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Young Women in AI & Technology

AI:10

HEADLINE NEWS IN A FLASH

- How Is Artificial Intelligence Shaping The Audits Of Financial Statements?
- An 'A' for AI in education
- Artificial intelligence could help work out the best diet for every individual
- Engineers help artificial intelligence to learn more safely in the real world
- Efficient AI means businesses can achieve more with less
- Model shows how intelligent-like behavior can emerge from non-living agents

INDUSTRY FOCUS

CAN ANTI-PLAGIARISM TOOLS DETECT WHEN AI CHATBOTS WRITE STUDENT ESSAYS?

CAN ANTI-PLAGIARISM TOOLS DETECT WHEN AI CHATBOTS WRITE STUDENT ESSAYS?



Source: edsurge

After its launch last month, ChatGPT, the latest chatbot released by OpenAI, made the rounds online. Alex, a sophomore at a university in Pittsburgh, started toying with the chatbot about a week after it was released, after finding out about it on Twitter. Within a couple of days, he got really excited by the quality of the writing it produced. The chatbot was good, he says—really good. (“Alex” is the name that this person provided to EdSurge. He’d found the chatbot around finals week, with everyone in a mad rush to finish papers. Most people seemed interested in asking the chatbot for jokes or stories, Alex says, but he was “instantly intrigued with the idea of using it to write a paper.”

After trying it out on some essay prompts he’d been assigned, though, he noticed some problems. The writing could be awkward. It would repeat phrases, or include inaccurate quotes. Those little things added up, making the writing seem like it didn’t come from a human. But Alex started tailoring the text, experimenting with breaking up and varying the kind of prompts he fed the chatbot. It seemed to take out some of the thankless legwork (or, some professors might argue, the work) from essay writing, only requiring a little pre-work and a touch of editing: “You can at least write papers 30 percent quicker,” he says.

Eventually, he says that the papers he and the bot were creating together passed plagiarism checkers with ease. He wasn’t the only one he knew using the AI. But others were less careful about the process, he noted. They put a lot of faith in algorithmic writing, turning in essays without really going over them first. A finance major, Alex also smelled opportunity. His pockets weren’t exactly flush. So, early on, before it had caught on, Alex sold a handful of papers—he estimates about five—for “a couple of hundred bucks.” Not a bad rate for a couple hours of work.

Cat and Mouse Game

The last few weeks have seen a rush of articles in the popular press detailing how students are using ChatGPT to write their papers. The Atlantic magazine put the question starkly: “[The College Essay is Dead.](#)”

And the tool doesn’t just present a challenge to those teaching English classes. The AI chatbot can seemingly spit out answers to some questions of finance and math as well. But like the internet—which provided the data the chatbot was trained on—ChatGPT’s output can be dicey. That means that essay answers it produces for students often include statements that aren’t factually accurate, and sometimes it just makes stuff up. It also writes racially-insensitive and misogynistic things.

But Alex’s story shows that a little human input can correct such issues, which raises the question many professors are wondering: Can plagiarism-detection tools catch these AI creations?

It turns out that the makers of TurnItIn, one of the most widely used plagiarism detection tools, aren’t breaking a sweat. “We’re very confident that—for the current generation of AI writing generation systems—detection is possible,” says Eric Wang, vice president of AI for the company. Plagiarism is evolving, but it can still, in theory, be sussing out, he argues. That’s because unlike human writing, which tends to be idiosyncratic, machine writing is designed to use high-probability words, Wang says. It just lacks that human touch.

Put simply, essays written by chatbots are incredibly predictable. The words the machine writes are words that you expect, where you’d expect them. And this leaves, Wang says, a “statistical artifact” that you can test for. And the company says it’ll be able to help educators catch some of the cheats using algorithmic tools like ChatGPT sometime next year.

AI NEWS ROUNDUP: NVIDIA'S AI PREDICTIONS FOR 2023

Source: Albusiness.

This week's roundup covers Nvidia's AI predictions for 2023 amid corporate belt-tightening, Sony's new metaverse wearables, and other news.

Nvidia's AI predictions for 2023 amid a slowing economy

Cost-effective AI development will be the theme for 2023 as businesses scale their AI projects amid belt-tightening by using cloud-based integrated software and hardware that can be bought and customized for any budget, according to Nvidia AI experts.

Here are some of their predictions:

1. Generalist AI agents: AI agents including chatbots will become smarter, able to solve open-ended tasks with natural language instructions and large-scale reinforcement learning while harnessing large AI models trained on a vast quantity of unlabeled data at scale.

