

AI TRENDS 2023



AI TIME JOURNAL

Table of Contents

Table of Contents	2
Engage With Our Upcoming Ebooks!	3
AI Trends 2023	4
Media Partners	6
AI Trends According to 36 Experts	7
Adit Jain	8
Chris Lu	9
Jehan Hamedi	10
Suman Kanuganti	12
Bernadette Nixon	13
Krishna Rungta	14
Amir Orad	16
David Feuer	18
Ranjay Kumar	20
Alice Rowen Hall	22
Amaete Umanah	23
Karl Robinson	26
Ovidiu Cical	27
Ryan Gray	28
Alexandre Robicquet	31
Maria Harutyunyan	32
Jessica Higham	33
Brenton Thomas	34
Chirayu Akotiya	35
Rohit Gupta	37
Christopher Willis	38
Marc Hardgrove	40
Tomer Borenstein	41
Jim Liu	43
Jamie Irwin	45
Tony Fernandes	46
Shanal Aggarwal	48
Jeff Mahler	51
Greg Kostello	52
Boris Jabes	54
Amey Dharwadker	55
Marc Maleh	56
Samson Vowles	57
Deanna Ballew	59
Deepu Prakash	61
Vall Herard	63

Engage With Our Upcoming Ebooks!



Upcoming Ebooks

Title	Publication Date
AI in SEO Trends 2023	Jun 21st
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AI Trends 2023

The field of artificial intelligence (AI) continues to evolve rapidly, bringing forth new trends and innovations that shape the way we live and work. AI is revolutionizing various industries, enabling personalized experiences, driving efficiency, and fostering collaboration between humans and machines.

In this overview, we will explore the top trends in AI for 2023 and how they are transforming different sectors:

Personalization and Generative AI: AI enables hyper-personalization of marketing messages, adapting content to individual consumers.

Democratization of AI: AI tools and platforms become more accessible, allowing businesses and individuals to leverage AI without extensive technical knowledge.

Ethical AI Development and Deployment: Companies adopt ethical guidelines to address concerns around data privacy, bias, and transparency in AI usage.

Predictive Analytics: AI systems leverage historical data and machine learning algorithms for accurate decision-making and informed predictions.

AI-powered Creative Augmentation: AI technology optimizes and personalizes visual content, leading to cost and efficiency gains and improved consumer experiences.

AI-powered Healthcare: AI applications improve diagnostics, personalized treatment plans, and overall healthcare management.

AI for Cybersecurity: AI-powered security solutions safeguard data and networks from sophisticated cyberattacks.

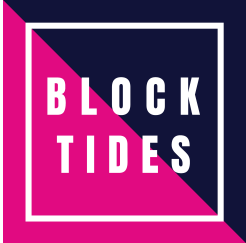
AI-enabled Automation: AI streamlines operations, reduces costs, and improves efficiency through automation.

Edge Computing with AI: AI-enabled edge computing offers faster data processing and analysis.

AI-enhanced Creativity: AI provides suggestions, automates tasks, and generates ideas, boosting human creativity.

These trends encompass a wide range of applications and advancements in AI, spanning various industries and domains. They represent significant developments that have the potential to shape the future of AI and drive transformative outcomes in business, healthcare, security, and more.

Media Partners



AI Trends According to 36 Experts

To provide a comprehensive outlook on the future of artificial intelligence, we asked 36 industry experts and leaders to share their insights on the most significant trends emerging in 2023. From human-AI collaboration to AI and empathetic AI, discover the top AI trends as predicted by founders, CEOs, and marketing executives.

Adit Jain

Co-founder and CEO of Leena AI

Over the past few years, AI has brought about significant transformations in our lives. One of the most noticeable changes is how organizations are using **AI to create more advanced and efficient workplaces.**



Looking ahead, I expect to see the rise of contextual understanding and sentiment analysis by AI. With the usage of a Natural-Language Processor (NLP) and Natural-Language Generation (NLG), virtual assistants will be able to comprehend discussions better and improve the quality of their responses, thereby providing exceptional personalized services and experiences to their employees.

Chris Lu

Co-Founder of Copy.ai

1. **AI-enhanced creativity:** AI will play a significant role in boosting human creativity. By providing suggestions, generating ideas, and automating mundane tasks, AI can help us think outside the box and create more innovative solutions.
2. **Human-AI collaboration:** As AI becomes more sophisticated, we'll see a shift towards a more collaborative approach, with humans and AI working together to achieve better results. This will lead to the development of more user-friendly AI tools that can adapt to individual needs and preferences.
3. **Ethical AI:** As AI continues to permeate various aspects of our lives, there will be a growing emphasis on ensuring that AI systems are developed and deployed ethically. This includes addressing issues like data privacy, algorithmic bias, and transparency in AI decision-making.



