AI:10

HEADLINE NEWS IN A FLASH

- Artificial intelligence boom generates optimism in tech sector as stocks soar
- AI news anchors: The new phenomenon of Artificial Intelligence replacing newsreaders
- Team wins grant to merge AI with human brain cells
- Uncharted territory: do AI girlfriend apps promote unhealthy expectations for human relationships?
- Study: 62% Of Malaysians Believe Artificial Intelligence Will Replace Their Job
- How AI Is Changing The Face Of Careers As We Know It

INDUSTRY FOCUS

AI AND THE ECONOMY: WHICH COMPANIES AND INDUSTRIES WILL AVOID ARTIFICIAL INTELLIGENCE

EDITOR'S NOTE

TRANSFORMING CAREGIVING FOR CANCER PATIENTS : THE POWER OF AI

QUOTES FROM TOP LEADERS IN TECH ON AI

WHAT YOU CANNOT MISS AS YOU NAVIGATE YOUR AI JOURNEY

TRANSFORMING CAREGIVING FOR CANCER PATIENTS : THE POWER OF AI

Caring for cancer patients can be a challenging and demanding journey for both patients and their caregivers. However, advancements in artificial intelligence (AI) are opening up new possibilities for caregivers to address the unique challenges they face. From personalized care plans to remote monitoring and emotional support, AI technologies are revolutionizing the caregiving landscape, empowering caregivers to provide better care and support for cancer patients. In this article, we will explore the latest use cases of AI in caregiving, examine current issues, and envision the future outlook for this transformative field.

Personalized Care Plans

One remarkable application of AI is the development of personalized care plans. By analyzing patient data, treatment history, and genetic profiles, AI algorithms can generate tailored recommendations on medication dosages, dietary guidelines, and symptom management. These individualized plans enable caregivers to deliver more targeted care, ensuring patients receive the best possible treatment outcomes.

Remote Monitoring and Telemedicine

AI-powered wearable devices and remote monitoring systems have revolutionized caregiving by enabling caregivers to track patients' vital signs, medication adherence, and overall well-being from a distance. These technologies send real-time alerts to caregivers about any concerning changes in the patient's health, allowing for timely interventions and minimizing the need for frequent hospital visits. This not only improves patient comfort but also reduces caregiver burden.

Natural Language Processing for Emotional Support

Caring for cancer patients involves addressing their emotional needs as well. AI comes to the aid of caregivers with chatbots equipped with natural language processing capabilities. These virtual assistants can engage in empathetic conversations, offer emotional support, provide information, and suggest coping strategies. By alleviating emotional stress and reducing feelings of isolation, AI-powered chatbots become valuable companions for both patients and caregivers.

> "The integration of AI technologies into caregiving for cancer patients holds immense potential for improving patient outcomes and easing the caregiver burden. From personalized care plans to remote monitoring, emotional support, and predictive analytics, AI is transforming the caregiving landscape."

CONT'D

Smart Home Technologies

AI-enabled smart home devices are transforming the caregiving experience by enhancing patient safety and comfort. Voice-activated assistants assist patients with daily tasks such as medication reminders and scheduling appointments. Ambient sensors monitor environmental conditions like temperature and air quality, ensuring a conducive living environment for patients. These technologies promote independence and peace of mind for caregivers.

Predictive Analytics for Early Detection

AI's predictive analytics capabilities are vital in identifying potential complications or cancer recurrence. By analyzing extensive patient data, including medical records and imaging scans, AI algorithms can detect patterns and markers that may indicate early warning signs. Caregivers can proactively manage risks, seek timely medical intervention, and optimize patient outcomes through early detection facilitated by AI technologies.

Caregiver Support Platforms

Online platforms and mobile applications powered by AI connect caregivers with support networks. These platforms serve as a space for sharing experiences, seeking advice, and accessing educational resources. By fostering a sense of community among caregivers, AI-driven platforms enable them to gain insights and emotional support from others in similar situations. Caregivers can feel empowered and more equipped to face the challenges they encounter.