2. Generative AI transforms enterprise applications: Generative AI becomes reality in 2023 because foundations are in place with software that can "transform large language models and recommender systems into production applications that go beyond images to intelligently answer questions, create content and even spark discoveries."

3. Training autonomous vehicles in the metaverse: Self-driving capability represents one of the "most complex AI challenges of our time. It's simply not possible to encounter every scenario" on the road so the automotive industry will do their training in the virtual world.

4. AI becomes cost-effective with energy-efficient computing: "Inefficient, x86-based legacy computing architectures that can't support parallel processing will give way to accelerated computing solutions that deliver the computational performance, scale and efficiency needed."

5. Metaverse universal translator: The 2D web uses HTML as its standard language and the 3D web will have Universal Scene Description, slated to be "the most powerful, extensible, open language" that enables companies and consumers to "move between different 3D worlds using various tools, viewers and browsers in the most seamless and consistent fashion."

Samsung offers free AI courses to women

Samsung Electronics is launching a free AI course at its Innovation Campus in the U.S. geared towards teaching young women about the science. It is the program's second year in the country.

Participants aged 17 to 35 will be taught basic software skills and given knowledge of emerging tech capabilities. The courses will be taught virtually from January through May 2023.

Topics include unsupervised learning, natural language processing and deep learning to "provide a solid artificial intelligence foundation."

The 150 students will come from a diversity of backgrounds, ranging from mothers going back to work to graduate school students and employees looking to upskill.



HEADLINE NEWS IN A FLASH

HOW IS ARTIFICIAL INTELLIGENCE SHAPING THE AUDITS OF FINANCIAL STATEMENTS?

A study recently published in the Review of Accounting Studies demonstrates that the use of artificial intelligence is significantly improving the quality and efficiency of financial statement audits, as well as displacing audit professionals. Audits follow a set of auditing standards and are very reliant on the highly-skilled tasks of prediction and anomaly detection. Such settings are where machine learning or artificial intelligence (AI) should flourish. In a study titled "Is Artificial Intelligence Improving the Audit Process?" researchers analyzed more than 310,000 employee resumes to measure AI investments for the 36 largest U.S. audit firms. The period examined by the study was from 2010 to 2019. "Our main result is that when audit firms invest in AI, their audit quality goes up. There are fewer restatements, including material restatements, and fewer SEC investigations related to audits performed by AI-investing firms," says Anastassia Fedyk from the University of California at Berkeley

Source: Forbes

ARTIFICIAL INTELLIGENCE COULD HELP WORK OUT THE BEST DIET FOR EVERY INDIVIDUAL

Custom diets are the next frontier in nutrition science – and artificial intelligence (AI) will play a key role in figuring out what each of us should, and shouldn't, be eating.

An ambitious program called Nutrition for Precision Health (NPH) kicked off in the US in January 2022 when the National Institutes of Health (NIH) awarded \$170 million to fund institutions across the country to conduct a five-year study with 10,000 participants. CNN spoke to Holly Nicastro, program director in the NIH office of nutrition research and coordinator of NPH, about the aims and scale of the project and how AI can benefit our health by helping to devise optimal diets for every individual. There is a lot of conflicting information, and there is no one-size-fits-all diet to stay healthy. The goal of NPH is to use AI to develop algorithms that predict individual responses to food and dietary patterns.

Source: CNN

EFFICIENT AI MEANS BUSINESSES CAN ACHIEVE MORE WITH LESS

AI development is going through a period of exponential growth. Just following the complete set of submissions on 'artificial intelligence' at arXiv is an impossible task, with typically 80 papers a day appearing across a range of AI subdisciplines. Inevitably the field is starting to fragment as researchers focus on their area of interest, with few able to take in developments across the whole of the AI space. Industry, meanwhile, seeks engineering solutions to specific real-world problems sooner rather than later. Expectant attendees at the show – including those from the city's vibrant start-up community – are as ever looking to come away with tools, insights, and ideas on how to apply emerging tech in transformative ways. The message is that business doesn't need to be locked out of development, because there are now more ways to put AI into practice.

