FUTURE OF DIGITAL EDUCATION

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Current state of digital learning

Earlier

E-Books
Current state of digital learning

Before

Online-Courses
Current state of digital learning

Lectures

MOOCs
Current way of digital learning is making education accessible by reaching masses affordable.
DRAWBACKS

Non-Interactive
No Experience
No sense of collaboration

Not one-on-one

Not Immersive
Not Personalized
IMMERSIVE EDUCATION
IMMERSIVE LEARNING

**Immersive learning** is the process of **learning** with the usage of a **simulated or artificial environment**.

The environment enables the **learners** to completely get immersed in the **learning** and in a way that **feels like experiencing an actual learning environment**.
WHY IMMERSIVE LEARNING?

WE LEARN
10% of what we read!
30% of what we see!
80% of what we experience!
IMMERSIVE EDUCATION
IS HERE
IMMERSIVE LEARNING TECHNOLOGIES

Virtual Reality

Augmented Reality

Mixed Reality
Virtual object placed (fused) INTO virtual environment

Virtual object placed (overlaid) ONTO real environment

Virtual object placed (fused) INTO real environment
Reality – Virtuality Spectrum

Video Game
VR Games
The Void
Magic Leap
HoloLens
ARkit
Instagram Filters
Pokemon Go
Actual Photos

Completely Digital

Virtual Reality
Mixed Reality
Augmented Reality

Completely Real

Extended Reality
AR/VR/MR and eLearning
How AR/VR/MR transforming the Learning Industry?
VR IN EDUCATION

https://www.youtube.com/watch?v=mlYJdZeA9w4&feature=youtu.be
Virtual Field Trips
  Google Earth VR
  Google Expeditions

Virtual Space tours https://youtu.be/J8sLSQ54bHE
  With Titans of Space app you can explore 40 celestial bodies in details

You can visit pre-history
  Jurassic age
On the job training
   Hazardous job training
   Google Expeditions

Therapy
   Exercises for special needs children
AR IN EDUCATION

https://youtu.be/DYqLaMWTVg

Volcano

Large releases of negative volcanic gas can be harmful to its surroundings.

AMOUNT: Volcanic eruptions release about 180-440 million tons of carbon dioxide in an average year.

STRENGTH: Once deposited, these ash particles can poison drinking water supplies.
Stargazing made easy

Point your device at the sky to find stars, constellations and more.
A solar eclipse occurs when the Moon passes between the Sun and the Earth. The Moon fully or partially blocks out the Sun, as seen from the Earth.

A lunar eclipse occurs when the Moon passes directly behind the Earth into its umbra (shadow).
A new weather satellite, set to launch today (March 1), will help track wildfires, cyclones, fog and storms that threaten the western United States, as well as give researchers a view of that region in unprecedented detail.
LEARN ABOUT WHAT IT TAKES TO BUILD AND LAUNCH A ROCKET

Explore the Launch Pad

SpaceX currently leases Launch Complex 40 from the Air Force and has modified it specifically for its Falcon 9 rockets.

Inspect the area to learn more.
Photomath

Scan math problems for instant results

Learn with step-by-step instructions

Solving Steps

3x + 4 = 8
Move constant to the right side and change its sign
3x = 8 - 4
Subtract the numbers
3x = 4
Divide both sides by 3

Complex arithmetic operations

Systems of linear equations

\[
\frac{5}{4} - \left( \frac{1}{2} - \frac{3}{4} \right)
\]

\[
\frac{5}{4} - \left( \frac{1}{2} - \frac{3}{4} \right)
\]
Using the scalpel make an incision along the indicated line.
AI IN EDUCATION
MOST OF US ARE USING AI IN SOME WAY
How we learn?

![Graph showing the relationship between pleasure and familiarity, with 'Yay!!' at the peak and 'Aaargh!' at the valley, labeled 'Boring!' at the horizontal line in the middle.](image)
Current one to many teaching methodology..
AI enabled e-learning
Just-In-Time Remedy

- Multiply fractions
- Divide fractions
- Find reciprocals of fractions
Driven by Bots

Bienvenue à La Boutique Chic!

Bonjour, Madame!

Bonjour à toi aussi.

Bonjour, mon ami.

Salut Mademoiselle!

Powered by A.I.

Duolingo Bots are powered by artificial intelligence and react differently to thousands of possible answers. Feeling stuck? Hit “help me reply” and they’ll come up with suggestions.

Best of all — the more you practice, the smarter they get.
Online Certification
Data to Knowledge

Input management

IMPORT
Document upload & sorting

AI
OCR, classification & information extraction

REVIEW
Validation of extracted data

Structured data repository
Other usecases

University of Arizona tracks student ID cards to detect who might drop out.
This can be applied to our govt education and distance education.

The Council of University Presidents of Thailand analyses students' interests and show them which university majors may be a good match.
THANK YOU