Jehan Hamedi

Founder & CEO of Vizit

Artificial intelligence is critical for businesses undergoing digital transformations as they try to keep up with digital demand. As brands are increasingly shifting their focus online, they must have access to the technology they need to make sense of the massive amounts of consumer data to make smarter decisions faster.



Tools like ChatGPT and AI image generators are already making waves, but they come with legal and ethical considerations that many businesses don't want to touch. Instead, 2023 will see many brands aim for a middle ground – using AI to augment creative capabilities while still putting creators in the driver's seat. This AI-powered creative augmentation will emerge as a trend in 2023.

Compared to more experimental and limited capabilities in the past, 2023 will increasingly see **AI applied to everyday creative tasks**, like selecting images to promote products on the digital shelf or designing packaging for new brands. These capabilities result in the optimization and personalization of visual content for consumers at a scale never before possible. Brands implementing this AI technology into their digital marketing workflows can achieve massive cost and efficiency gains in research, increase testing and insights capabilities, experience lifts in e-commerce performance and sales, and ultimately improve their end-consumers' experience.



“A futuristic city with towering skyscrapers and flying vehicles, set against a vibrant sunset, Tech, serene, high detail” - ChatGPT4 + DreamStudio

Suman Kanuganti

CEO of Personal.ai

To date, AI chatbots have been built on large language models and are typically used for tasks such as machine translation and speech recognition, as it scours the internet for generalized answers. While they're great for general info, they're severely lacking in personality in the content generated.



Personal language models are trained on a smaller corpus of text data that is specific to an individual user. This technology allows users to extend their communication bandwidth through the help of AI and form deeper relationships through communication.

Bernadette Nixon

CEO of Algolia

In enterprise AI, 2023's biggest trend will be the huge disruption that's coming as a result of vector search. Vector embeddings recently emerged as a promising technology to power **more relevant site searches**. By understanding consumer intent vector search delivers the right results. This eliminates the necessity for most synonyms and rules that come with keyword search, ensuring website developers don't need to spend hours fine-tuning their search by adding synonyms, formulating search rules, plugging in language packs, etc. This is the innovation behind semantic search engines, which understand queries like "something for a headache" and deliver pain medication - rather than the ever-dreaded "no results" page.



Vector search products are trained on a huge corpus of data and are slow and incredibly expensive to store and deploy at scale. Enter Neural Hashing, a technique that compresses vectors to eradicate crazy processing expenses. As a result, neural hashing makes highly intelligent AI fast and cost-effective at the enterprise scale, without the need to bring on highly specialized engineers for every project. We are at a turning point in artificial intelligence, and neural hashing is the driving force behind many future innovations.

Krishna Rungta

Founder of Guru99

As we move further into 2023, the field of artificial intelligence (AI) continues to evolve at a rapid pace. Here are some key trends emerging in the AI landscape:



1. **Responsible AI:** As AI becomes increasingly integrated into our daily lives, there's a growing focus on ensuring AI systems are developed and deployed ethically, transparently, and responsibly. This includes addressing concerns related to privacy, security, and fairness.
2. **AI for Good:** Leveraging AI to address pressing global issues like climate change, healthcare, and humanitarian crises has gained momentum. AI-driven solutions are being developed to improve resource management, predict natural disasters, and advance medical research.
3. **AI in Cybersecurity:** AI is playing a vital role in enhancing cybersecurity capabilities, with advanced algorithms capable of detecting and responding to threats in real-time, and automating incident response processes.

4. **Human-AI Collaboration:** The focus is shifting towards developing AI systems that collaborate with and augment human capabilities, rather than replacing them. This trend emphasizes the importance of designing AI tools that enhance human decision-making and problem-solving.
5. **Edge AI:** As more devices become connected, edge AI is gaining traction, enabling AI algorithms to run locally on devices like smartphones and IoT devices. This reduces latency, conserves bandwidth, and enhances privacy.
6. **AI in Natural Language Processing (NLP):** Advancements in NLP are expected to continue, with AI models becoming even more sophisticated in understanding and generating human language, enabling improved human-machine communication.

These trends signify the exciting and transformative potential of AI as it permeates various aspects of our lives, while also highlighting the need for responsible development and deployment.

Amir Orad

Executive Chairman of Sisense

I see two trends emerging in the field of AI.

First, is the trend of **unintended consequences**.

With AI moving so quickly now, there are bound to be unintended consequences and mistakes. For example, if you ask AI to reduce global warming, it may shut down all the traffic in the world, accomplishing its goal, but in a very disruptive way. Or, perhaps you ask AI to make the world a happier place and in doing so, AI falsifies and distributes good news.



