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Young Women in AI & Technology

AI:10

HEADLINE NEWS IN A FLASH

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- Using AI to better target anesthesia and reduce medical risk
- Are You Ready To Lead An AI-Driven Economy?
- AI And Machine Learning In The Workplace: Preparing For 2023
- With AI And 5G, We're On The Cusp Of A New Era In Innovation

INDUSTRY FOCUS

AI PREDICTIONS FOR THE ENTERPRISE IN 2023

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Source: [VentureBeat](#)

It's that time of year again, when artificial intelligence (AI) leaders, consultants and vendors look at enterprise trends and make their predictions. After a whirlwind 2022, it's no easy task this time around. You may not agree with every one of these — but in honor of 2023, these are 23 top AI and ML predictions experts think will be spot-on for the coming year:

1. AI will be at the core of connected ecosystems

"In 2023, we're going to see more organizations start to move away from deploying siloed AI and ML applications that replicate human actions for highly specific purposes and begin building more connected ecosystems with AI at their core. This will enable organizations to take data from throughout the enterprise to strengthen machine learning models across applications, effectively creating learning systems that continually improve outcomes. For enterprises to be successful, they need to think about AI as a business multiplier, rather than simply an optimizer."

— **Vinod Bidarkoppa, CTO of Sam's Club and SVP of Walmart**

2. Generative AI will transform enterprise applications

"The hype about generative AI becomes reality in 2023. That's because the foundations for true generative AI are finally 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. This new creative era will fuel massive advances in personalized customer service, drive new business models and pave the way for breakthroughs in healthcare."

— **Manuvir Das, senior vice president, enterprise computing, Nvidia**

3. AI will completely transform security, risk and fraud

"We're seeing AI and powerful data capabilities redefine the security models and capabilities for companies. Security practitioners and the industry as a whole will have much better tools and much faster information at their disposal, and they should be able to isolate security risks with much greater precision."

They'll also be using more marketing-like techniques to understand anomalous behavior and bad actions. In due time, we may very well see parties using AI to infiltrate systems, attempt to take over software assets through ransomware and take advantage of the cryptocurrency markets."

— **Ashok Srivastava, senior vice president and chief data officer, Intuit**

4. Open source ML tools will gain greater market share

"Next year teams that focus on ML operations, management and governance will have to do more with less. Because of this, businesses will adopt more off-the-shelf solutions because they are less expensive to produce, require less research time and can be customized to fit most needs. MLOps teams will also need to consider open-source infrastructure instead of getting locked into long-term contracts with cloud providers. Open source delivers flexible customization, cost savings and efficiency. Especially with teams shrinking across tech, this is becoming a much more viable option."

— **Moses Guttman, CEO, ClearML**

5. Deep learning opportunities will boost demand for GPUs

"The biggest source of improvement in AI has been the deployment of deep learning — and especially transformer models — in training systems, which are meant to mimic the action of a brain's neurons and the tasks of humans. These breakthroughs require tremendous compute power to analyze vast structured and unstructured datasets. Unlike CPUs, graphics processing units (GPUs) can support the parallel processing that deep learning workloads require. That means in 2023, as more applications founded on deep learning technology emerge to do everything from translating menus to curing disease, demand for GPUs will continue to soar."

— **Nick Elprin, CEO, Domino Data Lab**

6. AI will create meaningful coaching experiences

"Modern AI technology is already being used to help managers, coaches and executives with real-time feedback to better interpret

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inflection, emotion and more, and provide recommendations on how to improve future interactions. The ability to interpret meaningful resonance as it happens is a level of coaching no human being can provide.”

— Zayd Enam, CEO, Cresta

7. Geopolitical shifts will slow AI adoption

“As fear and protectionism create barriers to data movement and processing locations, AI adoption will slow down. Macroeconomic instability, including rising energy costs and a looming recession, will hobble the advancement of AI initiatives as companies struggle just to keep the lights on.”

— **Rich Potter, CEO, Peak**

8. The role of AI and ML engineers will become mainstream

“Since model deployment, scaling AI across the enterprise, reducing time to insight and reducing time to value will become the key success criteria, AI/ML engineers will become critical in meeting these criteria. Today a lot of AI projects fail because they are not built to scale or [to] integrate with business workflows.”

— **Nicolas Sekkaki, GM of applications, Data and AI, Kyndryl**

9. Multi, hybrid-cloud MLOps and interoperability will be key

“As the AI/ML market continues to flood with new solutions, as evident by the volume of startups and VC capital deployed in the space, enterprises have found themselves with a collection of niche, disparate tools at their disposal. In 2023, enterprises will be more conscious of selecting solutions that will be more interoperable with the rest of their ecosystem, including their on-premises footprint and across cloud providers (AWS, Azure, GCP). Additionally, enterprises will gravitate towards a handful of leading solutions as the disparate tools mature and come together in bundles as standalone solutions.”

