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IMPACT OF TECHNOLOGY ON EDUCATION

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Abstract

Technology has completely changed the learning process, offering both great opportunities and new challenges. This article emphasize that how technology is helping make education more accessible, more personalized, and more connected across the globe. Tools like online classes, smart tutoring systems using artificial intelligence (AI), and virtual reality (VR) are helping people learn from anywhere, no matter their location or background. These tools can make learning more equal for everyone. But at the same time, there are many concerns. Not everyone has access to good internet or devices which is called the digital divide, and there's also the risk of losing two way interaction and privacy problems with students. The COVID-19 pandemic pushed schools around the world to switch to digital learning. This showed that some schools and countries were better prepared than others. Some had good technology and training, while others struggled because of poor internet or lack of digital skills. New tools like smart learning programs that adjust to each student and secure digital certificates could change how we test and recognize student achievements. However, for these tools to work for everyone, we need to fix deeper problems like inequality and accessibility. Other trends that combine conventional school instruction with more intractable and enjoyable learning methods include game-based learning and digital projects, AI-generated content, and hands-on learning using augmented reality (AR). The essay makes the case that although technology can greatly enhance education system, we must utilize it This entails educating educators and make a revolution in deep learning. responsibly.

Keywords

Digital Divide, Artificial Intelligence (AI), Virtual Reality (VR), Digital Learning, Revolution

Introduction

In the era of technology and gadgets humans can cannot survive without it. It is very necessary for formal education. In my research "Education without technology cannot be **completed**" so many aspects of education that relate to technological science Including many things like new emerging learning technology to explore the new global world, In my article I will try to cover the vital role of technology in education and changes in the worlds education system. As a learner and an educator. I will explain how technology directly plays an important part in student's cognitive development. I will discuss a very big revolution in education with technology. The 21st century is a technology era. Its plays a very important and vital role in the education sector. Our society needs be technology adaptive. A Society which is not very much good in technology can never get success. Technology make everything easy and Give solution of many problems. The use of technology is very important in the field of Education at any level. In this world now students prefer to use gadgets in their class rooms the learning is being affective when they use different Modern gadgets. If we use technology in education the learning process of students increases. And it also very interactive and have full of interesting experience. The transfer of information become very convenient and effective. Our brain now train to work fast with the technology "The use of great technology leads to a great innovation" Technology helps teacher to manage their classrooms very effectively. By automatic grading system and interactive lesson planner, teachers can more focus the progress of students with the help of technology and we can give them effective guidance. Artificial Intelligence (AI) in education can locate a student's performance very precisely and match their learning requirements, and suggest to strong their strength and overcome the weaknesses. A very big advantage of technology in education is student engagement in his studies. Interactive games, great educational content with videos, and visual learning tools helps the students to solve complex problems. This



makes learning with fun. Students are more willing to take knowledge and develop critical thinking in the students. Technology are very useful for individual learning. Every student learns at a different pace, and with the help of adaptive learning software, each student can follow a path that suits their individual needs. This creates a supportive learning environment where students can overcome their weaknesses and build on their strengths. Technology empowers the educators and the future leaders very much. It gives the access of many valuable resources and to make teaching process more effective. Digitally organize the lesson plans make more the teacher efficient and wise PPT presentations, digital assessment tools makes the work easier for educators. AI is a very big game-changer in the sector of education. AI can make a very detail analysis of students learning process, Catch the learning related problems and provide instant solution that help the students very much. Education are dependent on latest tools like interactive whiteboards, online learning platforms, and digital books. This transformation is very much necessary for the evolution of students preparing for the Global World. Students can search a very big amount of knowledge with in few seconds. Online content, educational websites, and video lectures makes knowledge more accessible and intractable.

The landscape of education has drastically evolved in recent years, largely due to the rapid advancement of technology. In today's digital age, it is almost impossible to imagine a classroom without smart devices, internet access, and interactive tools. Technology is no longer just an aid—it has become the foundation upon which modern education stands. From early childhood learning apps to advanced virtual simulations in higher education, technology is reshaping how knowledge is delivered and absorbed. According to a report by *Education Technology Insights (2023)*, over 70% of schools worldwide now use at least one form of digital learning platform regularly. This shift reflects a global recognition of how essential technological tools are for enhancing learning outcomes. With the emergence of Artificial Intelligence (AI), Machine Learning, and Augmented Reality (AR), education is becoming more personalized and adaptive. These technologies can analyze a student's learning behavior, suggest improvements, and offer tailored content based on individual needs. This ensures that no learner is left behind, and every student can progress at their own pace.