The second trend emerging is **augmented humans**. Despite sounding like science fiction, this is where things are headed. There are already glasses someone can wear that will suggest how to respond to other people in a conversation. These augmentations could take the form of implants, virtual reality gear, etc. But regardless, humans will start to be “super-powered” with AI capabilities in the coming year and beyond, given the much easier access now to stronger everyday AI.



“Capture the breathtaking dance of galaxies and planets in a single mesmerizing, intense, detailed, epic image” - ChatGPT4 + DreamStudio

David Feuer

Chief Product Officer at Galileo Financial Technologies

AI-Powered Conversational Banking. Banks have attempted to use AI to automate and streamline customer interactions long before Chat GPT, but they've struggled to achieve true conversational banking. This is finally changing. AI technologies have dramatically improved in recent years and analysts have declared 2023 the year of the chatbot.



Financial leaders who are ready to drive digital transformation forward can become more connected to their customers through technology that engages and delights them with a personalized experience at every stage of their journey, across any digital channel. This requires replacing legacy chatbots with truly connected, conversational AI. Yesterday's chatbots are hurting the customer experience they were designed to help, with 80% of people who have interacted with one saying it increased their frustration.

Conversational AI, which uses machine learning and natural language processing, can improve efficiencies and lower costs, go beyond small incremental fixes in broken customer service models to truly transform the customer experience, and uncover new revenue streams for banks and credit unions.

Achieving this in financial services requires a proven AI engine with an intelligent digital assistant, like Cyberbank Konecta, that draws on each customer's financial history and behavior patterns as a comprehensive foundation to address specific customer needs.

Ranjay Kumar

VP of Data, AI Research, and Development at Powerfleet

Harnessing the **Power of AI and IoT** for a Better Future. In 2023, the fusion of artificial intelligence (AI) and the Internet of Things (IoT) is transforming industries, unlocking opportunities for businesses and consumers. AI is enhancing human-AI collaboration, optimizing energy consumption, minimizing waste, and fostering sustainability across sectors.



Edge AI, enabling real-time decision-making by processing data on IoT devices, has emerged as a game-changer. This localized intelligence boosts efficiency and security while significantly cutting operational costs. A prime example is the adoption of AI-driven digital twins in the IoT domain, where virtual replicas of physical assets facilitate system simulation, optimization, and prediction.

Technological breakthroughs in natural language processing, large language models, and computer vision have revolutionized human-machine interactions. Voice assistants, such as Amazon's Alexa, and facial recognition systems are now integral to smart homes and industrial environments, refining user experiences and streamlining processes.

In agriculture, AI-powered IoT devices help monitor crop health and optimize irrigation, substantially increasing yield and reducing water waste. In healthcare, AI-IoT integration enables remote patient monitoring and personalized treatment plans, improving patient outcomes.

Ultimately, the convergence of AI and IoT within the supply chain and transportation will enhance innovation, efficiency, and resilience in an increasingly interconnected world. We eagerly anticipate the far-reaching impact they will have on our lives.

Alice Rowen Hall

Co-Founder & Creative Director of Rowen Homes

We have seen a peek at the potential of huge language models and their significance in **scaling relevant marketing content without actually writing it** thanks to ChatGPT 3's rapid success. The advent of hyper-personalization that is optimized for AI is also another trend to watch out for.

AI will adapt marketing messages to each consumer's unique cyber identity by fusing the most recent advancements in deep neural networking with advancements in audio, video, and image processing techniques. **The entertainment and e-commerce sectors will be significantly impacted** by this trend.



Amaete Umanah

Founding Partner of Amaete AI

In 2023, several trends are emerging in the field of artificial intelligence:

1. **AI Democratization:** Open-source AI platforms and pre-trained models are becoming increasingly accessible, allowing businesses of all sizes to leverage AI technology without requiring extensive in-house expertise.
2. **Edge AI:** The integration of AI algorithms into edge devices, such as smartphones and IoT devices, is enabling real-time data processing and decision-making without relying on the cloud.
3. **Responsible AI:** Ethics and accountability are becoming focal points, as developers and organizations prioritize creating AI systems that are transparent, fair, and privacy-preserving.
4. **AI-powered Automation:** Industries are adopting AI-driven automation to improve operational efficiency, streamline workflows, and reduce human error.
5. **AI in Healthcare:** AI applications in healthcare are growing, including drug discovery, diagnostics, and personalized medicine, contributing to improved patient care and outcomes.



6. **Natural Language Processing (NLP)** Advancements:

Breakthroughs in NLP are enhancing human-computer interaction, enabling AI to better understand and generate human-like text, making it more useful in applications such as customer service, content generation, and language translation.



“Offer a glimpse into a future where the horizons of progress are infinite, and the human spirit soars in tandem with AI and technology” - ChatGPT4 + DreamStudio

Karl Robinson

CEO of Logicata

Cybersecurity is becoming increasingly critical as digital transformation continues to take hold. As organizations continue to migrate more of their business operations and systems online, they must remain alert to the ever-evolving cyber threats posed by malicious actors looking for weaknesses in networks and data repositories.



