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AI:10

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**TECH
EDUCATION
ON THE JOB
AND AT
SCHOOL
NEEDS A
MAKEOVER
TO KEEP UP
WITH THE
FUTURE OF
WORK**

WHAT'S HOT

Toyota VC invests in AI startups, firms that refine everyday processes

SPECIAL AI FEATURES

AI For +VE Change: R&D and Commercialisation

Toyota VC invests in AI startups, firms that refine everyday processes



SOURCE: REUTERS NEWS

Toyota Motor Corp's first venture capital fund is investing in startups that help the Japanese automaker refine everyday processes by bringing sharper supply-chain management and robotics to the factory floor, a fund executive said. The Silicon Valley-based Toyota AI Ventures fund, with \$200 million under management, has so far invested in 36 early-stage startups, including self-driving car software firm Nauto, factory video analytics company Drishti and air mobility firm Joby Aviation.

Toyota, the world's largest automaker by vehicle sales, and many car companies such as Volkswagen AG are funnelling money into startups to help gain an edge in artificial intelligence as investor interest shifts to self-driving cars. For instance Toyota, which has dozens of factories around the world, wants to be able to quickly share the lessons learned at one plant across other plants so that efficiencies are maximised, Jim Adler, the founding managing director of the fund, told Reuters in an interview.

"If you look at cloud computing, for example, and cloud robotics, and fleet learning, when one robot learns something, the rest of the robots automatically learn that thing," he said.

Adler, a former Lockheed Martin rocket engineer and a serial entrepreneur, said that while the fund and the automaker work closely together, the fund had a good degree of independence from Toyota because taking every investment opportunity to the carmaker's management would be too much process.

"We are at the edge of this Toyota ecosystem," said Adler.

"Being between the outside world and the inside world of Toyota, we are this sort of semi-permeable membrane that brings outside influence into the company."

The automaker this year started Woven Capital, an \$800 million venture capital fund to make growth-stage investments in companies including those in the Toyota AI Ventures portfolio. ■

ASIA NEEDS ESG TO BOOST LONGER-TERM GDP GROWTH: REPORT



Focusing on green investments could stimulate economic growth in Asia, although there is a need to further improve the standardisation of data, a Deutsche Bank CIO report has suggested.

The report cited an Oxford University study, which found a statistically significant relationship between a firm's performance in environmental, social and corporate governance (ESG) and a country's living standards, as measured by gross domestic product (GDP) per capita.

For example, if Indonesian firms were to improve their environmental performance to reach the level of the highest performers in the dataset, this would be associated with an increase in GDP per capita by 15 per cent, from roughly US\$4,300 to US\$4,900.

"The study suggests that if a portion of the pandemic recovery efforts were directed at enhancing companies' ESG practices and especially social performance this could also stimulate economic growth, all things remaining equal," the report said.

Deutsche noted that some economies in the region already accept this. For example, Singapore recently launched a Green Plan 2030, where sustainable living, energy reset and the green economy are seen as integral pillars to its economic growth and climate and resource resilience.

At the same time, the shift to sustainable investments is boosted by four other factors, said the report. Social and economic interest in ESG has encouraged investors and asset managers to incorporate ESG into investment decisions.

Digitalisation and data analytics could also help solve existing problems around ESG assessments, identify sustainable enterprises and correlate ESG with financial performance.

Despite the tremendous opportunities in Asia, there are a number of challenges, the report said. One is the highly diverse nature of the region with varying income levels and types of governments.

"Standardising ESG standards with a coordinated methodology and taxonomy may thus prove to be more difficult than in Europe or the US," the report said.

But the use of artificial intelligence and digitalisation could help with deficiencies in the quality of existing ESG data, said the report.

Asia is also implementing ESG investment at a time when most economies in the region are still growing rapidly and have a significant focus on heavy industry. However, Asia is leveraging on its research and development capabilities to deal with rising sea levels, securing its fresh water supply and raise its fish production.