Technology also plays a critical role in bridging educational gaps. In remote and underdeveloped areas, online education platforms have opened up opportunities that were previously unavailable. During the COVID-19 pandemic, for instance, online classes became the primary mode of learning for millions, highlighting just how indispensable technology has become in maintaining educational continuity. Furthermore, digital tools empower teachers by simplifying administrative tasks and enhancing lesson delivery. Platforms like Google Classroom, Microsoft Teams, and Canva for Education allow educators to manage coursework, provide instant feedback, and create visually engaging learning materials.

In this article, I aim to explore how technology is not just supporting education but transforming it completely. From increasing student engagement to fostering critical thinking and innovation, the integration of technology in education is preparing today's learners for the demands of a highly connected, global society. The future of education is digital—and it's already here.

A New Era of **Digital Learning**

Evolution from Traditional Classrooms to Digital Learning

Education is changing very much with passage of time. In old times students must go to attend traditional physical classrooms and learn from teacher by blackboards and old content textbooks. This will goes by many years but every tradition is changed with future. Every



students leaning process is different from others.by using modern technologies we can analyze the student's needs. In old times the classrooms were full. But now in digital learning era multiple students can attend class at the same time. Students can use computer applications, now handy device tablets and smartphones are used in the education sector learning process is not in a limit. With modern digital tools, students can watch effective content according to their subjects we can take tests and give result statically. This pace of students helping them very much. In past chalk boards and pencils were used to copy content but now a days this system is shifted to smart boards and digital devices. It make easier to learn and easier to teach this is giving the edge for educators as well as pupils. In Education Technology is all over in future. Now in china there are attention scanner is used to monitor the child in classrooms. They have very fast internet connection like 5G network these technologies improved the accessibility for students and provoke effective learning. This improved the teaching and learning now traditional classrooms are convert to Virtual Classrooms. Every Students have his own learning pattern with Technology we can take a deep analysis of it and get desire results. It includes lifelong learning and gives skill based education. This Technology connect us to global world.

Over the years, education has moved from traditional blackboard teaching to a dynamic, technology-driven model of learning. What once involved teachers writing notes on a board and students passively copying them has evolved into an interactive and personalized experience made possible by digital innovation. In the past, physical presence in classrooms was essential. Today, however, learning can happen from anywhere, thanks to the internet and smart devices. According to a 2022 report by UNESCO, over **1.5 billion students** globally were affected by school closures during the COVID-19 pandemic, which significantly accelerated the adoption of digital learning. As a result, more than **90% of countries** implemented some form of remote learning marking a historic shift in global education.Digital learning tools such as Learning Management Systems (LMS) — like Moodle, Canvas, and Schoology — allow teachers to upload lectures, track student progress, and assess performance online. Unlike traditional classrooms that operated only within certain hours, digital learning platforms are accessible **24/7**, making education more flexible and learner-centered.

Furthermore, mobile technology is becoming increasingly important in modern classrooms. As of 2023, nearly **73% of students worldwide** use smartphones as a learning tool. Educational apps like Google Lens, Khan Academy Kids, and ClassDojo help students explore concepts visually, interactively, and independently. Even in areas with limited resources, initiatives such as solar-powered tablets and offline apps are being introduced to bridge the digital divide.

Artificial Intelligence (AI) and Big Data are also reshaping education. AI-powered platforms like Century Tech and Squirrel AI adapt learning content based on a student's pace, strengths, and challenges. This ensures **differentiated instruction** — something that was much harder to achieve in the traditional one-size-fits-all classroom model. These platforms can also predict student performance, provide real-time feedback, and suggest personalized learning pathways.