To this end, **AI-driven cybersecurity solutions** are becoming increasingly popular due to their ability to identify and respond to malicious activity much faster than humans. They can monitor, detect, and fix issues in real-time, as well as provide visibility into potential threats and risks.

Going into the future, we can expect AI-driven cybersecurity solutions to become even more advanced, enabling organizations to protect their digital assets better.

Ovidiu Cical

CEO and Co-founder of Cyscale

With my knowledge and expertise in technology, I wanted to provide my insights into your query.

The year 2023 will see a rapid integration of Artificial Intelligence tools and software into everyday business use. This is because as more people are becoming familiar with using these AI applications, they are getting to know that they make things easier. They just need to be smart enough to know where to use it in their favor and where to stop so that they don't end up damaging their skills. **Businesses will be seen integrating it to make repetitive tasks easier** and use their manpower for other core business functions where it requires human judgment and creativity.



Ryan Gray

CEO and Founder of Name Hero

As you look ahead to 2023, a few key trends are emerging in artificial intelligence.

Firstly, we notice an increase in **AI-human collaboration**. AI is being designed not just for automation but also to augment human capabilities. For example, we see applications like smarter virtual assistants or tools that help streamline workflow processes.



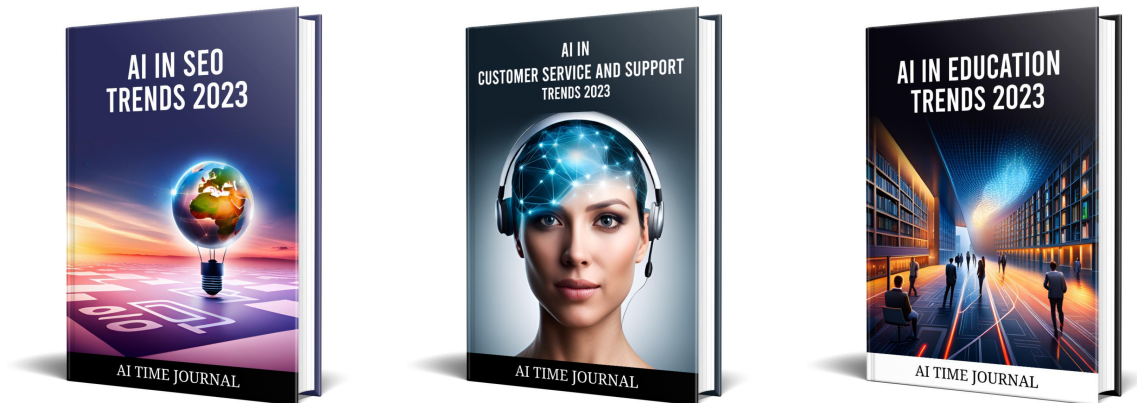
Secondly, the growing importance of **ethical considerations** cannot be ignored. Companies developing and implementing AI technologies must address privacy issues and potential bias in data sets used for training algorithms.

Another trend worth mentioning involves **explainable AI**: as machine learning models become more complex and powerful, understanding their decision-making process becomes increasingly challenging. To foster greater trust between end-users and developers, it's crucial to prioritize transparent algorithms that can provide insights into how conclusions were reached.

If we consider advances in natural language processing, it's evident that AI is becoming increasingly adept at understanding human language. This trend will result in even more accurate translation services and better chatbot functionalities in the coming years.

Furthermore, edge computing plays a significant role by processing data closer to its source instead of relying solely on cloud servers. This technique reduces latency, improves response times for real-time applications like autonomous vehicles, and optimizes resource usage.

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Alexandre Robicquet

CEO and Co-Founder of Crossing Minds

AI in home security continues to be a major trend going into 2023. With machine learning in AI, there is strong potential for faster response times and simplified, automated processes for alerting homeowners, authorities, etc. on any given situation at the house.



The main consideration for any homeowner regarding AI is what specifically they want out of the system. Many **AI-powered security systems** are capable of facial recognition, intelligent counting and object-tracking, and a plethora of other highly advanced monitoring and detection systems.

Maria Harutyunyan

Co-founder of Loopex Digital

One of the most significant trends I see in artificial intelligence is the increasing **collaboration between humans and AI** in 2023. This shift towards a more symbiotic relationship between humans and machines will usher in an entirely new era of potential.



We'll see human-AI teams that can tackle tasks far beyond what either could accomplish on their own, such as advanced analytics, machine learning applications, and even reconstructing entire systems from scratch.