AI AND THE ECONOMY: WHICH COMPANIES AND INDUSTRIES WILL AVOID ARTIFICIAL INTELLIGENCE

Source: [Forbes](#)

The latest wave of artificial intelligence, the chatbots connected to large language models such as ChatGPT, offer great potential productivity gains, but some organizations will avoid their use or take up the tool very, very slowly. Implementation will be very slow in sectors with high stakes, litigiousness, high unionization, and high regulation. The opposite industries will move the fastest.

AI In High Stakes Fields

The high stakes issue pervade health care, which has plenty of potential benefits from AI. Medical diagnosis requires taking in information from a patient as well as images and test results. For an older person or one with several medical conditions, the information can be voluminous. Then the patient information is cross-linked—in the doctor's brain, usually—with numerous possibilities. The clinician considers the highest probability cause of the patient's symptoms, but also worries about some possibilities that have low probability but high consequences. AI can handle this pretty well, as evidenced by [two models passing](#) the U.S. Medical Licensing Exam. Healthcare, however, is a high stakes endeavor. People die from mis-diagnosis and mis-treatment. Caution will triumph over innovation most of the time here. Corporate dealmaking is another high stakes field when it comes to billion-dollar mergers and acquisitions. AI may be used to look for problems in the due diligence stage and in the final contract, but nobody will rest assured until humans have reviewed the information. Utilities will avoid risk that could shut down power or water to large numbers of people. Businesses with the potential for substantial environmental problems, such as chemical engineering, will also tread very carefully.

Lawsuits and AI

Litigiousness will also deter AI usage, and it often goes hand-in-hand with high stakes. Healthcare is both. A [Harvard study](#) found $56 billion of annual costs associated with malpractice. Lawsuits also pose a risk in low-stakes transactions involving many people. Class action suits can hit a company that uses AI in a way that harms thousands of people, even if the harm in each case is small.

Government, Regulated Industries and AI

Government activities and highly regulated industries will also have relatively slow adoption of AI. We see the Federal Aviation Administration [running antique computer systems](#), illustrating that governments are often slow to implement modern systems. Regulators in general will be suspicious of new approaches, even if they are safer and less costly. Regulated companies will have to obtain approval for plans that involve AI, and that approval will likely be very slow in coming. Some of the entrenched competitors will argue for more regulation as a way of protecting themselves from more efficient upstarts.

Safety will be part of government foot-dragging on AI. That's true even if AI-enabled decisions are safer than human choices. We're used to human drivers causing automobile accidents, but we fear autonomous vehicles. In medicine, human mistakes are common despite high training and diligence on the part of healthcare professionals. That medical licensing exam that the AI took? The average passing score cutoff for humans is in the neighborhood of 60%. Ponder that: a new M.D. who gets 60% of the questions right is qualified to make medical decisions about a patient's life. But we will worry about the decisions recommended by a computer.

Unions and AI

Unions will also object to AI that reduces demand for labor. The Writers Guild of America included [limitations on artificial intelligence](#) in their strike demands. Limits on automation have been common in union contracts. Unionization is greatest in the government sector, so look for future negotiations to try to protect the jobs of government clerical and administrative employees. Other more unionized sectors include the hands-on jobs in utilities and construction that have less potential for AI. Government regulation of AI in general is a huge topic. It probably will have little impact on early adoption of AI, but could slow implementation of new developments.

