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AI AND DATA TECH AND COMPUTERS BECOME MORE AND MORE POWERFUL THEY WON'T BE "SUBSTITUTES" FOR HUMANS THEY'LL BE "COMPLEMENTS"



By : M.S.Yatnatti: Editor and Video Journalist Bengaluru : Any amount of e-commerce does not substitute physical hand shake and any amount of e-learning does not replace teacher and CAPTCHA is to defeat the bot as user of computer and recently election commission of India has brought VVPAT (voter-verifiable paper audit trail) or paper trail machines will be used at polling stations in all future elections where polls are held using EVMs to detect computer frauds . A CAPTCHA is a type of challenge-response test used in computing to determine whether or not the user is human. The term was coined in 2003 by Luis von Ahn, Manuel Blum, Nicholas J. Hopper, and John Langford. The most common type of CAPTCHA was first invented in 1997 by two groups working in parallel. Create a company that will build new things (innovation) and help humans solve more complex problems. As computers become more and more powerful, they won't be substitutes for humans: they'll be complements. *The debate of the century...In the future we foresee Artificial Intelligence replacing Humans and their jobs. Will the future tech actually displace humans and their jobs?.* It's easy to say and conclude that Artificial Intelligence could somehow replace us humans in the near future. Due to conventional wisdom. But If you think it that way then you don't understand enough how computers actually work. If you're pessimist about the future taking over us I think you watch too much Hollywood Sci-fi movies. Don't be delusional, don't try to escape the reality we're in. Because the reality we're in is way far different than the one you see in the movies, maybe. The future we'll see tomorrow is in our hands and it entirely depends on us. UNIVERSITIES the world over are struggling with the digital disruption. universities have a choice. They can remain content merchants, and die or they can transform in knowledge brokers and thrive. The IT Enabled classrooms of the today will not be propelled by school and college administrators but by the young learners. Today's learners require new dynamics and new direction which facilitate active learning and new teaching strategies. Conventional classrooms have to modify and co create existing spaces to provide adaptable, multi-use configurations and new pedagogies. According to experts , the 10 signs are technology, integration, collaborative environment , opportunities to create an expression, inquiry based approach, justification for answers, writing for reflection, use of problem solving methodology, hands-on-learning, teacher as facilitator, transparent assessment. universities were never in the content business but in the knowledge business. Without the platform of content, bringing students to the desirable levels of understanding was impossible, degrees to provide first content and then, for those who pursued higher degrees, greater insights and understanding of the discipline. That content is now so readily available is, in experts opinion, a blessing; universities can now concentrate on the business of creating and inducing meaning.

Education is already digital .Several MOOCs of International standards are already available .India need to collaborate with intrnational universities and private institutions. India will enter a new era in higher education on Sunday with the launch of hundreds of courses that will be delivered through DTH channels, tablets and mobiles. These courses have been developed by over 1,000 expert faculty members from premier institutions like IITs, JNU, Delhi University and Anna University .A 'Made in India' IT platform -MOOC (Massive Open Online Courses), or Swayam -will host courses taught in classrooms from Class IX to postgraduation, which can be accessed by anyone, anywhere at any time. All the courses are interactive and available free of cost. Students from various recognised institutes in India will be able to earn credits on clearing these online courses. The then President Pranab Mukherjee launched Swayam, Swayam Prabha -the plat form of 32 DTH channels to deliver the courses -and National Academic Depository (NAD) which will facilitate online verification of certificates. President Pranab Mukherjee launched Swayam and Swayam Prabha to take education to the remotest corners of the country on Sunday . Mukherjee also launched a 'National Academic Depository' where verified educational records will be digitally stored by universities and boards to counter forgery . Swayam and Swayam Prabha -for making education more accessible -and the depository were conceived and executed by the HRD ministry . HRD minister Prakash Javadekar highlighted the importance of teachers as the function was organised on 'Guru Purnima'. As a mark of respect on Guru Purnima, he presented Mukherjee, who started his career as a teacher, a gift which included a "slate" -a traditional writing tablet. Speaking on the occasion, The then Mukherjee said he had always emphasised on "quality" of teaching and learning process in higher educational institutions. He said mere physical expansion might provide access but without physical infrastructure and quality teachers, "the talent which is hidden in young minds would not get the opportunity to blossom". The President also said there were huge differences in the quality of education in urban and rural areas, between states and in educational institutions within a state. Underlining the need for making quality study material available in regional languages, he said pupils studying in regional medium in schools found it difficult when material for higher education was in an alien language. Under Swayam, courses will be offered through digital classrooms with online study material available free of cost in videos. .UGC need to go beyond its swam platform of moocs . University Grants Commission, the apex higher education regulator, sources said, has agreed to factor in scores achieved in official online courses towards total marks scored and transfer credits for them — a move that will mainstream online courses and increase their acceptability and credibility in the Indian higher education system. It will also allow students across institutions in India to take up courses which may not be available at their institute and also win credit for the .. University Grants Commission, the apex higher education regulator, sources said, has agreed to factor in scores achieved in official online courses towards total marks scored and transfer credits for them — a move that will mainstream online courses and increase their acceptability and credibility in the Indian higher education system. A special set of regulations — UGC (Credit Framework for online learning courses through SWAYAM) Regulation 2016 — have been formulated under Section 26 of the UGC Act.

