Rediffusion/Edelman

Print coverage report

The Financial Express

Rediffusion/Edelman

Publication Name	The Financial Express
Date	5 th December, 2016
Edition	All edition (11), Page 12
Headline	How virtual reality can be the future of education?

THE FINANCIAL EXPRESS 12 FE@CAMPUS

How virtual reality can be the future of education?

A major way virtual reality will prove to be an advantage in the education sector is making field trips more accessible and cost-effective

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aching and learning eaching and searning have gone beyond the norms of reading from a book and understanding. With the rapid development of technology students are able to better visualise and understand concepts at a much profound level. For example, technologies such as victual reality allows students to ex-perience the pyramids of Egypt through virtual reality headsots, from their classrooms. We have gone beyond the era of using real-worldex-amples to help students and/or trainees connect to the theory of lessons in text books. Virtual reality, sugmented reality and their varia-tions represent computer interface techniques that take into account the

three-dimensional space. Virtual reality will transform the textbook into a real-world scenario. and exponentially speed up the learn-ing process with proper implementa-tion of 3D immersion and virtual re-ality technology in hundreds of classrooms across educationally pro-gressive schools and learning labs throughout the country

One may wonder why this technol-ogy trend will work in education, when we already have a vast amount of technology to help students. The current generation is adapting quickly to the technologically evolv-ing world. They are engrossed in every form of education, and this works as an advantage when it comes to implementing advanced technolo-gles such as virtual reality in education. It is bound to hold the attention of a student as she travels through a three-dimensional landscape on an exploratory route. This concept caters perfectly to the millennial group/youth, setting a scene similar to a movie in which the student is playing the protagonist. This is more likely to keep the student more in-volved, in comparison to sitting idly at the back of a classroom.

at the back of a classroom. Furthermore, visualization of subjects which are not in existence in today's reality presents a challenge for the students. Virtual reality makes this experiential learning po-sible through the creation of these exceptions are period. non-existent environments. For example, if you are a history teacher, virtual reality will give you the op-portunity to explore a historic building or visit a time period such as the ancient Indus Valley Civilisation (Harappa, Mohenjo-daro). Students will be able to explore various as pects, often by using head-mounted display (HMD) and data gloves for interaction in a virtual environment. Keeping the students more en-

gaged through visualisation is one of the proven methods of learning in

young children.

Another major way virtual reality will prove to be an advantage in the education sector is making field trips more accessible and cost-effective. It will help tran-scend distance, al-lowing the virtual presence of students in classes without having to physically visit a place. This also enables large groups of students to interact with each other. as well as within a three-dimensional environment-all In the confinement

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their class-ms. This will specifically prove to be beneficial for students from remote areas in the country, as they will be able to conduct experiments or be part of high end labs without having to travel distances.

The unique ability of virtual reali-ty is that it is able to present complex data in an accessible way to students. which is both fun and easy to learn This can be applied to a wide variety of subjects, ranging from astronomy to human anatomy. The student and the teacher can be present in the same virtual environment, while perform-

ing their practical Education has moved on experiments, and errors can be cor-rected in real-time. from books, pencils and pens, to the use of This process is highly beneficial in the modical and eninteractive technologies that help impart gineering sector, where complex training can now be knowledge. While it is being largely applied in imparted more ac schools and colleges, curately, which oth-

virtual reality can be erwisetook years of practice to achieve taken a step ahead and perfection. can also be adapted for Education has moved on from books, pencils and pens, to the use of training purposes. For example, L'Oreal interactive tech-nologies to help impart knowledge recently launched virtual reality hair education for

salon stylists bins. understand ing. While it can be largely applied to schools and colleges, virtual reality can be taken a step abend and can al-so be adapted for training purposes. For example, L'Oreal recently launched virtual reality hair education for salon stylists. This only goes to show the positive impact that virtual reality has on learning

processes and education. India will benefit largely from the implementation of virtual reality, considering we face a large challenge in providing the right infrastructure and opportunity to students across the country Virtual reality can help bridge this divide through the practi

cal world of learning. The Google Expeditions Pie Program launched in 2015 has al ready allowed over 1 million students from 11 countries to explore virtual worlds using Google Cardboard. Indiais not far off from establishing the same, with global companies like Tata Elxsi, which set up the first virtual reality/visualisation facility in early 2000 and has worked on develop-ing virtual-reality-based immersive content for the education, retail and marketingareas

This sort of experience, going in hand with growing start-up compa-nies in the sector, can help develop the future of education in India, through

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virtual reality. While we are entering the year 2017, it is only safe to assume that we will see the deployment of technolo-gies such as virtual reality and aug-mented reality in the education sector, and India is not far off from connecting children across the coun-try to the world --giving them expo-sure and educational value that is beyond the high standards that we already have. It is only about time that we are the frontrumners in the realm of technology and education. Virtual reality is where the future of ed-tech stands, and India is not far off from implementing and being the frontrunner of this.

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