Digital whiteboards, augmented reality (AR), and gamified learning environments have made classrooms more immersive and collaborative. For example, tools like Nearpod and Kahoot! turn lessons into interactive quizzes and polls, increasing student engagement and motivation. A study by the Bill & Melinda Gates Foundation found that **interactive digital content can improve student performance by 30%** compared to non-digital methods. Additionally, the rise of **Massive Open Online Courses (MOOCs)** offered by platforms like Coursera,



FutureLearn, and Swayam (India) has allowed millions to access high-quality education from top universities — often for free or at low cost. These platforms are especially popular in developing countries, where traditional educational infrastructure may be lacking.

Digital learning is also changing the teacher's role. Instead of being the sole source of information, educators are now facilitators, using digital tools to guide and support studentled exploration. Smart classrooms equipped with cloud storage, auto-grading software, and analytics dashboards are helping teachers save time and focus more on individual student needs.

Online Learning Platforms and E-Learning System

Digital Classes like Google Classroom, Learning Management system and edX have made knowledge availability more accessible. These digital playgrounds offer content video lectures, online books and gives a great online test system. Teachers can give any kind of work to students and take digital attendance, and grade student's performance with using excel and online grading system. E-learning platform monetizes a student's progress very effectively. If a student don't present in a class he can watch his lesson video later when he will free so this will make knowledge more time accordingly. The best thing is students in rural areas can also access his lessons, making education more equitable. It provides students new opportunities and high quality educational content. It improves the learning flexibility for online learners and make a attractive platforms as compared to physical classrooms. E learning also gives a wide range of tools and features to support teachers. One of the major key benefit of E learning is to cater different styles of learning. Also teacher can assess each student individually. Electronic Learning is an essential part of 21st Century Education. These Technology is improving and developing time by time. Pupils can record their lecture and watch anytime in their own pace. Student which cannot take physical classes this creates best opportunities for them. The major aspect is time flexibility the real interaction can sure by using these technology. It removes all geographical barriers regarding taking education and allow to take global learning. However it is visual and audio file, Interactive video lessons are present for students. Different animations of lessons. We can take different guizzes to enhance the personalized learning. Some students may learning process is effective by watching video lessons rather than reading traditional textbooks. One of the main beneficial aspect of e learning is teacher's development. Teachers can access many educational training videos and content. E Learning tools that make job easy for teachers. It is very effective. By these e learning tools students' assessment will be more efficient and administration burden reduces. LMS learning management system are become more advanced. Adaptive learning techniques, Do lessons by gaming enhance the learning process. It very much engages great educational experiences. This empowers the learners and teachers making learning more effective and equitable for all the students across the world. Digital Learning Strom during **COVID-19** Pandemic

In Corona pandemic everything was changed. Schools were closed everywhere in the world, and Traditional schooling converts into digital learning. Students and teachers have to adapt the modern technology to meet the global world so they learn how to use online learning system. This shift creates a chaos and difficulty. In corona power and impact of technology is showed in education. Digital learning platforms are very important for students and teachers. Many schools adapt hybrid system to get their desire learning outcomes. This method provides a flexible timetable for students and teachers without any limitations. In That kind of bad pandemic a sense of education technology arises Most of the Students and Teachers are convert their physical classrooms into online class room. It was a big change for everyone. The one good thing which are develop in institute was the additivity of technology.



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This Time called digital storm in education sector. This was a time that challenges and problems are created in start. These challenges highlights the importance of modern technology in education. Digital tools became a need for learners. This become essential for educational proceedings .Many institutes introduced mixed learning models, like a tutor is teaching by technology in online classroom. This will able to achieve desire learning outcomes. In lockdowns when all are restricted to be in home online teaching will introduced. A sense technological awake in education will arise. Students and teachers who had never used online learning tools they learned how to take virtual classes submit their homework and communicate with their pears and teachers. This makes a positive change and create a sense of acceptance regarding these technology and have effective understanding of modern educational technology. This time assures the development of technological adaptability in students and Teachers they become more techy and students feel very much comfortable with their own pace of learning. This changes the whole education system. This storm open a door of new ways of teaching and learning that shapes the future of student's education. COVID-19 pandemic brought an unexpected halt to everyday life-and education was no exception. Almost overnight, classrooms around the globe went dark, and school buildings were closed indefinitely. What began as a health crisis quickly turned into a turning point for the education system. Teachers, students, and parents were thrust into a new world of digital learning, often with little preparation.