UGC need to go beyond its swam platform of moocs .UGC is not a failure but dismantle it and make and constitute make new entity reshaping UGC as National Higher Education Commission to deal with emerging diverse complexities of hiher education and make use of Moocs as national and international resource of modern education and make them as part of curriculums and on completions of recognized moocs courses award the degrees as blended education systems as recently Georgia State University announced that it will start to review MOOCs for credit much like it reviews courses students have taken at other institutions, or exams they have taken to demonstrate competency in certain areas. . The former UGC chairperson Hari Gautam and first committee set up by HRD minister Smriti Z Irani to review the working of the University Grants Commission cannot belittle UGC by saying that regulator has "failed to fulfill its mandate. UGC has done most commendable job since independence or earlier. UGC can be replaced by another body to deal with emerging diverse complexities that is different issue. The former UGC chairperson Hari Gautam and first committee was set up by former HRD minister Smriti Z Irani to review the working of the University Grants Commission has stolen the idea of Shri Atal Bihari Vajpayee former Prime Minister of India who had recommended setting up of National Higher Education Commission through an act of Parliament. Wherefore claim of this committee that they are the people who are suggesting setting up of National Higher Education Authority first time is nothing but Plagiarism. For this HRD Minister should censure them and initiate action on them as this is an insult to Shri Atal Bihari Vajpayee former Prime Minister of India. One of the first committee set up by former HRD minister Smriti Z Irani to review the working of the University Grants Commission has said that the regulator not only has "failed to fulfill its mandate but also has not been able to deal with emerging diverse complexities. Headed by former UGC chairperson Hari Gautam, the committee has said any "reshaping or restructuring" of UGC "will be a futile" exercise and so will be amending the UGC Act. Therefore, it has recommended setting up of National Higher Education Authority through an act of Parliament. It has also prepared a draft of the bill but said that till the time such a body is set up, HRD ministry can bring about many changes through executive order. Exam Reforms: Universities must change: Indian Universities must adopt open book examinations system as prevailed in USA and other developed countries as our Universities test memory capacity of students and not the knowledge or wisdom of students. Union Government and UGC need to debate on online education with DEB outsourced labs before finalizing national policy and regulations on distance education . Higher education today is undergoing a radical change, posing new age challenges to universities and NAAC should rise to the challenges and face it head on and solve the issues of standardization of online distance learning. Instead of colleges only Labs needs to be outsourced as computer is class room , computer lab, play ground for online gaming ,library ,research center ,online mentoring ,online chat ,video conferencing and face to face online Online government are possible and run then why not online education with live teachers and outsourced labs online examinations and online evaluation and results and entire management of University with University management systems and UGC can manage it on real time basis on dash board every day and every minute for all Universities and research centers .UGC should formulate new education policy on online education with outsourced Research Labs with Lab Instructors /Teachers and specially trained online professors. Complete digital transformation with outsourced Labs and Excellence in technology that enhances teaching, learning and research and outsourced Labs is present and future of Digital Universities Education .Time is ripe .Educators need to adopt the technologies to impart education. Online education clubbed with outsourced Lab are the future of education .You agree or agree not to agree. This is a reality written on the walls on universities .Entire teaching and learning revolve around minds Getting and sustaining their attention and interest holds the key to success in this tricky process. Teaching and learning can be tech enabled. Smartphone's tablets desktops laptops computers have become class rooms Library laboratories and research centers and playgrounds and virtually become everything. Sakai is a vibrant, international community that collaborates to create technology that enhances teaching, learning and research. Member organizations include large universities and small colleges, K-12 systems, hospitals, government organizations, research societies and political parties. In 2004, four leading U.S. universities, together with Jasig, the parent organization of the uPortal portal framework, began a collaboration to combine and synchronize their assorted learning software into a collection of integrated, open source tools.