Another opportunity comes from the high-tech base of many Asian economies, which can drive sustainability in the energy and infrastructure sectors. ■

Source: Business Times Singapore

FACEBOOK, PUSHING THE LIMITS IN AI

Facebook has managed to go beyond the learning done by humans through tags in its newly developed artificial intelligence algorithm. The social media giant is trying to give the artificial intelligence algorithm the ability to learn by itself. Accordingly, more than a billion posts from Instagram were used for the Seer (Self-supERvised) algorithm. The artificial intelligence technology used decided which of these images were similar to each other.

The most interesting feature of the artificial intelligence algorithm is that it can solve the existence of another algorithm. Seer was shown a small number of pictures this time using cat tags. The algorithm noticed the bad tagging and was able to complete that there was another algorithm behind it. Scientists from important universities in the USA also witnessed this artificial intelligence experiment conducted by Facebook. Scientist Yann LeCun, who serves as the Head of Facebooks Science Department, described the ability to learn oneself with this artificial intelligence technology as a revolution. LeCun explained that the selected 1 billion Instagram posts were randomly selected, and even simple visuals were not used to facilitate the work of artificial intelligence. ■

SOURCE: NAMIBIAN SUN



The paper titled 'Inclusion of Persons with Disabilities through Information and Communication Technology (ICT)' with knowledge support from social enterprise DEOC outlines the role of technologies like artificial intelligence in creating societies and economies that allow full and equal participation of all citizens. Especially in a post-pandemic world, technology has served as a great enabler and equaliser for persons with disabilities, creating greater possibility of an inclusive workforce.

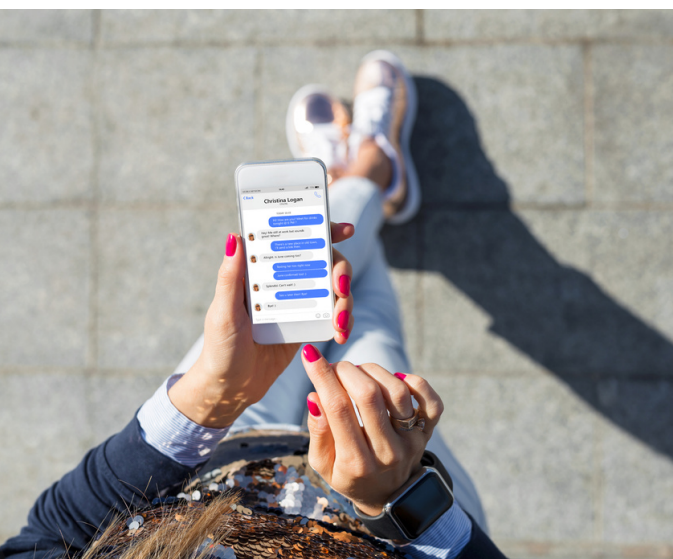
Some of the key recommendations of the whitepaper include standards for public procurement for persons with disabilities, setting up an accessibility commission board, accessibility of product and services, online education and digital literacy. It underscores the need for representation of PwDs in the workforce and consolidated efforts towards data collection for PwDs.

In its recommendations, the paper also outlines the need for creating an ecosystem for assistive technology, a universal design institute and the formation of a sub-group on accessibility of ICT by the FICCI Task Force on Diversity and Inclusion. Keshav Dhakad, Group Head and General Counsel, Microsoft India, said accessibility is not just a responsibility but also an opportunity.

"When a culture of disability inclusion that powers accessibility is coupled with technology, it leads to breakthrough innovations. Investing in AI and other emerging technologies can improve the way persons with disabilities interact with and leverage technology in their daily lives -- how they access education, new skills or employment opportunities," he said. ■

MICROSOFT, FICCI LAUNCH WHITEPAPER ON INCLUSION OF PERSONS WITH DISABILITIES

SOURCE: WEB INDIA 123



HEALTH & AI: HOW AI IS IMPROVING CANCER DIAGNOSTICS



Recently, the Japanese intelligent imaging and medical technologies major Fujifilm and Dr Kutty's Healthcare joined hands to set up 'NURA'—their first health-screening centre in the country, in Bengaluru. "With this examination centre, we aim to create awareness and an environment of opting for regular medical screening and taking preemptive healthcare measures," says Kasim.

