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AI:10

WHAT'S HOT

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STARTUP DISCOVERS
ARTIFICIAL NEURONS
ONLY BEEN SEEN IN
HUMAN BRAIN

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R&D AND
COMMERCIALISATION

Will AI Replace Lawyers & Other Myths : Legal AI Mythbusters

ISSUE 10th | March 2021

Elon Musk-founded Startup Discovers Artificial Neurons Only Been Seen In Human Brain

SOURCE: REPUBLIC WORLD

Artificial Intelligence researchers at Open AI, a startup founded by Elon Musk, have discovered neurons within an AI system that have only previously been seen in the human brains.

According to a blog post, researchers uncovered what is referred to by neuroscientists as a 'multimodal neuron', within the murky inner workings of one of its most advanced neural networks. The researchers said that the discovery was made using a general-purpose vision called CLIP, which trains itself on complex datasets to recognise objects and people within abstracts, such as cartoons or statues.

In a tweet, Open AI said, "This discovery is an important step toward understanding the associations and biases that large language models learn during training, so we and other AI practitioners can ultimately make them safer".

The company said that they have discovered neurons in CLIP that respond to the same concept whether presented literally, symbolically, or conceptually. The researchers explained that the discovery of multimodal neurons in CLIP gives them a clue as to what may be a "common mechanism of both synthetic and natural vision of systems: abstraction". In the blog post, the company informed that multimodal neurons were first discovered in the human brain in 2005 when scientists realised that a single neuron could identify a common theme through clusters of abstract concepts delivered through sensory information.

The researchers said that rather than millions of neurons working together to identify a picture of a celebrity, just one neuron is responsible for recognising them. They further added that this means that the human brain has an individual neuron devoted to every family member, friend, celebrity that a person knows, with that neuron responding to photographs, drawings and images of their name but not other names. Further, Open AI researchers found that similar to their biological counterparts, artificial neurons also "respond to emotions, animals and famous people". ∎

University of Queensland student Nat Marshall is developing a wearable device that will control robotic prosthetics with artificial intelligence (AI). The engineering and physics major wants to smooth out the current user experience for people with upper-limb difference. AI refers to a computer that can imitate a human mind by learning from experience and practice to recognise objects, solve problems or make decisions. Using people with fully functional upper limbs, Mr Marshall's device will be trained to understand how muscles and tendons inform hand movements.

The device will then be transferred to a person with an upper-limb deficit and, using its AI, best guess the movements they are trying to perform. "The end goal is essentially a robotic limb that's indistinguishable from a regular arm," Mr Marshall said.

He has taken current industry standards to the next level by incorporating more electrodes into his device, meaning it can learn more movements and give wearers the ability to use fine motor skills. Current technology features between eight and 16 electrodes, whereas Mr Marshall's design has 256.

"With more electrodes, you can imagine [an object] as an image, and you have more pixels in that image," he said. Mr Marshall been working with teenager Connor Wyvill, who was born without most of his left arm. ∎

UNIVERSITY OF QUEENSLAND STUDENT DEVELOPING AI-ASSISTED ROBOTIC PROSTHETIC

Source: Australian Broadcasting Corporation News

SAVING LIVES FROM A DISTANCE THROUGH AI

Four years ago, when she was leading technological projects at the Medical Research Institute of the Hospital del Mar in Barcelona, Núria Pastor (Barcelona, 27 years old) devised a system to remotely monitor the health of sick people. She has now put her idea into practice and is the co-founder and CEO of HumanITcare, a remote monitoring platform that allows the doctor to follow different biomarkers and vital patient signs, including heart rate, blood pressure, weight, oxygen saturation, sleep quality, temperature and glucose levels. The artificial intelligence-based system is already used in leading hospitals in several countries.