According to the *World Bank*, over **1.6 billion learners in more than 190 countries** were affected by school closures at the peak of the pandemic. This unprecedented disruption forced schools to shift quickly from in-person teaching to online learning formats, creating what many call a "digital learning storm." It wasn't just a change in platform—it was a complete transformation in mindset, tools, and techniques.

In the beginning, the shift was difficult. Many educators had never taught a class over Zoom or Google Meet before. Students had to figure out how to use digital classrooms, submit assignments online, and stay motivated without the structure of a physical school. Families had to make adjustments too, setting up home learning spaces and balancing work-from-home responsibilities. In areas with limited internet access, the digital divide became painfully visible.

Despite the chaos, a powerful realization emerged: **technology is no longer optional in education**—**it's essential.** Schools that had previously resisted technology adoption suddenly began integrating tools like Microsoft Teams, Google Classroom, Seesaw, and Edmodo to maintain learning continuity. In fact, *UNICEF reported* that during the pandemic, **70% of countries rolled out remote learning policies**, combining online, TV, radio, and print-based materials to reach students. Hybrid and blended learning models started to take shape. Many institutions adopted a flexible system where some classes were held online, while others used pre-recorded lessons or asynchronous platforms. This gave students the freedom to learn at their own pace, and teachers more tools to personalize lessons. It also fostered a stronger culture of independent learning and digital responsibility.

Interestingly, the pandemic became a time of discovery for both teachers and students. Educators learned how to design digital lesson plans, use interactive tools like Padlet or Kahoot!, and measure student progress through digital assessments. Students, in turn, became more confident in using technology, learning how to troubleshoot, collaborate virtually, and manage their schedules. One of the most lasting outcomes of this period was the growth in **digital confidence**. A teacher who had never used video editing software now uploads weekly video lectures. A student from a remote village now submits homework via Google



Drive. These may seem like small changes, but they represent a massive shift in the way learning is approached in the 21st century.

This period also emphasized **emotional resilience and adaptability**. Educators didn't just teach content—they supported students' mental health, maintained connection through screens, and created community in times of isolation. Technology, in this case, became not only a bridge for education but also for human connection.

The digital learning storm of the pandemic, though disruptive, opened the door to a more flexible and future-ready education system. It taught us that while technology may not replace the warmth of face-to-face learning, it can **enhance accessibility, personalize instruction, and prepare students for a digital future**. In many ways, the pandemic didn't just change education temporarily—it reshaped it permanently.

Artificial Intelligence (AI) in Future Education

Individual Learning with AI (Artificial Intelligence)

Education is complete Change with Artificial Intelligence (AI). This transformation is very remarkable AI (Artificial Intelligence) have a very detail learning analysis of a student. Aspects like speed and his cognitive level. Depending upon the result it can create a personalized learning platform specially design to meet the learning of a student. This means each student can learn by their own way. The future education cannot be carry without AI(Artificial Intelligence). In all areas of education AI(Artificial Intelligence) is used very much to solve the problems to develop a understanding about content a huge amount of data are present in Chatgpt, Deep seek and in many more websites but we should monitor our pupils when they are using it. This is a very great technology which enhance students learning process. The future of education is very much dependent on AI (Artificial Intelligence). In future education AI (Artificial Intelligence) is being the must. Every Information are present in AI (Artificial Intelligence). Students can make ppts. They can make their educational project with the help of AI. They can trained their models. They can do their homework with the help of AI (Artificial Intelligence). Students can take answers and can solve their queries and doubts. They can do their research very effectively. They can collect data of their regarding subjects. They can solve their math problem. They can get their study Material and quality content for their future. I can't see the future of teachers without using AI (Artificial Intelligence) in their teaching practices. Specifically a AI system for education must be made for students learning. Which is program according to students needs and according to student's mental level. Student's cognitive skill very much enhanced while using this technology. Students Curiosity increases while they use AI and pupils trying to know the Imagine a classroom where every student is learning at their own answers that don't know. pace, receiving exactly the help they need, when they need it. That's the power Artificial Intelligence (AI) brings to the future of education. It's not just a tool anymore—it's becoming a learning partner.