At our agency, we're already seeing this trend emerge as AI assistants. With the help of these tools, our writers can quickly analyze competitors' content and even optimize for voice search. These tools are not designed to replace our writers or specialists, but rather to assist them in producing higher-quality content more efficiently and streamlining mundane tasks.

So, it's clear that the fusion of humans and AI is here to stay—it's up to us to embrace and leverage it to its fullest potential.

Jessica Higham

Marketing Manager at Onoco

AI can often feel like a separate entity to our everyday lives; we can see AI tools being used and implemented by others, but often feel like "What does this mean for me?"

A trend we are seeing is a more open conversation about what AI is and what it can do for us, beyond generating text or imagery. An example is a growing trend of using AI in digital tools, such as apps for parents, to help them better understand their baby's unique routines and behaviors rather than relying on online advice.

By bringing AI more into the mainstream and showcasing its power to make tangible (and helpful!) recommendations, we can go beyond AI being a gimmick.



Brenton Thomas

CEO of Twibi

One trend that is emerging in the field of artificial intelligence in 2023 is the increasing prevalence of generative AI. **Generative AI** is a subfield of machine learning that involves generating new data or content using existing data as a training set. This has a wide range of potential applications, including in art, music, and literature, as well as in fields such as medicine and manufacturing.



As generative AI technology advances, we can expect to see more products and services in the market that use this technology to create new and innovative content, products, and solutions.

Chirayu Akotiya

Global Head of Marketing at Leena AI

In 2023, a significant trend will emerge that will transform how organizations approach employee engagement and productivity. This trend is the rise of empathetic AI, which is the next evolution in AI technology. **Empathetic AI** builds emotional intelligence and an understanding of algorithms and models.



By incorporating emotional and social cues, it can better understand and respond to human emotions and needs, leading to more meaningful interactions and better outcomes. This technology has enormous potential in enterprise employee experience, where it can help create personalized and engaging experiences, leading to higher job satisfaction and retention rates.

Empathetic AI can identify areas of concern or dissatisfaction and provide proactive solutions to improve the overall employee experience. It can also facilitate more meaningful interactions between team members by understanding communication styles and preferences, leading to enhanced workplace collaboration and communication.

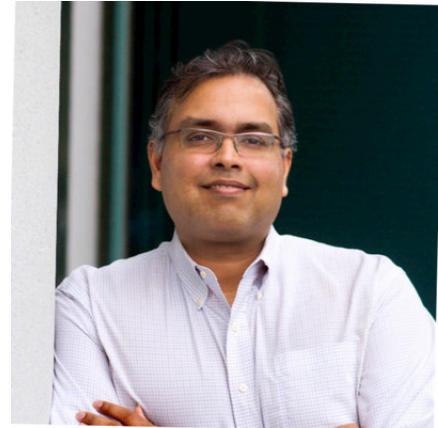


"Daring astronaut, space suit and helmet, standing in front of futuristic spaceship, adventurous, detailed, high detail, portrait" - DreamStudio

Rohit Gupta

Founder & CEO of Auditoria.AI

Finance embraces Intelligent Applications. As more applications move into the Cloud, a new breed of applications emerge that are data-centric, and have contextual intelligence built in to drive business processes and support business users to achieve the highest levels of productivity. These intelligent applications will take over 75% of the routine and mundane business processes and will be embraced by Finance in 2023.



FinOps will become a mainstream part of Finance. FinOps, which was once a part of Cloud Cost management and optimization, becomes an integral part of budgeting, planning, and other Finance workstreams.

Automation is a strategic advantage for finance. While AI was once seen as “cool,” it will now be a strategic advantage for companies looking to stay one step ahead of the competition.

Christopher Willis

CMO at Acrolinx

As the field of generative AI continues to explode, enterprises will increasingly recognize the importance of implementing governance, frameworks, and guidelines to protect themselves from financial, legal, and compliance risks. While organizations are eager to benefit from the productivity boost that comes with using **generative AI**, they also



want to make sure they're using it safely and confidently. Content governance platforms, which operationalize and maintain content strategy and impact over time for enterprises, are some of the ways to provide this added layer of protection.

We know enterprises are looking for that safety net because it's what we're hearing from our customers – some of the biggest and most recognizable brands in the world. Recently, we've been focused on implementing a new solution to our content governance platform that provides the added protection businesses need to safely incorporate generative AI into their content supply chain. We believe content governance is crucial because content fuels businesses, and having good quality content can be the difference between success and failure.

As generative AI tools become more widespread, enterprises will need to plan their content strategy and guidelines to be used alongside them. More and more enterprises will turn to content governance platforms to apply rules, manage content assets, enable writers, and measure performance. The bottom line is that you can't have generative AI without a safety net, so it's crucial to make sure that guardrails are in place to protect businesses while still reaping the benefits of this game-changing technology.