The algorithm learns from health data and sends alerts if it detects any abnormalities, but it is the doctor who always makes the decision, does not make it a software. "It is used, for example, to track people who have had a heart attack or have a chronic illness," explains Pastor, who holds a degree in Psychology with a Master's Degree in Neuroscience Research and Studies from Harvard Medical School. The platform is already used in centers such as the Vall d'Hebron, in the Clínic and in the Hospital del Mar (all in Barcelona); at the Academical Hospital of Maastrich (Netherlands), At Heildelberg University Hospital (Germany), at the hospital in Braga (Portugal) and in the health services of Galicia and the Canary Islands, as well as in large pharmaceutical companies in the field of clinical research and patient monitoring in clinical trials. ∎

SOURCE: CE NOTICIASFINANCIERAS

ARTIFICIAL INTELLIGENCE HAS BECOME THE MOST POPULAR NEW MAJOR AT CHINESE UNIVERSITIES

SOURCE: CHINADAILY

Artificial intelligence has become the most popular new major at Chinese universities for the second year in a row amid the country's drive to build a strong AI talent pool. The subject's popularity is far above that of any other new major. A list issued by the Ministry of Education on Monday said universities across the country applied to establish 2,046 new majors last year, with 130 universities receiving approval to establish four-year undergraduate AI-related majors. In 2019, 180 universities set up AI majors, making it the No 1 new major in that year, too.

Many prestigious universities—including Tsinghua University in Beijing, Sun Yat-Sen University in Guangzhou, Guangdong province, and Central South University in Changsha, Hunan province—are offering the new major. According to a plan issued by the ministry to promote AI education, universities will improve the AI discipline, make breakthroughs in basic theory and key technology research and become core forces for major global AI innovation by 2030. ∎

SONANTIC BRINGS ARTIFICIAL INTELLIGENCE TO NEW PATH FOR VOICE-OVERS

In the Zagar & Evans pop song classic In the Year 2525, the duo sang of a year where "some machine is doing that for you."

Voice-over actors, welcome to the future. A company called Sonantic has created what it claims is the first artificial intelligence voice models that sound genuinely human and capable of expressing "a wide range of complex human emotions, from fear and sadness to joy and surprise."

Gaming producers like Obsidian Entertainment, Splash Damage and 4A Games are already on board with the technology, which is in use from development through post-production. The concept is similar to CGI for audio. Human, realistic voice tech is in its infancy, but along with this brave new frontier is a new opportunity for voiceover artists – banking their words for future use.∎

SOURCE: DEADLINE

On Day 2 of Future of Work 2021, Chaitanya Peddi, Co-founder of Darwinbox, discussed how HR tech has adapted itself to the norms of the new normal.

"With offices re-opening, it clearly looks like we're going to see a hybrid work culture," says Chaitanya Peddi, Co-founder and Product Head at Darwinbox — one of the leading providers of cloud-based Human Resources Management Software (HRMS). He shared the three fundamental types of jobs in every company in terms of productivity along with the remote working scheme. These include:

"The creative jobs, who can be productive at home; other jobs, who are at least saving on commute by working from home; and the third kind, who were adversely impacted since their work demanded them to go to their office spaces," Chaitanya said.

Many organisations are taking a call on creating a hybrid workplace based on the nature of the jobs. There has been a major shift in thinking and more flexibility with organisations, he said. In fact, smartphones and telecom players have solved multiple challenges along the way, he said, adding that HR tech on smartphones can also increase efficiency, where a lot of processes can be automated and data can be made transparent.

"We're focussed on solving issues for the millennials and Gen Z. Everyone wants a great user experience. Gone are the days when you can give something unintuitive, clunky, and expect people to adopt it without saying anything," says Chaitanya.∎

FUTURE OF WORK: 'AI WILL NOT REPLACE HR,' SAYS DARWINBOX'S CHAITANYA PEDDI, ON THE ROLE OF HR TECH IN THE NEW NORMAL

SOURCE: YOUR STORY

THIS AI-POWERED APP WILL TELL YOU IF YOU'RE BEAUTIFUL — AND REINFORCE BIASES, TOO

Biased algorithms influence what faces we're shown on social media, and entrench our opinions about what is attractive.