AI has already begun transforming classrooms across the world. Systems like **Socratic by Google**, **Khanmigo by Khan Academy**, and **Quizlet AI tutor** are giving students personalized guidance that used to only come from one-on-one tutoring. These tools can identify where a student is struggling, offer simpler explanations, and adapt lessons based on the learner's progress—something even the best traditional textbook could never do. What makes AI unique in education is its ability to understand learning behavior. It doesn't treat every student the same. It observes things like **response speed**, **attention span**, **mistake patterns**, and **comprehension levels**. Based on this data, it builds a learning path that suits each individual—whether they're a visual learner, someone who learns best through problemsolving, or someone who needs repetition and feedback.



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In the near future, we may see fully AI-driven personal tutors that work with students from kindergarten to college. These tutors will not just explain concepts but also give emotional feedback, offer motivational nudges, and adjust the difficulty of tasks based on stress levels and concentration—tracked through sensors or input behavior.

AI is also becoming a **valuable asset for teachers**. It can help with automatic grading, analyzing student performance trends, and even creating tailored assignments. This saves teachers hours of administrative work and allows them to focus more on mentoring and emotional support. Platforms like **Century Tech** or **Squirrel AI** already do this in some countries. During the COVID-19 pandemic, many educators saw how AI tools could support virtual classrooms. Students used AI to **generate project ideas, improve writing with grammar tools, and solve math equations step-by-step with visual breakdowns**. Now, these habits are becoming a part of regular education routines.

AI is also helping break down barriers in education. Language translation tools powered by AI help students from different backgrounds learn in their own languages. Text-to-speech and speech-to-text tools are empowering students with dyslexia or other learning challenges to access content more easily.

Of course, with all these benefits, there are also **important responsibilities**. Students must be guided to use AI ethically—learning **how to think**, not just how to search for answers. Teachers and schools must teach students how to question, reflect, and analyze, even when they use AI tools. In the future, AI might be as common in classrooms as calculators once became. But it won't replace teachers. Instead, it will empower them and their students, offering support, insights, and resources that make learning more **inclusive, exciting, and effective**.

AI Tutors and Smart Learning Tools

In the future AI robots change the whole game as a tutors it is good but in a limited way. They can't replace the teachers but helps the teacher very much. AI Tutor can easy elaborate the lessons by their modeling system and they can answer the questions very easily and can give effective feedback.AI learning tools like Chabot's help students in their homework. If a student have a problem he can ask AI and get answers very quickly. Language Tools like Grammarly is very great for the students to learn English application like Duo lingo, helps the students very effectively, solve the questions. The tutoring are also Shift physical to AI advancement tutoring with more Efficiency and accuracy. Modern learning tools are very much helpful for students they are like Weapons which they used in their competitive exams.AI tutoring system have a best system of feedback to give all answers which they want to know. It can effectively tackle tricky questions of students and can give effective answers to enhance students learning process.

In today's tech-savvy world, students are no longer dependent on just one source for learning. **AI-powered tutors and digital tools are stepping in as personalized learning assistants**, offering support that feels less like a robot and more like a helping hand.

Let's face it—every student has faced a moment when they didn't understand a topic but felt too nervous to ask in class. AI tutors like **Socratic by Google** and **Photomath** are now there to fill that gap. These apps let students take a photo of a question and walk them through the solution step-by-step, instead of just giving an answer. This builds understanding, not just quick fixes.Unlike the traditional one-size-fits-all approach, **AI tutors adjust to each student's learning style**. Some students learn best through visuals, others through repetition or hands-on activities. AI tools recognize this and deliver content that fits each learner's preference. For example, apps like **Century Tech** use student behavior data to design customized learning paths.



Teachers are also getting a major boost from AI. Smart tools can handle tasks like **marking quizzes, organizing lesson content**, and even **tracking student progress**. This frees up valuable time for teachers to focus on real interaction and emotional support—things AI cannot replace. In rural or underserved communities, where students may not always have access to expert teachers, AI tutoring systems are filling critical gaps. Programs like **Mindspark in India** have already shown success by helping low-income students improve their math and reading skills with AI-based lessons tailored to their needs.