Too many regulators and Too many boards LIKE UGC AICTE NCTE AMCI DEB and Too many hurdles and Unlimited corruption .Government need to Convert UGC AICTE NCTE AMCI DEB into a single body and Rename it as Higher Education Commission. Indian education system is at cross roads Revolutionize the entire education system and make it simple. Rational thinking is need of the hour .Old norms need to be changed .Modern times are changing .It is generation Gap . Government need rationalized the education system .Government need to make the matter simple as Once Higher Education Commission approves University should give affiliation for five years and within that period let that institution gets NAAC approval and leave students free to join any NAAC accredited institution But every year approval drama need to be stopped. Government need to dismantle the university affiliation system completely; it is an obsolete relic from colonial times License Raj or Inspector Raj. Today's generation is more intelligent at 10+2 and life span is less than earlier and make it as new degree level. Why not think of 10+ 2 as Degree and change the curriculums as per appetite of students .Why 10+2+3 or 10+2+4 are olden norms and it is waste of time .About 25 years go in studying and only 25 years remains for work. Let the UGC stop dictatorship and stop threatening stoppage of financial grants and allow Universities to adopt innovation. 3 month certificate courses 6 month certificate courses 9 month certificate courses on year certificate course 3 year degree course and 4 year courses . Universities are autonomous bodies and their autonomy need to be protected. "AIUPASA NATIONAL PRESIDENT MUMTHAZ AHMED KHAN MOBILE NUMBER 0-9916390790 demands Honble HRD Minister Smt Smriti Irani to issue direction to UGC to respect autonomy of Indian Universities and instead of confrontation have conciliatory mode of communication with Universities .Need to Dismantle unlimited corruption that allegedly exists in UGC and virtually UGC officers dictate terms to Universities and colleges while disbursing grants given by Central Government mean for Universities and colleges .UGC and University officers nexus and grants System which is root cause of unlimited corruption in UGC and Universities all over India and revamp UGC Grant systems and Make Inter-University transfers of Professors as all get UGC Scale and seniority at UGC levels and appoint them like IAS/IPS cadres". "(AIUPASA) is the voice of UNIVERSITIES Partners, Affiliated colleges and Study centers in particular and Education professionals in General. Request is made to join as member of (AIUPASA) and or submit your grievances which you are facing with Universities".

Heavy Demand for Online distance learning : Online government are possible and run then why not online education .Lot of teachers are trained to teach online and many teachers teach US students from India. When central government is providing TABLET computer and smart phones to every students at very affordable cost and 3G connectivity is available and online education is becoming reality through videoconferencing and video call. A new era of online education is dawning India and abroad .The LABS are outsourced to study practical's in engineering and science education for distance learning students without sacrificing quality of education. Engineering education through distance learning will make poor students to study engineering without botheration of huge donations /corruption / hurdles of entrance examinations and provide equal opportunity to study engineering and MHRD need to really commend the efforts of many universities in this respect. There is an increased use of virtual classrooms (online



presentations delivered live) as an online learning platform and classroom for a diverse set of education providers. E-learning comprises all forms of electronically supported learning and teaching. The information and communication systems, whether networked or not, serve as specific media to implement the learning process. The term will still most likely be utilized to reference out-of-classroom and in-classroom educational experiences via technology, even as advances continue in regard to devices and curriculum. E-learning is essentially the computer and network-enabled transfer of skills and knowledge. E-learning applications and processes include Web-based learning, computer-based learning, virtual classroom opportunities and digital collaboration. Content is delivered via the Internet, intranet/extranet, audio or video tape, satellite TV, and CD-ROM. It can be self-paced or instructor-led and includes media in the form of text, image, animation, streaming video and audio. Abbreviations like CBT (*Computer-Based Training*), IBT (*Internet-Based Training*) or WBT (*Web-Based Training*) have been used as synonyms to e-learning. Today one can still find these terms being used, along with variations of e-learning such as e-learning, Elearning, and eLearning. ICT Information Communication Technology brought Government's online by e-governance initiatives, banking online, Businesses online, Telemedicine is all set to revolutionize healthcare as it link patients from small hospital to the urban specialist and now universities online are all set to revolutionize education and research.