— **Anay Nawathe, principal consultant, ISG**

10. Advanced ML will enable no-code AI

“Advanced machine learning technologies will enable no-code developers to innovate and create applications never seen before. This evolution may pave the way for a new breed of development tools. In a likely scenario, application developers will ‘program the application’ by describing their intent, rather than describing the

data and the logic as they’d do with low-code tools of today.”

— **Esko Hannula, SVP of product management, Copado**

11. With spending down, AI will shift to practical applications

“This past year was filled with incredibly impressive technological advancements, popularized by ChatGPT, DALL-E 2, Galactica and Facebook’s Make-A-Video. These massive models were made possible largely due to the availability of endless volumes of training data, and huge compute and infrastructure resources. Heading into 2023, funding for true blue-sky research will slow down as organizations become more conservative in spending to brace for the looming recession and will shift from investing in fundamental research to more practical applications. With more companies becoming increasingly frugal to mitigate this imminent threat, we can anticipate increased use of pre-trained models and more focus on applying the advancements from previous years to more concrete applications.”

— **John Kane, head of signal processing and machine learning, Cogito**

12. ChatGPT will change the contact center, but not the way you think

“Chatbots are the obvious application for ChatGPT, but they are probably not going to be the first ones. First, ChatGPT today can answer questions, but it cannot take actions. When a user contacts a brand, they sometimes just want answers, but often they want something done — process a return, or cancel an account, or transfer funds. Secondly, when used to answer questions, ChatGPT can answer based on knowledge [found] on the internet. But it doesn’t have access to knowledge which is not online. Finally, ChatGPT excels at generation of text, creating new content derived from existing online information. When a user contacts a brand, they don’t want creative output — they want immediate actions. All of these issues will get addressed, but it does mean that the first use case is probably not chatbots.”

— **Jonathan Rosenberg, CTO, Five9**

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13. AI will drive the future of customer experience

“Digital engagement has become the default rather than the fallback, and every interaction counts. While the emergence of automation initially resolved basic FAQs, it’s now providing more advanced capabilities: personalizing interactions based on customer intent, empowering people to take action and self-serve, and making predictions on their next best action.

“The only way for businesses to scale a VIP digital experience for everyone is with an AI-driven automation solution. This will become a C-level priority for brands in 2023, as they determine how to evolve from a primarily live agent-based interaction model to one that can be primarily serviced through automated interactions. AI will be necessary to scale operations and properly understand and respond to what customers are saying, so brands can learn what their customers want and plan accordingly.”

— **Jessica Popp, CTO of Ada**

14. AI model marketplaces will emerge

“Coming soon are industry-specific AI model marketplaces that enable businesses to easily consume and integrate AI models in their business without having to create and manage the model lifecycle. Businesses will simply subscribe to an AI model store. Think of the Apple Music store or Spotify for AI models broken down by industry and data they process.”

— **Bryan Harris, executive vice president and chief technology officer, SAS**

15. Explainability will create more trustworthy AI

“As individuals continue to worry about how businesses and employers will use AI and machine learning technology, it will become more important than ever for companies to provide transparency into how their AI is applied to worker and finance data. Explainable AI will increasingly help to advance enterprise AI adoption by establishing greater trust. More providers will start to disclose how their machine learning models lead to their outputs (e.g. recommendations) and predictions, and we’ll see this expand even further to the individual user level with explainability built right into the application being used.”

— **Jim Stratton, CTO, Workday**

16. 2023 will be a major year for federated learning

“Federated learning is a machine learning technique that can be used to train machine learning models at the location of data sources, by only communicating the trained models from individual data sources to reach a consensus for a global model. Therefore instead of using the traditional approach of collecting data from multiple sources to a centralized location for model training, this technique learns a collaborative model. Federated learning addresses some of the major issues that prevail in the current machine learning technique, such as data privacy, data security, data access rights and access to data from heterogeneous sources.”

— **David Murray, chief business officer, Devron**

17. NLP plus object recognition will take search to the next level

“While most people write scrapers today to get data off of websites, natural language processing (NLP) progress has been made where soon you can describe in natural language what you want to extract from a given web page and the machine pulls it for you. For example, you could say, “Search this travel site for all the flights from San Francisco to Boston and put all of them in a spreadsheet, along with price, airline, time and day of travel.” It’s a hard problem, but we could actually solve it in the next year.”

— **Varun Ganapathi, CTO and co-founder, AKASA**

18. Advances are coming in real-time speech translation

“With remote work, boundaries are becoming increasingly blurred. Today it’s common for people to work and converse with colleagues across borders, even if they don’t share a common language. Manual translation can become a hindrance that slows down productivity and innovation. We now have the technology to use communication tools such as Zoom that allows someone in Turkey, for example, to speak their native language but allows someone in the U.S. to hear what they’re saying in English. This real-time speech translation ultimately helps with efficiency and productivity while also giving businesses more of an opportunity to operate globally.”