Marc Hardgrove

CEO of The Hoth

The key AI trends in 2023 will revolve around ethics, human-AI collaboration, and AI-driven products.

Hence, I believe that one trend I see emerging in 2023 is the use of **deep learning** to create more sophisticated AIs. Deep learning algorithms have been used to create AIs that

can recognize images, but they are also being used to create AIs that can recognize the language, which will make it possible for these systems to become self-learning and self-improving.

This will make them capable of not only understanding what people say but also why they say it. This will enable AIs to become more efficient at their jobs and better at solving problems.



Tomer Borenstein

CTO and Co-Founder of BlastPoint

A lot is happening in AI right now, so lots of things to watch. Image Generated Art took the internet by storm this summer, and there are already a lot of really interesting ways in which this technology is integrated into different media workflows, which will give rise to some interesting new businesses (e.g. imagine celebrities selling Image Generation Models based on their likeness).



Something that, in my opinion, is even more impressive and impactful but hasn't quite caught up to the mainstream is **the developments in natural language processing** with large language models like GPT-4 and the like. Similarly, I think we're going to start seeing more and more innovative ways people use these models and connect them in a way that can really disrupt a lot of industries.

There are a few limitations. Even though AI research is progressing at an unprecedented pace right now, access to the computing power and data required to build these models has a very high barrier to entry.

Stable Diffusion, one of the most popular Image Generation Models, is open source and shared freely with the community for further innovation.

Most high-performing large language models, though, are still proprietary and gated behind APIs. I think it's important that these kinds of advancements are shared and worked on collaboratively, but it's a nuanced debate that I think the AI community will be grappling with more and more in 2023, especially with the success of Stable Diffusion as an open source model and the incredible power behind these large language models.

Similarly, on the Image Generated Side, we are already grappling with some **ethical AI issues around IP ownership**. Still, it should continue to be a very exciting year for AI and the ways it'll be wielded to solve problems in novel ways.

Jim Liu

CEO of SEO Vendor

One significant trend is the **democratization of AI**, with more accessible tools and platforms enabling businesses and individuals to harness the power of AI without needing extensive technical knowledge. This has led to an explosion of AI-driven solutions in various industries, with marketing being a prime example.



Another trend is the integration of **AI with human creativity**. By analyzing and learning from human-generated content, AI systems like SEO GPT - which I created - can generate optimized content for marketing companies and entrepreneurs in more than 200 ways. This synergy between human and artificial intelligence paves the way for enhanced collaboration and productivity.

Lastly, **ethical AI development and deployment** are gaining increased attention. As AI continues to permeate various aspects of our lives, concerns regarding data privacy, algorithmic bias, and transparency have become paramount. Companies and developers are increasingly adopting ethical guidelines to ensure responsible AI usage.

These trends indicate that AI is becoming more accessible, collaborative, and responsible, pushing the boundaries of innovation while remaining mindful of its ethical implications.



"Bronze statue of a king, with regal attire, a crown, and a stern expression, highly detailed, dramatic lighting, commanding presence" - ChatGPT4 + DreamStudio

Jamie Irwin

Digital Marketing Expert at TutorCruncher

In the realm of artificial intelligence, I believe that the most significant development that will emerge in the year 2023 is an increasing reliance on **predictive analytics**.

Artificial intelligence has the potential to anticipate decisions that are better informed and more accurate based on historical data, machine language algorithms, and statistics.

Therefore, predictive analytics is rapidly becoming a popular practice in the majority of software organizations.



Tony Fernandes

CEO of UEGroup

As companies race to get their tools, integrations, and approaches to AI out into the world, there is increased importance in bringing people who will be using or impacted by these technologies to the forefront of the conversation. **AI advances promise greater efficiency, optimization, and resources for creativity.** But as ChatGPT and other AI technologies are integrated into areas of work and life, they should be viewed as exactly that - a resource, not a replacement.



UEGroup recently completed a study around Core Value Alignment for AI Adoption where real people were presented with various use cases to observe how they interact with the technology and core values driving those uses. Cases ranged from leveraging AI to help make a purchase decision and researching sensitive health information to supporting professional responsibilities.

We found an intrinsic level of trust and confidence exists with AI, specifically ChatGPT, due to its ability to deliver competent, human-like responses. When it comes to using AI for work responsibilities-from writing code or used to support crafting a cover letter- the outcomes people want to see from AI are saving time on tasks, reducing effort & stress, helping

with communication, and aiding in career success, as reported by research participants.

While AI can help individuals accomplish these outcomes, the values driving those wants are the need for Productivity & Control, Achievement & Competency, and Approval From Others.

Similar outcomes are wanted when using AI to help make a purchase decision and research health information. Features like presenting unbiased facts and having a concise format help individuals make decisions quickly and ultimately taps into values around Productivity & Control, Safety & Security, and Connectedness & Caring for Others.