Beauty is in the AI of the beholder. Want to shatter your self-esteem in under five seconds?

There's an app for that! A startup called Qoves has developed an AI-powered beauty assessment tool that tells you how attractive you are. The free version spits out a list of your "predicted flaws" and explains what sort of surgical interventions and expensive serums are needed to "fix" you. If you want to pay for more of this nonsense you can get an Aesthetics Report – billed as the "perfect collection of scientific sources to become better educated on facial harmony" – that lists things like your "Cephalometric Averageness". No doubt each report comes with a free pair of skull calipers!

There are an alarming number of these sort of beauty assessment algorithms online.

Face++, a facial recognition platform developed by China's Megvii Technology, for example, has a tool that gives you a " Beauty Score ". It also purports to tell you how attractive you are from both a male and female perspective.

How does a beauty scoring algorithm work? Good question; nobody really knows. Face++ won't reveal the workings of its algorithm. Qoves's tool, meanwhile, is trained on a dataset of hundreds of thousands of pictures scored manually by humans and extrapolates attractiveness from that. ∎

Source: The Guardian

USING AI TO TURN YOUR TEAMS INTO SUPERTEAMS

Thomas Malone, author of Superminds, posited the idea of superteams, which pair people and technology, using their complementary capabilities to re-architect work in more human ways and contribute to new and better outcomes at speeds and scales not otherwise possible.

Transforming teams into superteams by using insights from AI is still an emerging strategy, in part because many organizations continue to view technology narrowly as a tool or enabler instead of as a team member and collaborator. The pandemic, which accelerated the wide adoption of creative remote-work practices, also inspired the human-AI collaboration that supports a greater level of teaming across organization and ecosystem boundaries.

One coalition of pharmaceutical giants (AstraZeneca, GlaxoSmithKline) and universities (Oxford, Cambridge) used collaboration technologies for real-time partnerships and data sharing that increased their speed to the level they needed to achieve the remarkably rapid development and testing of a coronavirus vaccine.

As organizations shift to a "thrive mindset" by embracing disruption as a catalyst for growth, increasing their reliance on superteams may help them drive growth, navigate uncertainty, and unlock the potential of their workforce. AI as a "team member" is also enhancing people's natural powers of judgment and their ability to create knowledge. Some companies in the insurance sector have expanded the application of AI to include predictive modeling, turning human underwriters into "exponential underwriters" who can better analyze risk even without specialized data-science expertise. ∎

Source: Harvard Business Review

Will AI Replace Lawyers & Other Myths : Legal AI Mythbusters

AI:10 | Sector Focus

AI is a hot buzzword right now, but with buzz always comes a whole host of misconceptions about a technology's capabilities. There's considerable confusion about what artificial intelligence can do and widespread misinformation about how it works, particularly in the area of managing legal contracts and if AI will replace lawyers. Onit recently hosted a webinar to debunk these common myths.

Nick Whitehouse, General Manager of Onit's AI Center of Excellence, and Jean Yang, Vice President of Onit's AI Center of Excellence, dispelled common misconceptions about everything from will AI replace lawyers to who can benefit from AI. The goal is to help legal professionals decipher marketing-speak to determine what's genuinely AI and what's just software.

Here's an overview of some of the common legal AI myths Nick and Jean debunked.

Myth 1: Will AI replace lawyers? No.

Lawyers being replaced by AI is the classic fear and, fortunately, it's unfounded. Rather than replacing lawyers, AI will automate certain aspects of lawyers' jobs, typically the most routine ones. As a result, lawyers will have more time to focus on other tasks and accomplishments. This means that lawyers' jobs will continue to evolve and change as more AI capabilities are introduced, but those jobs will never be eliminated.

That's not to say that lawyers should ignore legal AI. Yes, AI won't replace them. However, lawyers using legal AI will replace those that don't, thanks to increased productivity and efficiency provided by the transformative technology.

Myth 2: Is AI hard to implement? No.