Equipped with the best of Artificial Intelligence (AI) enabled imaging and expert healthcare, NURA centre can correctly test 10 common cancers, including oral cancer, breast cancer, cervical cancer, lung cancer, stomach cancer, colon cancer, prostate cancer, esophageal cancer, laryngeal cancer and early signs of leukemia along with other lifestyle diseases.

"We aim to bring Japan's health screening culture to India," says Masaharu Morita, global marketing/new business manager, Modality Solution, Medical Division, Fujifilm. "We use AI for three important things: high quality, low invasive and speed. The AI technology is developed in Japan and it can detect the abnormality automatically and alert the doctors and radiologists. We are using ultra low radiation CT which is 1/50 of normal CT and it's the same radiation dose as chest X-ray.■

SOURCE: FINANCIAL EXPRESS

ALTANA AI ANNOUNCES UNPRECEDENTED SUPPLY CHAIN MAPPING CAPABILITY TO MEET BIDEN EXECUTIVE ORDER

The Altana Atlas platform can now automatically map an organization's multi-tier supply chain networks across first, second, third, and n-tier suppliers, locate them on a map, and track the flows of goods between them through multiple stages of transformation. This capability is powered by the world's most comprehensive supply chain knowledge graph of data. On top of this graph, the Altana Atlas employs artificial intelligence to identify production outages, single points of failure, supply shortages, demand spikes, concentrations of risk exposure, labor rights concerns, and security vulnerabilities.

Government agencies and large multinational enterprises alike are using the Altana Atlas to see across borders and reveal supply chain risks and vulnerabilities. "The Covid supply chain shocks and the increased national security focus over supply chain vulnerabilities are forcing global enterprises to see beyond their direct supplier relationships. Supply chain resiliency is now a C-Suite concern," said Jack Sullivan, the Chief Security and Resiliency Officer of Boston Scientific. "After surveying the market for solutions, the Altana Atlas was the only solution for generating risk and resiliency intelligence across our extended supply chain."■

SOURCE: PR NEWswire





AI CAP'N: OCEAN VOYAGE TO LEAVE HUMANS AT HOME

Source: AniNews.in

If the seas are calm on the morning of April 19, a boat will leave Plymouth and quietly make history.

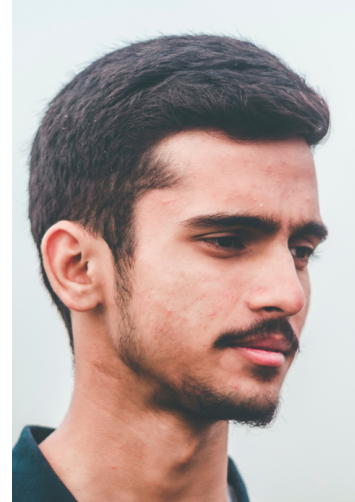
The vessel will be the first full-sized craft to cross the Atlantic autonomously, relying on artificial intelligence, robotics and clever computer work to cross 3,000 miles of ocean — without a sailor on board. Any of the problems the vessel might face, from large fish and other boats to waves and debris, will have to be handled by the artificial “brain” built for the job over the past four years.

On both sides of the Atlantic, engineers, scientists, oceanographers and AI specialists will be getting updates throughout the day as the craft sails at a speed of about ten knots, or 11.5mph. The five-ton, 15ft vessel is called the Mayflower Autonomous Ship (MAS) and is to follow roughly the same route as the Pilgrims of the 17th century, eventually landing at Plymouth, Massachusetts.

IBM, the giant computing group, came on board to offer its services. The team has built the AI Captain, an onboard computer that works remotely, without human intervention. The model was trained on more than a million nautical images to detect hazards. IBM created an inbuilt rule management system to follow international regulations to avoid collision.

“The ship can understand how it’s moving, what’s around it . . . how its rudder is functioning, how its instruments are working and how much energy it has,” Phaneuf said. “It builds up a scene of what’s around it and then it makes decisions without us about how it should act to remain safe.”