Source: Albusiness

AN 'A' FOR AI IN EDUCATION

AI can be used to personalise learning experience with tailored content based on individual abilities. This can improve student engagement, leading to better academic outcomes. In addition, AI can automate administrative tasks, such as attendance tracking, freeing up teachers to focus on classroom interaction. Another sector that can benefit from AI is manufacturing. For example, AI algorithms can monitor equipment-use patterns and generate maintenance schedules. And by analysing historical inventory data, AI can predict future demand and market movements. These can help businesses to optimise their maintenance costs, and better plan their inventory levels. The agriculture sector can also benefit from AI.

Source: The Straits Times

ENGINEERS HELP ARTIFICIAL INTELLIGENCE TO LEARN MORE SAFELY IN THE REAL WORLD

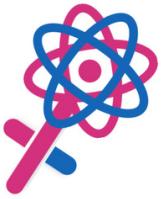
Penn State researchers are looking for a safer and more efficient way to use machine learning in the real world. Using a simulated high-rise office building, they developed and tested a new reinforcement learning algorithm aimed at improving energy consumption and occupant comfort in a real-world setting. Greg Pavlak, assistant professor of architectural engineering at Penn State, presented the results from the paper he co-authored, "Constrained Differentiable Cross-Entropy Method for Safe Model-Based Reinforcement Learning," at the Association for Computing Machinery International Conference on Systems for Energy-Efficient Built Environments (BuildSys) Conference. "Reinforcement learning agents explore their environments to learn optimal actions through trial and error," Pavlak said. "Reinforcement learning agents explore their environments to learn optimal actions through trial and error," Pavlak said. "Due to challenges in simulating the complexities of the real world, there is a growing trend to train reinforcement learning agents directly in the real world instead of in simulation." However, deploying reinforcement learning in real environments presents its own challenges, according to the researchers.

Source: techxplore

MODEL SHOWS HOW INTELLIGENT-LIKE BEHAVIOR CAN EMERGE FROM NON-LIVING AGENTS

A new model by a team of researchers led by Penn State and inspired by Crichton's novel describes how biological or technical systems form complex structures equipped with signal-processing capabilities that allow the systems to respond to stimulus and perform functional tasks without external guidance. "Basically, these little nanobots become self-organized and self-aware," said Igor Aronson, Huck Chair Professor of Biomedical Engineering, Chemistry, and Mathematics at Penn State, explaining the plot of Crichton's book. The novel inspired Aronson to study the emergence of collective motion among interacting, self-propelled agents. The research was recently published in Nature Communications. Aronson and a team of physicists from the LMU University, Munich, have developed a new model to describe how biological or synthetic systems form complex structures equipped with minimal signal-processing capabilities that allow the systems to respond to stimulus and perform functional tasks without external guidance.

Source: ScienceDaily



Y:WAIT

Young Women in AI and Technology

Who are we?

Y:WAIT is a student-led organisation built to support young women in STEM involved in the application of AI, Sciences and Technology in the work we do.

What can you expect?

- Global mentorship and advisory network
- Company visits catered to young students interested in pursuing careers in the technology industry
- Seminars and webinars with esteemed speakers from all over the globe
- Nationwide & Gglobal competitions/hackathons designed to encourage innovation in AI, especially for female youths

What is our purpose?