People want to use AI, specifically **ChatGPT, as a resource to generate ideas, both personally and professionally**, but not a replacement.

Individuals want ultimate control over the technology and outputs it delivers. While it can help aid creativity, expedite information extraction, and aid in everyday tasks like writing, however, it is not a replacement for workers. As organizations integrate and build AI they must align with the values of humans using it - how they want to interact with it, how they want to see it evolve, and the values driving their want to use it.

Shanal Aggarwal

CCO of TechAhead

- AI-powered healthcare:** With the ongoing pandemic, the healthcare industry has been actively exploring ways to leverage AI to improve patient outcomes. In 2023, we can expect to see a surge in AI-powered healthcare solutions that can help with everything from diagnostics to personalized treatment plans.
- AI for cybersecurity:** Cybersecurity threats are increasing in frequency and sophistication, and AI can help companies stay ahead of the curve. In 2023, we will see more businesses adopting AI-powered security solutions to safeguard their data and networks.
- AI-enabled automation:** Automation has been a buzzword for a while now, but in 2023, we will see more companies incorporating AI into their automation strategies. AI-powered automation can help businesses streamline their operations, reduce costs, and improve efficiency.
- Edge computing with AI:** Edge computing involves processing data on devices themselves, rather than in the cloud. In 2023, we will see more AI-enabled edge computing solutions that can deliver faster, more efficient processing and analysis of data.



5. **AI-powered personalization:** With the rise of big data and the Internet of Things (IoT), companies are collecting more customer data than ever before. In 2023, we will see more businesses leveraging AI to analyze this data and deliver personalized experiences to their customers.

Overall, AI will continue to transform industries and change the way we live and work. At TechAhead, we are constantly innovating and developing cutting-edge AI solutions that can help our clients stay ahead of the curve.



“Futuristic shopping center with an emphasis on natural light, an open-air interior, and eco-friendly features, contemporary, high detail, architectural renderings” - ChatGPT4 + DreamStudio

Jeff Mahler

Co-Founder & CTO of Ambi Robotics

In the field of supply chain robotics, Sim2Real AI will be a game changer in 2023. This technology will enable us to create more accurate and adaptable AI systems that can better handle the complex and dynamic environments of warehouses and logistics centers.



The ability to train AI models in simulation and then transfer that knowledge to the real world is a breakthrough for **supply chain robotics**. Sim2Real AI will enable us to build more reliable and efficient systems that can adapt to changing conditions in real time.

Greg Kostello

CTO & Co-Founder of Huma.AI

Major AI trends will involve leveraging multimodal and multiagent approaches in automating **generative AI at scale**. For example, imagine a medical diagnosis scenario where multiple AI agents, each specialized in analyzing different types of data (e.g., text, images, and sensor data), collaborate to generate comprehensive diagnostic reports.

This multimodal approach can drastically improve diagnostic accuracy and streamline the healthcare process.



Another example is the utilization of multiagent systems in urban planning. **AI agents**, each representing various aspects such as transportation, environmental sustainability, and economic growth, can work together to develop optimized city layouts, balancing the needs of diverse stakeholders. This collaborative effort enables the generation of innovative urban designs, free from human biases.

In product development, AI agents with different specialties can collaborate to optimize and enhance designs. For example, one agent can focus on materials and structural integrity, another on energy efficiency, and a third on aesthetics. These agents can work together to generate innovative product concepts, which are then validated by human experts.

In all instances, semi-autonomous generative models work collectively, incorporating human input and validation from subject matter experts to ensure the proposed solutions are practical and effective. By combining multimodal and multiagent approaches, AI systems can tackle complex, multidimensional challenges more efficiently than ever before.

Boris Jabes

CEO and Co-Founder of Census

With the rapid growth of data and its accessibility, we can expect to see an increase in **AI-powered predictive analytics** that will help businesses make more informed decisions not just in forecasting sales or predicting customer demand but in a wide range of areas like supply chain optimization, fraud detection, and even company cost reduction. There will be a greater focus on AI-driven automation to streamline operational processes and drive better efficiency.



As someone who helps companies build more accurate operations with data platforms, I see data playing a significant role in driving AI innovation. This means AI models will be able to leverage more and better data sources. This, in turn, will lead to greater performance of machine learning algorithms and deeper learning capabilities that can understand complex relationships between data points.

Amey Dharwadker

Machine Learning Technical Lead at Meta

One of the most exciting AI trends of 2023 is the **continued growth of explainable AI**, which allows developers and users to better understand how AI systems make their decisions. This is becoming increasingly important as AI is deployed in critical applications such as healthcare and finance where transparency and accountability are essential.



