FEBRUARY 2023 | ISSUE # 104 BROUGHT TO YOU BY



INDUSTRY FOCUS 11 EXPERTS PREDICT WHAT'S THE MOST EXCITING ALTREAD IN 2023

HEADLINE NEWS IN A FLASH

- Al is dreaming up drugs that no one has ever seen. Now we've got to see if they work.
- ChatGPT hints at potential for artificial intelligence in government
- Corporations Can Use Artificial Intelligence To Make Positive Social Change
- Generative AI is building the foundation of proptech's next wave
- OpenAI releases tool to detect AI-generated text, including from ChatGPT
- New and surprising evidence that ChatGPT can perform several intricate tasks relevant to handling complex medical and clinical information



11 EXPERTS PREDICT WHAT'S THE MOST EXCITING AI TREND IN 2023

Source: Acuvate

Artificial Intelligence (AI) has been a transformative technology in recent years, changing the way we interact with the world around us. As we move towards 2023, experts are predicting exciting new trends in AI that will continue to revolutionize the way we live and work. In a survey conducted by a leading technology publication, 23 AI experts were asked to predict the most exciting AI trend for 2023. Their responses offer insights into the directions in which AI is heading and the ways in which it will transform our lives. From advanced machine learning to natural language processing, their predictions highlight the immense potential of AI and the many ways in which it will shape our future.

Here's what the experts believe about the future of AI.

1. Be prepared for the Generative AI battle

ChatGPT frenzy release did not go unnoticed! You can hardly ignore the fact that it has crossed one million users within a week of its launch and sparked a \$10 billion investment discussion with Microsoft. 2023 is going to be an exciting time, now that OpenAI made its move there is no doubt that the tech giants will enter a battle of the titans. The battle will not only focus on conversational AI but will spill into other areas such as search engines with Microsoft plans to combine ChatGPT with Bing. With commercialisation in mind, we will see business applications extending to sectors such as marketing, advertising, legal and customer services.

However, despite the latest successes, Generative AI models lack crucial capabilities such as understanding and reasoning. Addressing AI ethics and bias needs to remain a top priority.

- Dr Djamila Amimer, CEO and Founder, Mind Senses Global

2. The risks and benefits of generative AI will become better and more realistically understood

Generative AI exploded at the end of 2022. There is a mix of hype on both the positive and negative sides. Some people say that generative AI will revolutionize the world and some say it will destroy it. As always, there will

be good and bad, but likely not the extreme cases so often discussed thus far. In 2023, there will be time for a more sober and thoughtful examination of the upside and pitfalls of generative AI and we'll figure out how to move forward with it effectively.

- **Bill Franks,** Director, Center for Data Science & Analytics Kennesaw State University

3. Creative Generalists become armies of one...

Millions have experienced the incredible capabilities of tools like ChatGPT and Dall-E but we haven't seen anything yet. Similar tools are being developed for video, audio, 3D, and other technical fields. Creative Generalists – professionals who have deep expertise in one area and general knowledge in several others will become indispensable as they're able to create assets drawn from dozens of technical skills that would normally take teams of specialists to produce. This is the age of the technical solopreneur.

- Ian Beacraft, CEO and Chief Futurist, AI Correspondent

4. The most exciting AI trend for science and engineering is modeling physical phenomena using AI instead of traditional science and engineering approaches. The AIbased modeling of physics is purely based on actual measurements instead of mathematical equations and therefore it avoids assumptions, interpretations, and simplifications. My 30 years of research, development, and consulting for petroleum industry has resulted in technologies that model the physics of hydrocarbon reservoirs completely different from traditional reservoir simulation and modeling. This new technology called

02



Al-base (Top-Down) Reservoir Simulation and Modeling (TDM) performs comprehensive history matching and creates forecasting, infill location, and production optimization far better than traditional physics-based modeling.

- Shahab D. Mohaghegh, Founder & President, Intelligent Solutions, Inc. (ISI)

5. Next wave AI The consumer lead revolution. Introduction

Artificial Intelligence (AI) has the potential to change our lives for the better. We are moving from a period of industrialization to the era of data-driven services and automation, with AI being at the heart of this transformation. As our lives become increasingly digitized and connected, we need new ways of organizing and organizing information for large organizations as well as individuals. The consumer-led revolution is about integrating artificial intelligence into everyday life in ways that will help us make more informed decisions about our health, finances, and lifestyles – it's a powerful way to harness exponential technology! Like the PC it is the consumer that will be dragging the enterprise into the AI age.

