a2

WAY FORWARD

Adaptive Learning: "Used to teach students basic and advanced skills by assessing their present skill level and creating a guided instructional experience that helps them become proficient."

Assistive Technology: All can help special needs students access a more equitable education, for example by "reading passages to a visually impaired student."

Data and Learning Analytics: "AI is currently being used by teachers and education administrators to analyze and interpret data," enabling them to make better-informed decisions.

Facilities Management: At is effective at "monitoring the status of power, Wi-Fi and water services; alerting the facilities management workers when problems arise."

System Management: At is currently being used to manage entire schools, powering student records systems, transportation, IT, maintenance, scheduling, budgeting, etc.

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EXAMPLE USAGE

Plagiarism Detection

Exam Integrity

Chatbots for Enrollment and Retention

Learning Management Systems

Transcription of Faculty Lectures

Enhanced Online Discussion Boards

Analyzing Student Success Metrics

Academic Research

Connected Campuses

RECENT INITIATIVES









Personalized assistance

Voice to text assistance

Learning assistance









Helping educators to use technology.

Journalism to ignite education

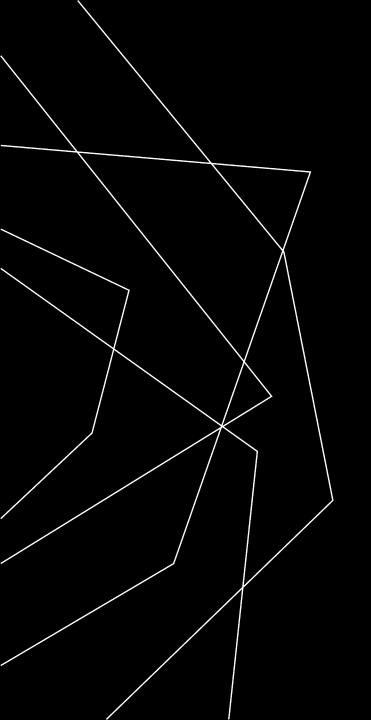
Smart assistance for learners and educators

Personalized assistance for learners

A QUOTE FROM SAL KHAN, TED TALK 2023

"If the good actors don'ts advance in AI, bad actors will surely do and that will make the AI more of a challenge than an opportunity"

https://www.youtube.com/watch?v=hJP5GqnTrNo&ab_c hannel=TED



REFLECTION

START SMALL

PARTNER WITH A RELIABLE AI PROVIDER

FOSTER ETHICAL AND CRITICAL THINKING