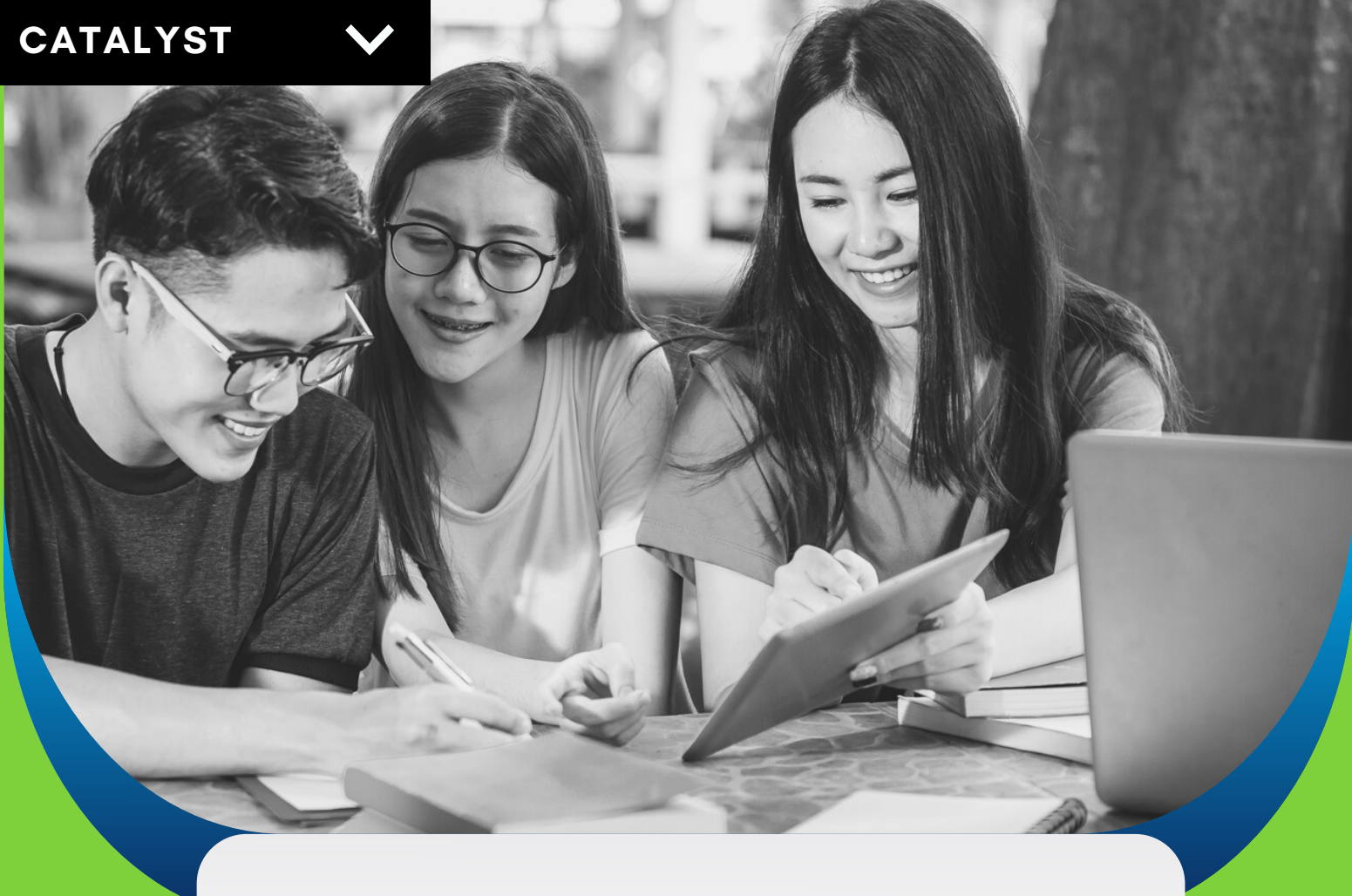
Raise awareness and promote interest about young women in STEM, create new and innovative ideas, build connections and partnerships within the industry and form new ventures that create impact; a movement that encourages the question: why wait?

<https://ceaiglobal.com/ywait/>



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Review
Podcast



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Report



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on-One
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MYFINB

MyFinB is an award-winning tech company that specializes in artificial intelligence. The company developed its own natural language platform with predictive and prescriptive narrative capabilities – a niche area that differentiates itself from any others. MyFinB helps people understand and communicate what is most important in their data. By transforming data into insightful, human-like language, the company's natural language technology enables people to be data-driven and make better decisions, focus talent on higher-value opportunities, and create differentiated products.

Website: www.myfinb.com Email: enquiry@myfinb.com



AIV50

AIV50 is a tech venture company with a portfolio of 50 AI assets in 10 key verticals. The special purpose company forms part of a joint incubation and venture building project by MyFinB Group (MFB) and VSC Portfolio Investments (VSCPI).

Website: www.aiv50.com Email: ventures@aiv50.com



TAFGAI

THE ACCOUNTING AND FINANCE GROUP IN AI (TAFGAI)

TAFGAI is set up to help accounting firms and infuse their operations with our proprietary AI expert systems. The immediate goal is to transform their businesses, making them leaner, more tech-proficient and value adding to their clients using AI in 10 key areas. This will have the effect of positive revaluation of the firms, with healthy topline and bottomline along with a decent multiplier.

Website: www.tafgai.com



SOCIAL FINANCE USING APPLIED ANALYTICS (SOFINAA)

Sofinaa addresses the primary issue faced by social welfare agencies, public agencies and organisations that channel funds to help those facing socioeconomic challenges. Sofinaa provides analytical insights using AI to evaluate cases and measure how the funds have been effectively utilised – including the impact these have contributed to the beneficiaries' well-being. Sofinaa enhances transparency, accountability and generate insights relating to social return on investments.