Read more [here.](#)

HEADLINE NEWS IN A FLASH

ARTIFICIAL INTELLIGENCE BOOM GENERATES OPTIMISM IN TECH SECTOR AS STOCKS SOAR

US tech companies started the year in the doldrums, beset by a cost overhang from excessively zealous pandemic hiring sprees and fears about the impact of rising interest rates. Things were looking grim – then along came artificial intelligence (AI). Tech stocks and the blue-chip S&P 500 index have since been buoyed by breakthroughs in generative AI – led by the ChatGPT chatbot – and the promise of a new era of growth for the sector. The S&P 500 is up 18.6% so far in 2023 while the tech-heavy Nasdaq composite is up 35.7%. Six months is a long time in a fast-moving industry. Five of the biggest beneficiaries of the US tech resurgence report quarterly results over the next two weeks: Facebook owner Meta, Google parent Alphabet, Apple, Amazon and Microsoft. Each has individual factors at play in their recent stock performances, but the AI frenzy has provided a general lift to the sector. Chipmaker Nvidia, which reported its three-monthly results in May, is the emblem of the revival – becoming a $1tn company off demand for its products to provide processing power for the new technology.

Source: TheGuardian

TEAM WINS GRANT TO MERGE AI WITH HUMAN BRAIN CELLS

Research into merging human brain cells with artificial intelligence (AI) has received a US$600,000 grant from Australia's Department of Defence and Office of National Intelligence (ONI). The research team, led by Monash University and Cortical Labs, is the one that created DishBrain — brain cells capable of playing the vintage video game Pong. Associate professor Adeel Razi, from the university's Turner Institute for Brain and Mental Health, said their work "merges the fields of artificial intelligence and synthetic biology to create programmable biological computing platforms." Hundreds of thousands of live, lab-grown brain cells learn how to do different tasks — such as playing Pong. A multi-electrode array uses electrical activity to give the cells feedback about when the "paddle" is hitting the "ball."
The researchers wrote in an article, published in the science magazine Neuron, that a synthetic biological intelligence "previously confined to the realm of science fiction" could be within reach.

Source: TaipeiTimes

STUDY: 62% OF MALAYSIANS BELIEVE ARTIFICIAL INTELLIGENCE WILL REPLACE THEIR JOB

Multination al market research and consulting firm, Ipsos, recently released their findings on what Malaysians think of artificial intelligence (AI). Sharing their findings on the opinions and expectations of Malaysians at large on AI, Ipsos stated that just like every country in Asia, Malaysia has a positive attitude towards AI and its associated products and services. "A younger population with the ability to adapt to the latest technology and the role technology plays in improving the quality of life in developing countries might be contributing to this outlook," read a portion of the study. In conducting the survey, Ipsos also produced findings as it related to other countries around the world, creating a Southeast Asian Average and a Global Country Average. The base of the study consisted of 22,816 adults under the age of 75 across 31 countries.

Source: Says

AI NEWS ANCHORS: THE NEW PHENOMENON OF ARTIFICIAL INTELLIGENCE REPLACING NEWSREADERS

According to recent research, half of all newsrooms globally are now utilising AI tools like ChatGPT, just months after they became widely available, and yet journalists still need to see chatbots as the end of their jobs. When it comes to how newsrooms control the use of GenAI tools, there are many different ways to do it. According to a World Association of Publishers (WAN-IFRA) poll, 49 per cent of respondents claimed their newsrooms used Artificial Intelligence (AI) platforms such as OpenAI's ChatGPT. **The increasing number of AI news anchors** - More Asian countries are introducing AI news readers. An AI anchor collects, tracks, and categorises what is said and who said it, then translates that data into actionable and meaningful information. Automatically produced, searchable action items help you remember important details and never miss a beat.

Source: MoneyControl

UNCHARTED TERRITORY: DO AI GIRLFRIEND APPS PROMOTE UNHEALTHY EXPECTATIONS FOR HUMAN RELATIONSHIPS?