While the original Mayflower took ten weeks to make landfall, MAS is expected to take up to three weeks, driven by a “solar-powered, hybrid-electric propulsion system”, with a back-up diesel generator on board. ■



AI GENERATES IMAGES OF ATTRACTIVE FACES FROM BRAIN RESPONSES

A team of researchers from the University of Helsinki (Finland) and the University of Copenhagen (Denmark) has developed an artificial intelligence program capable of understanding the traits that make a face attractive to an individual and producing images that are desirable to them from that information.

During the study, scientists used electroencephalography measurements in 30 volunteers to measure their immediate response to a series of images, identifying both facial features and the type of faces that are considered attractive by them. The individual results of each participant were then entered into a machine learning system, which they have called the generative neural network (GAN).

Once the neural network managed to become familiar with the type of faces and attributes that individuals found desirable, it was able to generate completely new images designed specifically to be attractive to volunteers based on their brain responses, scientists detail in the preprinted version of their research, recently published in IEEE Transactions on Affective Computing.

In a second stage of the research, academics presented each of the study subjects with a series of faces created by the artificial intelligence program based on their individual preferences. In a doubly blind procedure, scientists found that the images matched participants' preferences with an accuracy of more than 80%, RT says. ■

Source: CE NoticiasFinancieras



AI:10 | Sector Focus

Tech Education on the Job and at School Needs a Makeover to Keep up With the Future of Work

Employers, individuals and universities need to work together to modernize all forms of tech training from degrees to certifications to just-in-time programs are relevant and worthwhile, according to a new report. "The Future of Work, Insights for 2021 and Beyond" from Infosys and the Milken Institute finds that most educational efforts are not relevant to current and future needs.

Although artificial intelligence, blockchain, cloud computing, and 5G are already disrupting many if not all industries, the good news is that researchers expect these jobs to increase job opportunities overall. In the survey, Infosys and the Milken Institute looked at what employees want from training programs as well as what employers need to stay competitive. The survey was conducted in fall 2020 and included 608 managers and 401 employees in the United States from companies with at least \$1 billion in revenue.

The report authors found that the tech industry needs more flexible training options as well as a better set of metrics to evaluate which programs are worthwhile and which ones are a waste of time. Here's a recap of what the report found.

The impact of COVID-19

The pandemic made inequality even worse than it was before, according to the report, with people in low-wage jobs getting hit harder while people working in the digital economy are in higher demand than ever, according to the report.

During the pandemic and the shift to remote work, employers found they had a bigger hiring pool and workers had more job opportunities, according to the survey.

Just over 30% of respondents relocated since the pandemic started with most people moving to be closer to family or to find a location with a lower cost of living. The survey found that similar numbers of managers and employees wanted to work from home, although people without children and women wanted to work from home more than other employee groups.

Matching skills and digital transformation demands

The survey found that learning and working are becoming more deeply connected due to the need to keep up with new technologies and that higher education institutions will need to find new partners to plug the skills gap. The survey found that each of these training methods was almost equally important:

- On-the-job training: 27%
- Licenses and certifications: 26%
- Online courses: 24%
- University degree: 23%

The survey also measured attitudes toward training and analyzed the results based on annual income. A majority of people in all four income brackets agreed with the idea that employees should look for their own opportunities for training and not rely on employers. At least 67% of respondents in all groups said they would attend mandatory training if it would improve job skills, but at the same time more than half of all respondents in each group said most training has been a waste of time.



Training for the jobs of the future

The study authors identified four factors to consider when thinking about jobs that will be in most demand in the future:

- Course corrections in digitalization: Companies must update job forecasts and upskilling plans continuously to respond to market developments.
- The productivity paradox: Tech adoption does not have the effect across the entire economy.
- The multifaceted nature of future resilience: Industries that avoided layoffs during the pandemic have no future guarantees just as recent job cuts don't indicate a long-term decline.
- The modularization of jobs and companies into skills and tasks: The individual tasks in a single job may be divided among machines, algorithms, onsite, remote and freelance workers to take advantage of the strengths of each.