Then there are smart assistants like **Quillionz**, which help educators generate quizzes, summaries, and feedback within minutes. For a teacher managing large classrooms or remote lessons, this kind of support is a game-changer. Another powerful tool is **voice-based AI tutors** like **Google Assistant in education mode** or **Amazon Alexa's learning skills**. These allow younger students to interact with lessons through voice commands, making it easier for early learners or children with reading difficulties to access educational content.

But it's not just about solving questions—it's also about building habits. Many AI learning platforms encourage consistency. Apps like **Duolingo** reward users for staying on track with daily learning streaks, turning education into a habit instead of a chore.

Despite all these advancements, it's important to remember: **AI is a tool, not a teacher.** It cannot feel empathy, understand student anxiety, or replace the guidance of a passionate educator. What it can do, however, is **support learning, make it more engaging, and help students become more independent**. In short, AI tutors are not here to replace anyone. They're here to make learning more **personal, accessible, and efficient**, offering a digital helping hand whenever and wherever it's needed.

Challenges and Concerns in AI-Based Education

When students use AI major challenges were occur which we need to solve on the go.AI is depending upon a large amount of raw data. Most of the time data is not correct and can be biased, it can give wrong example wrong suggestions wrong content. All students don't have the facility of internet and have good devices like phones tablets laptops and smart classrooms, AI is not helpful for everyone. There is a very big fear that AI replaces human teachers. The opinion of experts that AI can helpful but human teachers are very important for emotional needs and proper guidance. Child can misuse these technologies without supervision of tutor and parents. Creativity decreases with that. Student's skills are compromised with these types of technology. We must take a deep supervision when our pupils using AI. The commands which are used to take data should be concerned with teachers. Online monitor system should be arranged for students. AI also gives the wrong data if we give wrong command to it. Machine Learning is developing time by time. 100 percent accuracy cannot getting while using these type of technology. The main problems of AI is dependent on very big amount of raw data which are not processed properly this data can be wrong most of the time. AI gives wrong answers and give wrong suggestion for problems, this can mislead the learning. It can give irrelevant content regarding lesson of students. All students have cant access the digital gadgets like smartphones and laptops. One main reason is a stable internet connection which the learning is depend on it.

This is called **digital divide** it makes difficultly for learners. There is a fear one day AI replace human teachers. This is a very big concern and a criticize topic but educational experts opinion show that AI can help in learning of student and automate professional tasks but it can't give emotional support and can give proper guidance that human teachers provide. Educators takes a important role in understanding each students learning needs. Without proper a guidance from teachers or parents, students can misuse AI tools like copy



their homework and watch inappropriate content. This will slow down the personal growth of students. Major aspect like creativity is neglected in students. It is very important to sure that AI is only used as tool for students learning. To solve these problems institute and educators must take some actions like Properly Supervised the students while using AI .Teach the students how to give right command prompts. Using effective online monitoring system. Educating the students regarding ethical use of AI. It's very important to keep this in our mind that machine learning technology are growing. AI see like a helpful assistant but not a permanent and complete solution. AI is a great addition in classroom proceedings, but it must be used very carefully educators and students must work together. AI is enhancing the education system not replaces the teachers. It can be dangerous if we totally dependent on AI. Rise of Virtual Reality **(VR)** Technology in Global Education VR for Experience based Learning

When we talk about Virtual Reality (VR) we talks about 3D world which a user can experience real world wearing VR headset. Example Instead of visiting China, students can explore the Great Wall of China using VR. This is an immersive experience for the students. And enhance their understanding about the syllabus. VR is very useful in the critical subjects like science and Geography. Students can do various experiments. They can visit many places by sitting in their Classrooms this will give them the hands on experience for better understanding of their concepts. A Very big issue in VR is that it is very expensive. This a very much big concern in education system. Only High cost schools have this facility. This technology need a fully equipped classrooms with adaptive teachers and students. This technology is very much used in Medical Colleges for MBBS students they can see the operations virtually and can see every organ of human body and their functions as in science students they can see solar system they can study environment virtually they can take a very good experience from VR. This is a immersive technology which can used in education and students learning experience is very much enhanced.