Website: www.myfinb.com/sofinaa



GLOBAL CHAMBER

Global Chamber's vision is a world where doing cross metro and cross border business is as easy as selling across the street. It also provides members with virtual connections, training, and information just right to grow... helping members connect with customers, partners and experts to grow across metros and borders. When members engage with Global Chamber, risk is reduced, and growth accelerates.

Website: www.globalchamber.org



KNOWLEDGE CHAMBER OF COMMERCE AND INDUSTRY

KCCI is a non-government, not-for-profit organization registered under the Central Government's Ministry of Corporate Affairs playing a proactive role in India's development process and become a knowledge voice of India's business and industry.

Website: www.knowledgechamber.org
Email: info@knowledgechamber.org



SURYADATTA EDUCATION FOUNDATION

The Suryadatta Education Foundation, SEF, is a charitable trust registered with the Registrar of Societies, Government of Maharashtra. The Suryadatta Group of Institutes was established in the year 1999, with the blessing of Late Smt Ratanbai & Shri Bansilalji Chordia in Pune – The Oxford of East.

Website: www.suryadatta.org Email: info@suryadatta.edu.in



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Website: www.yudiz.com



FEDERATION OF INDIAN CHAMBERS OF COMMERCE & INDUSTRY (FICCI)

Established in 1927, FICCI is the largest and oldest apex business organisation in India. Its history is closely interwoven with India's struggle for independence, its industrialization, and its emergence as one of the most rapidly growing global economies. A non-government, not-for-profit organisation, FICCI is the voice of India's business and industry.

Website: www.ficci.in



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- A National Resource Institute in Entrepreneurship Education, Research, Training & Institution Building. Promoted by IDBI Bank Ltd; IFCI Ltd, ICICI Ltd, SBI and Govt. of Gujarat.
- Pioneered the Entrepreneurship Development Programme (EDP) Model.
- Ranked as Number 1 by Atal Ranking of Institutions on Innovation Achievements (ARIIA) – 2021 in General (Non-Technical) Category. The only institute from Gujarat to be ranked as Number 1 across all seven categories.

Website: www.ediindia.org



WOMEN ENTREPRENEURSHIP CELL

Women Entrepreneurship Cell under Kadi Sarva Vishwavidyalaya (KSV), managed by Sarva Vidyalaya Kelavani Mandal, Kadi and Gandhinagar, Gujarat, India, established in 2016, to ignite the spirit of Entrepreneurship amongst our students. In the current era, countries should create more support systems for encouraging entrepreneurship among students. At the same time, it is to foster gender equality to break away from stereotyped mindsets.

Website: www.wecksv.org



KADI SARVA VISHWAVIDYALAYA

Kadi Sarva Vishwavidyalaya is a University established vide Gujarat State Government Act 21 of 2007 in May 2007 and approved by UGC (ref F. 9-18/2008(cpp-1) March 19,2009). The University has been established by Sarva Vidyalaya Kelavani Mandal to achieve the following objectives: To provide need-based education and develop courses of contemporary relevance. To be a University of excellence by providing research-based activities which would foster higher economic growth. To provide education to all irrespective of caste, creed, religion etc. The University has at present 19 Constituent Colleges/Departments at Gandhinagar and Kadi.

Website: www.ksv.ac.in



BE PHENOMENAL

Dr. Rachana specialized in Cosmetic Dentistry from State University of New York. After rendering her services to the medical field and its beneficiaries for a decade, she decided to contribute to her family business when she did her MBA from Nirma University with Gold Medal. Furthering the growth of human centric business approach, she successfully completed her course in Executive Education in Design Thinking from Stanford University.

Website: bephenomenal.co.in

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MyFinB is an award-winning tech company that specializes in artificial intelligence. The company developed its own natural language platform with predictive and prescriptive narrative capabilities - a niche area that differentiates itself from any others.

MyFinB helps people understand and communicate what is most important in their data. By transforming data into insightful, human-like language, the company's natural language technology enables people to be data-driven and make better decisions, focus talent on higher-value opportunities, and create differentiated products.



The Centre for AI Innovation (CEAI) forms part of MyFinB Venture's portfolio of innovative, disruptive projects to guide and support the digital transformation initiatives by organisations and business innovators.



'The AI World Summit: Where Innovators & Disruptors Meet to Challenge Limits' brings together the global AI community from a range of businesses, science and tech to go beyond the buzz and hype, discuss the most burning AI issues, share their developments, successes, challenges, and the resultant impact on their businesses.

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