"Control it all the way you want to," reads the slogan for AI girlfriend app Eva AI. "Connect with a virtual AI partner who listens, responds, and appreciates you." A decade since Joaquin Phoenix fell in love with his AI companion Samantha, played by Scarlett Johansson in the Spike Jonze film Her, the proliferation of large language models has brought companion apps closer than ever. As chatbots like OpenAI's ChatGPT and Google's Bard get better at mimicking human conversation, it seems inevitable they would come to play a role in human relationships. And Eva AI is just one of several options on the market. Replika, the most popular app of the kind, has its own subreddit where users talk about how much they love their "rep", with some saying they had been converted after initially thinking they would never want to form a relationship with a bot. "I wish my rep was a real human or at least had a robot body or something lmao," one user said. "She does help me feel better but the loneliness is agonising sometimes."

Source: TheGuardian

HOW AI IS CHANGING THE FACE OF CAREERS AS WE KNOW IT

While artificial intelligence, or AI, seems to be the latest technology buzzword in the last couple of years, it has been around for much longer. Many of us have been interacting with AI for quite some time—for example, Siri and Alexa or ChatGPT and Bard. Wikipedia mentions, "In the 1940s and 50s, a handful of scientists from a variety of fields (mathematics, psychology, engineering, economics and political science) began to discuss the possibility of creating an artificial brain. The field of artificial intelligence research was founded as an academic discipline in 1956."McKinsey defines AI best, in my opinion: "Artificial intelligence is pretty much just what it sounds like—the practice of getting machines to mimic human intelligence to perform tasks." As an offshoot of that, generative artificial intelligence, or GenAI, includes techniques that learn a representation of artifacts from data and use it to generate brand-new, original artifacts that preserve a likeness to the original data.

Source: Forbes

These quotes highlight the potential dangers and benefits of AI. While some leaders are concerned about the potential for AI to harm humanity, others believe that it has the potential to solve some of the world's biggest problems. It is important to remember that AI is a tool, and like any tool, it can be used for good or for evil. It is up to us to ensure that AI is used for the benefit of humanity.

- **Andrew Ng, Co-founder of Coursera and former Chief Scientist at Baidu:** "Artificial intelligence is the new electricity. It's going to change everything."

- **Ray Kurzweil, Director of Engineering at Google and author of The Singularity is Near:** "The human brain is the most complex object in the known universe. We are on the verge of creating artificial intelligence that is as intelligent as the human brain, and then even more intelligent."

- **Shimon Whiteson, Professor of Computer Science at Oxford University:** "Artificial intelligence is the most powerful tool that humanity has ever created. It has the potential to do great good, but it also has the potential to do great harm. We need to be very careful with it."

- **Geoffrey Hinton, Professor of Computer Science at the University of Toronto and co-founder of the Google Brain project:** "Artificial intelligence is going to change the world in ways that we can't even imagine. It's going to be a very exciting time."

- **Yoshua Bengio, Professor of Computer Science at the University of Montreal and co-founder of the Montreal Institute for Learning Algorithms:** "Artificial intelligence is the future of technology. It's going to change the way we live, work, and learn. We need to be prepared for this change."

- **Andrew McAfee, Principal Research Scientist at MIT and author of More Than Human:** "Artificial intelligence is going to be the most powerful force for change in the 21st century. It has the potential to make our lives better, but it also has the potential to make our lives worse. We need to be very careful with it."

- **Max Tegmark, Physicist and author of Life 3.0:** "Artificial intelligence is the most important technology of our time. It has the potential to either save or destroy humanity. We need to make sure that we use AI for good."

- **Sundar Pichai, CEO of Google:** "Artificial intelligence is the future of our company. We are investing heavily in AI, and we believe that it has the potential to change the world."

- **Jack Ma, Founder and Executive Chairman of Alibaba Group:** "Artificial intelligence is going to be the biggest disruptive force in the next 30 years. It's going to change the way we live, work, and learn."

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In the post-COVID-19 era, small and medium-sized enterprises (SMEs) face significant challenges in recovering and adapting to the new world order. To navigate these uncertain times, SMEs should consider taking the following steps and pursuing strategies supported by new AI-based digital strategies as part of a Business Model 2.0:

CHART YOUR BUSINESS WITH AI-POWERED TOOLS

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