LAI learns, but to accomplish that it needs training. Typically, that is a monumental task that requires large pools of data, time and specialized technical skills. The industry has matured now. Much of that work is done in advance by the vendor, meaning the technology is largely ready to implement and use right out of the box. For example, this AI for contract review comes loaded with a library of legal knowledge and can be up and running in a matter of days.

Will AI Replace Lawyers & Other Myths: Legal AI Mythbusters

Myth 3: AI and machine learning can be used interchangeably. No.

Many people use the terms AI and machine learning interchangeably, but that's not entirely accurate. AI is a technology that enables computers to learn and mimic human intelligence and it covers a wide range of techniques. Among those techniques are machine learning, natural language processing and more. The terms are used interchangeably, even though that's incorrect, because machine learning is one of the AI techniques that we encounter most often in our day-to-day lives. Machine learning is integral to AI tools that make automated legal contract review possible.

Myth 4: AI is only for large legal departments. Not True.

While there may have been some barriers to entry in the early days of AI, we're now at a point where AI solutions can be affordable for everyone – especially if your AI provider offers solutions capable of scaling to meet your needs for the size of your organization. The right AI solution will work just as well for the smallest legal department as it will for the largest global corporation.

Myth 5: AI will require too much training. No, AI will create less work, not more.

Many people worry that implementing AI will create more work for their department because they'll frequently have to fix the technology or invest too much time learning how to use it.

Thankfully, we haven't seen those fears play out.

Studies show that, on average, users are 51% more productive when they use AI for contract review. The more experienced they become with AI, the more their productivity improves. Additionally, as AI has become more mainstream, AI solutions require far less training, need far fewer corrections, and are much easier to use without extensive training.

But Wait – There are More Legal AI Myths to Expose

These are just some of the AI misunderstandings we dispel in the webinar. Our panel also talks about crucial issues like data security, retaining control over reviews and negotiations, why pre-built AI solutions are less effective, and why every team can benefit from AI.∎

Source: JDSUPRA

E-Legis Prototype - A Game-Changer in the Legislative Settings: Aligning Malaysian Education Towards Industrial Revolution (IR) 4.0.

Assoc Prof Dr Manvender Kaur

School of Languages, Civilisation & Philosophy

Universiti Utara Malaysia (UUM)

LEGEND: Research Title | Researcher | Faculty | University

TRACK 4: R&D AND COMMERCIALISATION

RoboAdvisor to analyse the learning styles of legal students and develop their own personalised learning roadmaps to optimise learning outcomes.

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New Metaheuristic Algorithm for Job Shop Scheduling Problem

Dr. Mustafa Alobaedy

School of Information and Communication Technology

Help University (HELP)

LEGEND: Research Title | Researcher | Faculty | University

TRACK 4: R&D AND COMMERCIALISATION

RoboAdvisor to review, plan and optimise the workflow processses in an organisation, develop multi work scenarios and measure the impact in terms of productivity levels.

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9	AI & Governments
10	Supply Chain & AI
11	SDG Measurement Using AI
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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→ We both ….

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MyFinB uses its proprietary NLGU and Cognitive Analytics capabilities to serve 10 core segments: Financial institutions, Enterprises / SMEs, Accounting and Auditing Firms / Consultants, Government Agencies, Credit bureaus, Stock Exchanges, Insurers, Trade Associations and Business chambers, Universities and Investment Promotion Agencies.
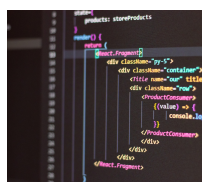
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MyFinB's DIAL Programme offers a unique AI-as-a-Service (AIaaS) platform to overcome the barriers of adopting AI Systems. DIAL targets people without the knowledge of coding and programming to build their own expert systems for their organisations.

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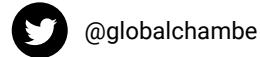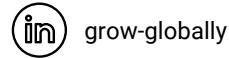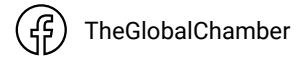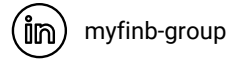
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