— **Manoj Chaudhary, CTO and SVP of engineering, Jitterbit**



HEADLINE NEWS IN A FLASH

LARGE LANGUAGE MODELS BROADEN AI'S REACH IN INDUSTRY AND ENTERPRISES

Until then, flashy text-to-image models had grabbed much of the media and industry attention. But the December public introduction of the new interactive conversational chatbot (also developed and trained by OpenAI) brought another type of Large Language Model (LLM) into the spotlight. LLMs are learning algorithms that can recognize, summarize, translate, predict and generate languages using very large text-based datasets, with little or no training supervision. They handle diverse tasks such as answering customer questions or recognizing and generating text, sounds, and images with high accuracy. Besides text-to-image, a growing range of other modalities includes text-to-text, text-to-3D, text-to-video, digital biology, and more. Over the last two years, LLM neural networks have been quietly expanding AI's impact in healthcare, gaming, finance, robotics, and other fields and functions, including enterprise development of software and machine learning.

Source: VentureBeat

USING AI TO BETTER TARGET ANESTHESIA AND REDUCE MEDICAL RISK

A Welsh company is launching its real-time AI-powered ultrasound in the U.S. that can more precisely pinpoint bodily areas targeted for local anesthesia to reduce medical risk. Intelligent Ultrasound plans to introduce its AI nerve block program ScanNav Anatomy PNB, which is already being used in the U.K. and expanding throughout Europe. A nerve block is an anesthetic injection near a nerve or bundle of nerves to reduce pain, such as an epidural given to women during childbirth. Doctors may use imaging devices to guide the needle. According to a study published in the British Journal of Anesthetics, the company's AI tool is more accurate in delivering peripheral nerve block (PNB) injections. In the past, the precise placement of these injections was a challenge; however, AI helps direct the placement for optimal injections.

Source: AlBusiness

AI AND MACHINE LEARNING IN THE WORKPLACE: PREPARING FOR 2023

The Equal Employment Opportunity Commission (EEOC) has been particularly active through its EEOC initiative on AI and algorithmic fairness and its joint HIRE initiative with the U.S. Department of Labor. In May 2022, the EEOC released technical guidance regarding potential Americans with Disabilities Act (ADA) implications. The guidance offers employers recommended guardrails when it comes to using AI technologies in their hiring and workforce management systems. The Federal Trade Commission (FTC) also has AI used for recruiting and hiring on its radar. In September 2022, speaking at the annual conference for a unit of my organization, BBB National Programs' National Advertising Division, FTC commissioner Alvaro Bedoya said: "Some say that our unfairness authority does not reach discrimination... Congress did not define Section 5 on the basis of subject matter."

Source: Forbes

HOW 1.6M PEOPLE WATCHED A CONCERT IN SKY: CHILDREN OF THE LIGHT | JENOVA CHEN INTERVIEW

Earlier this year, Thatgamecompany announced it had more than 160 million people who downloaded Sky: Children of the Light, since the mobile game launched in 2019. And now the company has figured out a way to keep those players coming back through a virtual concert with the artist Aurora. The title was an open world social indie adventure game, where players could have a cool experience in a beautiful world and share the emotional experience with friends. After more than a year of work, the company staged a virtual concert inside the game with the musical artist Aurora. She sang a series of beautiful songs and the game took the players on a kind of spiritual animated journey. More than 1.6 million people watched that concert, which is replaying every day for a month, said Jenova Chen, founder and CEO of Thatgamecompany, in an interview with GamesBeat.

Source: VentureBeat

ARE YOU READY TO LEAD AN AI-DRIVEN ECONOMY?

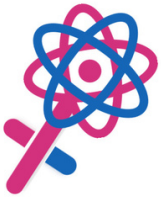
Readily available data is the lifeblood of organizations in every industry. Over the past decade, the amount of data available has grown exponentially. This data—structured and unstructured—can be used to gain insights into customer behavior, identify market trends, and improve operational efficiencies. As a result, leaders are starting to rethink how they store, manage and connect every dataset for analytics and automation to increase productivity, make faster decisions and gain new insights. Accepted as standard practice in years past, tiering data across multiple storage layers is no longer a practical option, reported Amazon Web Services last year. Instead, leaders increasingly need to be able to move data seamlessly between applications and workloads and do it all at scale.