Government need to dismantle the present university affiliation system ; it is an obsolete relic from colonial times License Raj or Inspector Raj." the affiliation system persisted only in India and a few developing countries and these Universities are only affiliating universities with its University professors instead of teaching and research are busy in LIC and heavy preoccupation with bureaucratic procedures and excessive centralization, the affiliation set-up was a huge obstacle to the pursuit of excellence in India's higher education scenario..The university affiliation system and every renewal systems is breeding ground for heavy corruption in University and that is how it is alleged that VC and syndicate members posts are up for sale in University and the colleges which do not bribe are forced to go to courts unnecessarily .For instance, it is alleged that the state legislations on appointment of Vice-chancellors (V-C) in a few states, the chancellor, who is generally the governor, is required to consult the state government in selecting the name of a person from the panel submitted by the search committee. Reportedly it is an open secret in some states that the ministers demand from the persons in the panel to shell out a few crores to be appointed as V-C. Currently, in one state the amount ranges from Rs 5 crore for smaller universities to Rs 50 crore for large universities with hundreds of affiliated colleges. V-C aspirants accept the bait as the amount could later be collected from the affiliated colleges and from the various appointments and promotions in the university. Hopefully, the proposed mandatory accreditation process will help raise the credibility of academic programmes of such institutions.The Apero Foundation, a non-profit organization which sponsors a range of open source projects and software communities serving higher education, today announced the availability of Sakai 10. Sakai is an open source learning management system that provides a flexible and feature-rich environment for teaching, learning, research, and other collaboration. Sakai 10 features two new tool contributions to Sakai core, better support for audio and video using HTML 5, infrastructure improvements, about 50 security fixes, performance improvements, and a number of new features. Extensive documentation is maintained and continuously updated. The community went to great lengths to guarantee the quality of the software through rigorous testing and the application of close to 2,000 fixes."Sakai 10 is the most innovative Sakai release to date, with dozens of contributing institutions and organizations to thank for that." . Over 40 institutions and organizations contributed to the development of Sakai 10, including Columbia University, Duke University, Universities van Amsterdam, Université du Littoral Côte d'Opale, University of Oxford, and Yale University. Apero Commercial Affiliate contributors include AsahiNet International, Longsight, and Unicon. As an open source software suite developed by its adopter community, Sakai continually evolves in step with the needs of the students, faculty members, and organizations it serves. Planning for Sakai 11 is currently underway. Colleges, universities, governments, and other organizations deploy Sakai's rich toolset to expand the possibilities for technology-enabled learning across many facets of the educational experience. Sakai is mature technology, the product of many thousands of person-hours of development over the last ten years.AboutApero: The Apero Foundation was formed by the merger of Jasig and the Sakai Foundation in late December 2012. Sakai and Jasig had pioneered the production and adoption of open source software for higher education for over ten years. Apero will take that work further, providing a more rational and improved organizational umbrella for a range of projects and software communities serving higher education. The core mission of the Foundation is to "assist and facilitate educational organizations which collaborate to foster, develop, and sustain open technologies and innovation to support learning, teaching, and research." Learn more at www.apereo.org.Their primary goal was to improve teaching, learning and research by providing a compelling alternative to proprietary learning systems, an innovative platform for learning and collaboration that is produced by and for the higher education community. The University of Michigan, Indiana University, MIT and Stanford University, soon joined by the University of California, Berkeley and Foothill Community College, each contributed existing tools to the project, which was originally funded by a grant from the Mellon Foundation. The largest of the universities' contributions was the University of Michigan's "CHEF" course management system, which led the original work team to name the project after famed Iron Chef Hiroyuki Sakai. With this auspicious beginning, the Sakai project was born. The java-based Sakai project became freely available in March, 2005. Later that year, Indiana University became the first institution to shift away from its legacy systems to the new, open source learning system. Others soon followed. An Open, Community-driven Learning Platform: The Sakai project was a pioneer of the "community source" model of software development. As open source software, the Sakai code has always been freely available for anyone to download. It carries a license that grants users the right to deploy, modify and distribute the software at no cost and for any purpose. Sakai is also considered "community source" software because much of the initial investment for producing the software came from the collaboration and contributions of institutional community members as well as individuals. Many colleges, universities and some commercial firms commit resources to help design, build, test, and refine the software on an ongoing, voluntary basis. Support from the community lends stability and direction as community members identify priorities, collaborate to produce the software, and shepherd product management over time.



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