Benefits of VR (Virtual Reality) Classrooms with Effective Stimulation

Classrooms which are using VR (Virtual Reality) can stimulate the brain of the students. When students are interactive with VR (Virtual Reality) there critical Thinking will developed. Students of science can explore many things like Discover Oceans, Can go underwater through VR (Virtual Reality) headset. Immersive sound with audio head set can stimulate the student very effectively. Tutors use VR (Virtual Reality) to create different effective learning Situation based on the chapter. This overcomes laziness and increases student's interest. In the future VR (Virtual Reality) Headset will be presented in every global class room. As like pilot stimulation a student can see whole setup to cockpit how to fly the plane and how to make a very good project with VR (Virtual Reality) and explore each and every part of a system. Students can see the whole world whenever or which country which place they want to visit and a good audio setup with VR (Virtual Reality) is very important to explore VR world.

Future of VR (Virtual Reality) in Global Education

VR (Virtual Reality) becoming the future of education in the schools. VR (Virtual Reality) headset prizes coming down with the passage of time and effective educational content developing day by day. We see schools in the future which they are using VR (Virtual Reality) as essential part of teaching and learning. In integration of VR (Virtual Reality) in classrooms, we need trained and technology adaptive teachers. Where they understand the use of VR.VR is a future proof plan for effective education and we can get our desire learning out comes. But there are many issues while using VR (Virtual Reality) like Poverty. Students in rural areas cannot access this technology to get great advantages. In china VR technology



is used in their school to detect students learning. They have that technology to take analysis of students. Developed countries implemented this technology in their classrooms proceedings. Teaching Pedagogy are also changing with these future proof technologies. Traditional classrooms are gone in privileged and developed countries. That is the reason students are getting great exposure regarding their future field. In VR we can see things in 3D like in ancient time's dinosaurs were there. We can see dinosaurs and there world. We can see Egypt and study their history.

Digital Divide: Inequality of Access to Education Technology

Concept of Digital Divide

Digital Divide is the distance between the technology user and non-technology user. Those who don't have a proper access to technology. In the area of education, Most of the students don't have gadgets. There are very few students which can afford these types of gadgets but the ratio is very low. This divide becomes very clear in economic developed countries and in rural Villages. Many students can't attend their online classes during corona because students do not have good devices and don't have good internet connection. The Biggest reason that limits the student's progress is digital divide. If we solve this problem as an educator the pupil's success were guaranty. Some teachers are not being responsible for this type of student problems. They should be concern with their students genuine problems are repeat the work in the classroom so student can do their work properly and Teacher get their desire learning outcomes there are many solutions to overcome these things which I discussed in my article. We should make a proper plan to solve this big problem. In this time every one have smart phones as an educator we should develop a technology in smartphones for student's education. Digital divide is a very big problem in our educational System. As a teacher as an policymaker we must address this issue deeply and take an effective analysis we must assure equal chances for all learners. Most of the teachers are not recognizing this problem. Students struggle very much for education. To solve this problem teachers should show empathy they can repeat lessons while they are present in classrooms teachers can help the students by providing free books for deserving students We should make a mobile friendly application so students can repeat the lesson videos teachers should compromise the attendance aspect for students so they cannot be terminated by institute and have fair chances. Impact of Poverty in Students

In poor family students don't have access to goods gadgets so there studies becomes down. Grades are very much low. Loss of interaction, and in most of the cases they drop out of the institute. This makes a whole cycle of poverty in education, where students can't get good job opportunities because of low education and minimum skills. Digital divide increased the inequality between students in our education system and makes harder the situation for poor students. They don't have equal chances to get knowledge and success. But this not a bad thing There are many solutions and technique which I found to overcome these aspects. As an educator my responsibility is to solve as I can do that. Sadly this hurts very much as an educator thousands of students are not getting a fair chance To get a basic right called education we all should take a step to solve this big problem. Why we have three types of biased education system like low cost middle cost and high cost school who made these sectors to divide a basic right called Education As an educator my question is why. Students have also create some potential to remove these gaps motivation is very important. Everything starts with a vision all stakeholders should make a vision to remove these gaps. As an educators we have some responsibilities as a citizen of country we should take care of this matter that everyone have a chance to get quality education