Mass adoption of AI tools

You're likely already using AI tools in your daily life. Think about how many people have used Siri to schedule a doctor's appointment, or how many others have used Google Maps to get directions while driving. AI is infiltrating all aspects of our lives, and it has the potential to make our lives easier: not just at work but also at home. A recent study by Oracle revealed that 82% of consumers would prefer an AI-powered assistant over a human being when performing tasks like scheduling meetings, buying tickets online and traveling abroad. In fact, the same study found that 60% of respondents were willing to pay for such services—and that number only increases if those services were free! Now we are seeing the same consumers comfortable using business AI tools for Content, Presentations, decision-making. Consumers are bringing these tools into the workplace the same way they did with Laptops, Phones, and Tablets.

Consumer-led AI disruption in the enterprise

The next wave of disruption is here and it's going to change the way we work, interact with each other and do business. This new paradigm is powered by Al. The first wave of the internet was built on the back of consumer-led innovation. The second wave brought us social networking, which led to mobile computing that completely changed how we access information in our daily lives; this was followed by cloud computing, which transformed how data can be accessed and managed from anywhere at any time. Now we're entering a third wave powered by Al that will enable consumers across industries—from retailing to healthcare—to interact with their devices in new ways and get more out of their data assets than ever before. 6. Al is now mainstream and integrated in both our work and our lives. Al will keep on improving in the field of Perception, Representation & Reasoning, Learning, Human-Al Interaction, and Societal Impact. One technology which has reached maturity and is expected to have a significant impact in 2023 is Computer Vision. While Tesla may finally get its car fully autonomous the safety or our citizens in schools and public places will improve with automated recognition of unsafe situations.

- Philippe Herve, Owner CEO, PGNRG

7. The most interesting AI trend to be materializing in the industrial enterprise context will be what we here at Beyond Limits call Knowledge Base Operations (KBS) as applied to engineering applications. KBS will place the optimization of an industrial complex at the fingertips of its unit operators, guiding them and enhancing the Advanced Process Controls.

- Alexandra (Alex) Ayoroa, Al Direct Sales Executive, Beyond Limits

8. Consumer-led AI disruption in the enterprise

Do you recognize the statements below about the future? In 10 years...

- You will be driving a self-driving car.
- All TV broadcasting will be through the internet.
- Uber will take over taxi driver services.
- AI will take over the world

All these statements have been around for well over 10 years and are still to be fulfilled to their full extent. The application of new technological developments does not happen overnight. It is a slow and progressive process which only introduces parts of the whole slowly into the mainstream.

Recently, I rented a car that would almost unnoticeably help me to stay in the lane, would alert me if I would move lanes without signaling, would also accelerate, reduce the speed, and again accelerate automatically keeping a safe distance from the car in front, among other features. These features have been researched for decades and gradually become part of our daily lives, one by one, gradually, but surely.

It is not different with AI. Every year the areas covered by AI receive new approaches and tools that democratize it and make utilizing AI easier.

03

- Patrick Pando, Vice President of AI, Baker Hughes



Al might help you to automate processes on a large scale that would require a huge number of people. But to be introduced in a way to make a difference on large scale for most companies it needs to be easy to be implemented alongside most companies' processes of today and not their processes of tomorrow.

2023 might be the year in which AI will break through many companies' working cultures and start to be introduced in some of their daily routines. Not only automating existing processes but maybe initially, suggesting decisions or extracting valuable insights from the data that would previously require resources that would be difficult to justify.

Companies like Microsoft for example are making this possible through their AI services that become more and more in reach of any company and without the need to keep a team of data scientists.

Still, to implement them we will need a very close relationship with the business analysts that understand the company and can tell when an outcome is correct and valuable.

- Renato Lima, Microsoft Dynamics 365 Technical Consultant, Tesco

9. After plateauing for many years, AI has had a re-generation with the introduction of ChatGPT. What bores me, about AI, is the long list of ways that people are taking AI and getting it to do things that we can do already. I remember when the iPhone came out, I asked my partner if she was going to swap her Nokia for an iPhone and she said "all I do is make calls and send texts, what do I need an iPhone for?".