Source: Forbes

WITH AI AND 5G, WE'RE ON THE CUSP OF A NEW ERA IN INNOVATION

5G and AI are two of the world's most disruptive technologies to look into in 2022. While each revolutionizes sectors and creates new experiences on its own, the combination of 5G and AI will be really disruptive. On-device computing, the edge cloud, and 5G work together to form a ubiquitous connectivity fabric of smart devices and services. This point of convergence is critical to our concept of the intelligent wireless edge. **The influence of 5G** - The commercial deployment of 5G has begun. But, to put it another way, 5G isn't just another G. It's a total ecosystem shift in how networks are managed and administered, as well as how apps function on them. AI is not just nice to have when it comes to 5G networks, but a need to deal with the technology's immense complexity. AI, along with the data and automation capabilities that come with it, helps sustain a varied ecology of growing networks in ways that humans alone can't.

Source: Marktechpros



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?

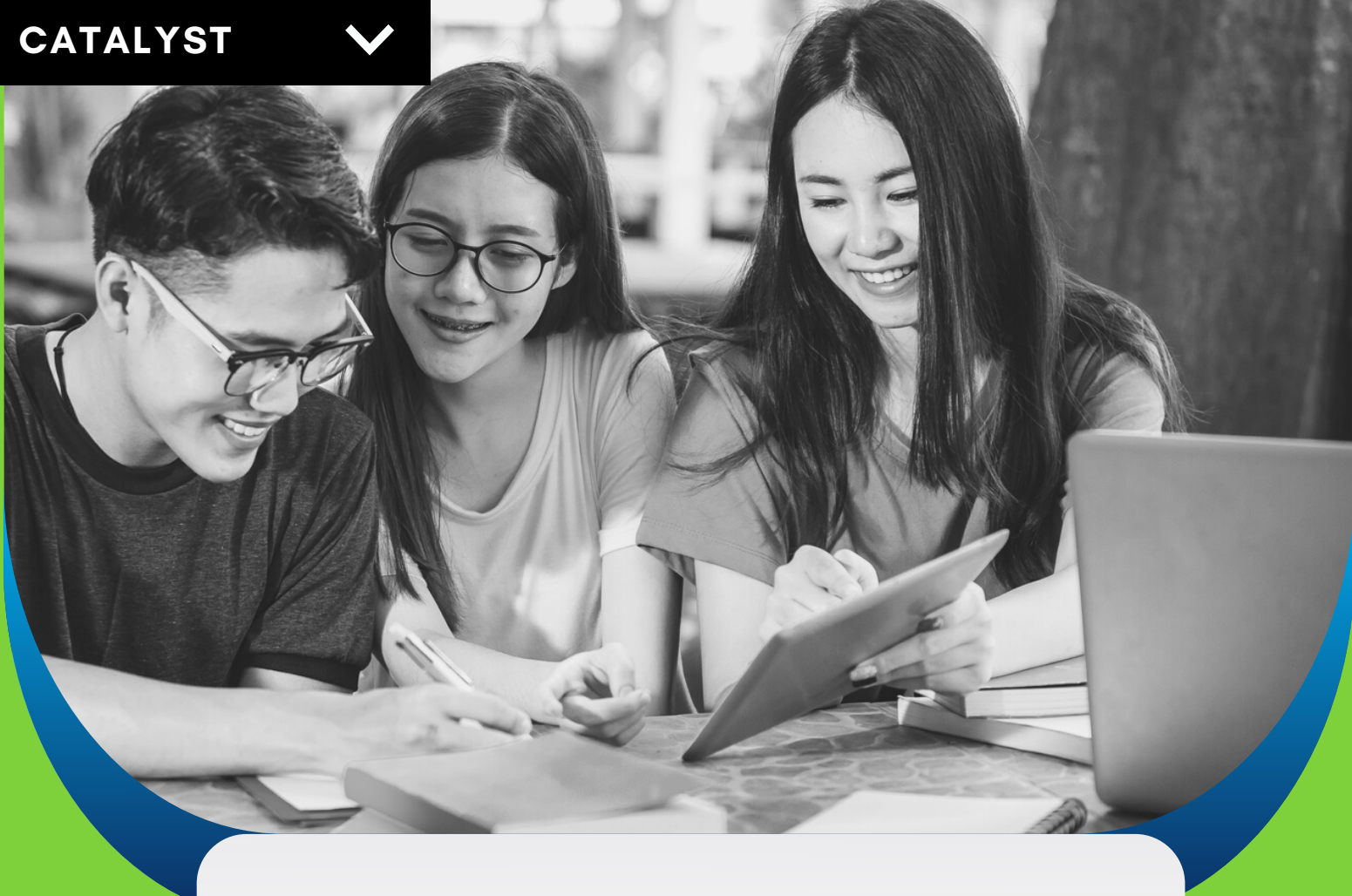
Raise awareness and promote interest about young women in STEM, create new and innovative ideas, build connections and partnerships within the industry and form new ventures that create impact; a movement that encourages the question: why wait?

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Scanning
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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



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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



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Website: www.myfinb.com/sofinaa



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Website: www.globalchamber.org



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Website: www.yudiz.com



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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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- 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



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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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