These factors should guide planning for upskilling programs as well as regular reviews to keep these programs relevant.

Training programs have to be agile, too

The authors note that employers need a more standardized approach to evaluating training problems, such as online courses and boot camps to account for wide variations in "quality, cost, exam rigor and admissions criteria." Stakeholders need to understand which courses are better and worth supporting without being slowed down by "middlemen, third parties and vested interests."

Employers and educational institutions should "recalibrate traditional workforce development models that recognize the long-term return on investment in talent, skills, and people." This will require collaboration among workers, employers and educators, according to the report. The authors recommend taking these steps to upskill workers, promote equity and make sure training programs are relevant:

Accelerate regional growth through public investments that broaden access to local sectors with high potential. Finance access to education and skills training, including for underprivileged populations. Strengthen business-education partnerships, including just-in-time learning, agile curricula and flexible time commitment. Regular and outcomes-based evaluation of initiatives, to continually identify areas for improvement. ■

Source: TechRepublic





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Developing an AI derived Sustainable Business Model to enhance value creation for Malaysian firms



Professor Susela Devi K Suppiah



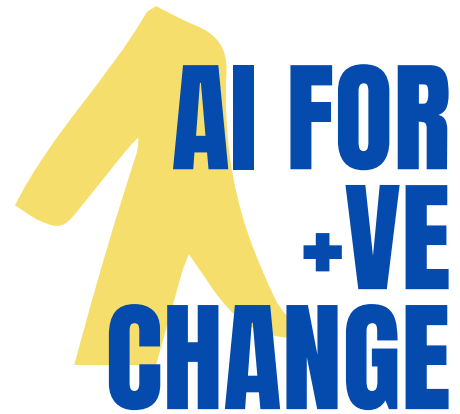
Sunway University Business School



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LEGEND: Research Title Researcher Faculty University



RoboAdvisor to identify gaps in a business model with sustainability parameters and recommend roadmaps to develop a sustainable strategy.

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Testing on the Difference of Student's Performance using Robust Methods on Courses with Skewed Result Distribution



Dr. Suhaida binti Abdullah



School of Quantitative Sciences



Universiti Utara Malaysia (UUM)

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- 12 AI's Role in Governance, Risk & Compliance (GRC)
- 13 Diversity & Board Performance
- 14 The Future of Education
- 15 The Future of Cooperatives

THREE WAYS YOU CAN BUILD & OWN AI WITHOUT CODING

➔ You have an idea



Yes - this idea must originate from a pressing need, pain point or an opportunity that is associated with your current operations and/or industry dynamics.

There must be a ready demand for that idea to be transformed into a system - otherwise it has to be incubated or "cook" to be ready for the market.

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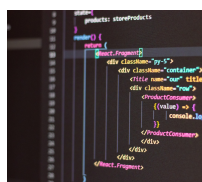
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5. Case Studies
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8. Pitch Deck

➔ We both



jointly own the IP in accordance to a pre-agreed ratio where MyFinB funds the full capex while you cover the costs of the prototype

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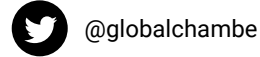
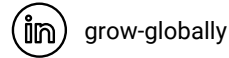
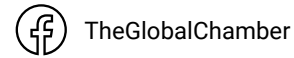
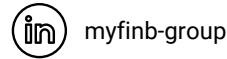
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CONTACT US



MALAYSIA

MyFinB (M) Sdn. Bhd.

Level 13A, Menara
Tokio Marine 189 Jalan
Tun Razak, Hampshire
Park, 50450 Kuala
Lumpur, Malaysia.

Tel: +60 327 173 418



SINGAPORE

**MyFinB Holdings
Pte. Ltd.**

One Marina
Boulevard, Level 20,
Singapore 018989

Tel: +65 6932 2658



UNITED STATES

**Global Chamber,
LLC.**

4400 N Scottsdale
Road, Suite 9-852,
Scottsdale, AZ 85251
USA

Tel: +1 (855) 476-9845