Of course, fast forward 16 years and she couldn't live without her iPhone, but she does so many new things that she can do with it, that have transformed our world. This is what excites me about AI, not replicating our web 2.0 world but providing us with new inventions, new capability and new experiences. So far, the results from ChatGPT have been average and I guess if you see average has a high-water mark then go with it. I think the modern buyer, your employees, your future employees, your investors and your future investors, who are all on social media, expect something more.

- Timothy (Tim) Hughes, CEO & Co-founder, DLA ignite

10. There are several AI trends that our business will leverage in order to automate sales and service processes. Firstly, we will implement chatbots and virtual assistants. These are AI-powered tools that can handle a wide range of tasks, such as answering frequently asked questions, providing product recommendations, and even processing orders. This will help us to improve customer engagement and automate customer service interactions.

Secondly, we will invest in predictive analytics (Einstein/SF) to identify potential sales opportunities and improve customer service by providing insights into customer behavior and preferences.

Finally, we will use Al-powered automation (NLP) to streamline and optimize sales and service processes. For example, using Al to automatically prioritize and route customer service requests will help us ensure that highpriority issues are addressed quickly, while automating sales lead scoring will help sales teams focus on the most promising leads.

- Nathan Bohneman, Senior Digital Product Manager, Ferguson Enterprises

11. Bring in the robots

There are so many AI trends happening now and all can be linked to an improvement of customer experience. One of the evolutions that I find fascinating is the rise of the robots in customer experience. One of the ways that CX increasing, friction decreasing and (long term) cost cutting can go hand in hand is by automating and using robots. But another huge trend for the coming years in robotics, AI and virtual humans is that they will simply become a necessity in many areas where companies can just no longer find enough employees.

I'm talking about bottleneck professions like call center employee, waiters, masons, cleaners, food deliverers, truck drivers and even cooks. Those who are still performing these jobs are increasingly under pressure: they sometimes need to perform the job of multiple people at the same time because their organization is simply so hugely understaffed. A great example of how robots could help solve this problem are the Coco bots that pick-up food at restaurants and deliver it to the customer in 15 minutes or less. The Italian deli and bakery Bay Cities in Los Angeles, for instance, gets 50-60 orders per hour at peak, which Coco allows it to handle without disruption to their kitchen flow and shelf wait time. That's more (cost) efficient for the restaurant and a better CX for the customer.

A few years ago, most people asked me "Steven, what will we do when AI takes our jobs?" Today the situation is totally different. Because of the shortage of staff, people ask me: "How fast can we have robots that will help us to do our work." It is very clear: AI won't steal our jobs, but people using AI will have a much higher productivity than people who are not using AI.

- Steven Van Belleghem, Customer Experience Enthusiast! Global keynote speaker – bestselling author – Entrepreneur nexxworks 04



HEADLINE NEWS IN A FLASH

AI IS DREAMING UP DRUGS THAT NO ONE HAS EVER SEEN. NOW WE'VE GOT TO SEE IF THEY WORK.

With nothing to lose, Paul's doctors enrolled him in a trial set up by the Medical University of Vienna in Austria, where he lives. The university was testing a new matchmaking technology developed by a UK-based company called Exscientia that pairs individual patients with the precise drugs they need, taking into account the subtle biological differences between people. The researchers took a small sample of tissue from Paul (his real name is not known because his identity was obscured in the trial). They divided the sample, which included both normal cells and cancer cells, into more than a hundred pieces and exposed them to various cocktails of drugs. Then, using robotic automation and computer vision (machine-learning models trained to identify small changes in cells), they watched to see what would happen. In effect, the researchers were doing what the doctors had done: trying different drugs to see what worked. But instead of putting a patient through multiple months-long courses of chemotherapy, they were testing dozens of treatments all at the same time.

Source: <u>TechnologyReview</u>

CORPORATIONS CAN USE ARTIFICIAL INTELLIGENCE TO MAKE POSITIVE SOCIAL CHANGE

The notion of corporate social responsibility is not new. Enterprises benefit when they uplift the communities in which they operate, and there are valuable outcomes for brand reputation as well. There is also a growing appreciation that business sustainability grows out of attention to environmental, social and governance factors. These pro-social approaches to business and community can be aided by looking at how existing Al solutions could be adjusted and redeployed to address a global challenge, like food insecurity, economic inequality, education, access to opportunity and myriad other areas. There are emerging examples of how organizations are using Al to address ongoing issues. For example, the University of California Berkeley and MIT Press created a website that uses an Alenabled peer review model to expedite the review and publication of research on infectious diseases.