Bridging the Education Gap between privileged and UN privileged (Solutions and Plans)



To remove these gaps government and private sector need to work together. There are many solutions like providing free internet in unprivileged areas so students can access easily. Give latest gadgets like laptops, tablets, and smart phones according to student needs. Properly Train the educator and students. Develop them that they can use digital tools and online platforms. Build computers Cafes in every area and get it free. Create an awareness in students of education so they can achieve anything in life new opportunities are waiting for them many of talents can polished by create an effective education system in un privileged area. The famous chains of best education system must be move in these areas. Education funding is a main thing which are neglected very much. A Big budget should be allotted for enhance literacy rate in every country. We should take example from fully develop country like china they are far much better education system which revolutionized the whole education system. Government and organization takes an initiative to tackle these major issues. Donations can be an effective way to remove educational gaps between the students.

Revolution in Education with Emerging Technology

Transformation of Teaching and Learning Models

Technology has totally changed the way that how teacher teaches and students learning pattern. The role of teacher is convert from just give the raw information to explain students with digital learning tools and online resources. Students are no pro longer very good listeners and not a very nice participator in various discussion groups, now they would like to watch their lesson videos instead of the traditional way, and makes most of the projects online with their pears. Now their timetable is very much flexible and convenient in higher education online learning makes revolution because some students doing job and carry their online studies together so this online learning is the best way to carry their studies and doing implementation what they learn in their studies some students have family burden on their shoulder they must have to earn to feed their family so online learning is like blessing for those students. The fee of online learning is very minimal and they are no regional dependent so many campuses are built for students facilitation There fee also paid online. their lectures, feedback all the things including in their learning management system Which is called LMS the biggest example of online learning platform in Pakistan is Virtual University of Pakistan many thousands of students taken admission on this universities to facilitate their learning and the betterment of their lives. I also graduate from Virtual University the main great aspect is you take lecture whenever you want and whenever you are free. Students also decide Exam dates and exams location It is giving flexibility for students this a Revolution in education system we want to make more institution like this to enhance literacy rate in every country. Game-Based Learning

This type of activity makes the learning fun full for the students they show very good interest in their studies. Educational games creates brain storming between the students and reward them by positive reinforcement .Motivation are built in students and engagement also enhanced. Games that include puzzles can improve logical and critical thinking. As an aspect of Language it improves the vocabulary and grammar among the students. Games emphasizes and promote the Team work. Students play together and learn many new things. This type of learning is makes the learning meaningful and attractive. There many project based games which are available in different websites. This is a very good and effective method to enhance the learning experience of the students we can create a brainstorm sense in student Fun with learning is a great concept this is including the modern teaching methods Many websites are available for Game Based learning. Various aspects are concern in this method like student's critical thinking and engagement improved. It developed a logical reasoning and problem-solving skills in pupils. Language are developed during playing these



games it improves student vocabulary and grammar. Classroom proceedings look very interactive and have like real life based scenarios. It develop a skill of teamwork in students. They collaborate and discuss different strategies to solve the problems. They learned very much from each other it also increases students social skills builds a relation between students in classroom. It helps the student to solve complex problems by playing. Their progress is increased. Now in our classroom it is the most attractive and valuable way to teach the students. Learning with fun is very important for students.

Empowering Educators and Students for Global Opportunities

Technology gives an opportunity for students and teachers to meet global world. Students can take many online skills and get various courses from top universities in the world it's just a click away, and can take various online seminars and get international opportunities. Teachers also get many valuable training workshops to improve their Teaching Methodologies. This exposure helps the student to get his dream job and can get success in life like computer based skills coding, data scientist, and digital e learning platforms provides experts opinion and supervision upon students. Preparing for the future to meet global opportunities and get success in life. In this global age of modern technology. Educator without having adpativity of technology cannot gain the valuable opportunities. They must be fully trained and adaptive with education technology like using projectors, AI Tools, Software and Programs. As an educator I cannot see my career without using technology In future hiring of teachers they must take a deep analysis of teacher that they should know the knowledge of Technology. To empower the educators technology is the best way. Modern Technology should be implemented on every school in this 21st century.

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