Source: Forbes

OPENAI RELEASES TOOL TO DETECT AI-GENERATED TEXT, INCLUDING FROM CHATGPT

After telegraphing the move in media appearances, OpenAI has launched a tool that attempts to distinguish between humanwritten and Al-generated text - like the text produced by the company's own ChatGPT and GPT-3 models. The classifier isn't particularly accurate — its success rate is around 26%, OpenAI notes — but OpenAl argues that it, when used in tandem with other methods, could be useful in helping prevent AI text generators from being abused. "The classifier aims to help mitigate false claims that Al-generated text was written by a human. However, it still has a number of limitations — so it should be used as a complement to other methods of determining the source of text instead of being the primary decision-making tool," an OpenAl spokesperson told TechCrunch via email. "We're making this initial classifier available to get feedback on whether tools like this are useful, and hope to share improved methods in the future."

CHATGPT HINTS AT POTENTIAL FOR ARTIFICIAL INTELLIGENCE IN GOVERNMENT

So how can agencies better leverage AI? Results of a recent SAIC survey uncover a need to improve overall AI readiness to enable the technology's integration and benefit from it. The independent survey of federal government executives revealed that while AI is on respondents' radar, fewer than one in five are "very" likely to adopt AI in the next year. Further, it indicates that AI readiness is a major barrier to implementation with one-third of respondents stating they do not believe their agency is ready for AI. To overcome this paradigm, agency leaders must clear up the common misconception that AI/ML infrastructure, data governance and efficiency must be perfectly aligned to get started with adoption. In reality, leaders can pilot AI confidently while developing equally important governance processes and risk frameworks in parallel. With more than 600 AI projects currently underway, the U.S. Department of Defense is a great example of an agency prioritizing progress over perfection.

Source: FederalTimes

GENERATIVE AI IS BUILDING THE FOUNDATION OF PROPTECH'S NEXT WAVE

Artificial intelligence, 2022 was a year of breakthroughs. Image generation models such as DALL-E, MidJourney and StableDiffusion came in early in the year, garnering much attention, and ChatGPT went viral near the end. Riding on the euphoria generated by these technological developments, about \$49 billion in venture capital was invested in AI in 2022 - 40%more than a year earlier, per CB Insights. Yet, there has been little conversation about how AI will play a growing role in real estate, a more than \$50 trillion asset class, and one of the key drivers of the global economy. We believe this represents a significant opportunity for real estate tech entrepreneurs. Al's emergence will cut through material use cases in real estate tech, from search and listings to mortgages, construction and sustainability. Notably, some of the most valuable companies in the early years of the real estate tech cycle have created significant value across the subsectors listed below. All of that will be in play with AI in the future. Source: TechCrunch

NEW AND SURPRISING EVIDENCE THAT CHATGPT CAN PERFORM SEVERAL INTRICATE TASKS RELEVANT TO HANDLING COMPLEX MEDICAL AND CLINICAL INFORMATION

In a recent study published in PLOS Digital Health, researchers evaluated the performance of an artificial intelligence (AI) model named ChatGPT to perform clinical reasoning on the United States Medical Licensing Exam (USMLE). There have been advancements in artificial intelligence (AI) and deep learning in the past decade. These technologies have become applicable across several industries, from manufacturing and finance to consumer goods. However, their applications in clinical care, especially healthcare information technology (IT) systems, remain limited. Accordingly, AI has found relatively few applications in widespread clinical care. In the last few weeks, ChatGPT, an OpenAI-developed general Large Language Model (LLM) (not domain specific), garnered attention due to its exceptional potential to perform a suite of natural language tasks.







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Website: www.ediindia.org

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Women Entrepreneurship Cell under Kadi Sarva Vishwavidyalaya (KSV), managed by Sarva Vidyalaya Kelavani Mandal, Kadi and Gandhinagar, Gujarat, India, established in 2016, to ignite t 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 gender equality to break away from stereotyped mindests.



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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.



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