Additionally, we are seeing more emphasis on **ethical AI** with companies and organizations working to ensure that AI is developed and deployed responsibly and ethically. This includes addressing issues such as bias, privacy, and the impact of AI on society as a whole.

We are also seeing more AI systems being developed specifically for small and medium-sized businesses to level the playing field and increase access to the benefits of AI. This is being driven by the increasing availability of low-cost AI tools and platforms that can be customized to meet the specific needs of different businesses.

Marc Maleh

SVP, Emerging Technology and Connected Experiences at Valtech

Businesses need to think about **AI as the next wave of platforms**. We can think about how the internet was born and we then created experiences and services on top of the network. We will do the same with AI platforms (we already are with brands like Expedia and Instacart creating experiences on ChatGPT). We saw the same wave with Blockchain and social media and products built on top of both.



Who remembers Facebook Apps? AI and generative AI should be thought of as our next wave of platforms to build on, not just the thing that will scare us and take our jobs.

Samson Vowles

YouTuber & Founder of Delightful Design

Engineering is poised for immense breakthroughs. AI's ability to design efficient, affordable, and powerful components will transform industries like manufacturing, architecture, and transportation.

By simply prompting AI for enhanced designs, we unlock untapped productivity and herald an age of unmatched progress for humanity.



Those who adapt to the AI revolution and collaborate with it will not only thrive but also usher in a new era of discovery, surpassing the impacts of both the Agricultural and Industrial Revolutions. Additionally, watch for **developments in AI rights equal to humans, AI embodiment, and virtual AI universes.**



"Mystical underwater world with vibrant coral and exotic sea creatures, sun beams shining through the water, mysterious, magical, otherworldly" - ChatGPT4 + DreamStudio

Deanna Ballew

SVP of Product at Acquia

We are going to see a lot of experimentation in 2023 and **new products emerging to add business value to ChatGPT**. It will become an expected feature of many of the tools that we write and design—Word, Google Docs, spreadsheets, Photoshop, and more. This will also extend into how support agents respond to consumers either using automated bots or by quickly getting an answer themselves by leveraging ChatGPT on their own data set.



ChatGPT will become ingrained in our daily writing activities and leveraged to generate ideas or even start a code. ChatGPT will provide users with a great starting place, but they will need to modify the output to ensure accuracy, avoid plagiarism, and ultimately develop the best result. This only becomes possible when you add in the perspective of a user informed by years of experience. Our expectations of how we get started on an idea will change, how we do research, and how both bots and humans respond to service requests—the underlying foundation is now altered and we will adapt to make us more efficient and creative.

Additionally, there are a lot of things AI tools such as ChatGPT will impact over the next few years, and online search behavior is a prime example.

Before the internet, we used to go to the library, read books and buy encyclopedias that were out of date to conduct research. Now, with the internet and search engines like Google, we can easily type a few words or phrases into the search bar and receive hundreds of results, opening up the opportunity for anyone to learn from anywhere. ChatGPT could transform this process one step further. Rather than needing to sift through the results on Google, ChatGPT synthesizes all of the information into one search result. That said, while it can be exciting to think about this from the perspective of user experience, users will still need to exercise due diligence to ensure that they are collecting accurate data and insights.

This will also **impact SEO** in a major way. If people no longer need to search on Google to find 10-12 links that will educate them on a topic, SEO for that type of content will not be as important. SEO strategies will need to be reconsidered and brands will need to find new ways to attract users to their site.

Deepu Prakash

Executive Vice President at Fingent

The world of Artificial Intelligence (AI) continues to evolve at an impressive pace, presenting **new prospects and challenges for Learning and Development (L&D) professionals**. To keep up with the latest AI trends, L&D practitioners must stay up-to-date with the latest developments and technologies and understand how to leverage them to improve employee training and development.



One of the most exciting AI trends for L&D is personalized learning. AI algorithms can analyze employee performance and learning patterns to create individualized learning paths that cater to the unique needs and learning styles of each employee. This can enhance engagement and retention, making training more effective and efficient.

Another trend is the use of **AI-powered virtual assistants** that provide real-time feedback and support to employees during training. These virtual assistants can answer questions, offer guidance, and even recommend further learning based on an employee's performance.

AI is also making it easier for L&D professionals to assess employee learning and identify knowledge gaps. By analyzing employee performance data, AI can pinpoint areas where employees may need additional training or support, allowing L&D professionals to create targeted training programs that address specific needs.

Furthermore, AI is enabling new forms of immersive learning, such as virtual and augmented reality training. These technologies can provide realistic simulations and scenarios, allowing employees to practice and apply their skills in a safe and controlled environment.

Lastly, platforms like Skill Lake that offer AI-powered course recommendations are making it easier for L&D professionals to curate and deliver training programs that are relevant and engaging for each employee. By analyzing employee performance and learning patterns, AI can recommend courses and training materials that are most suitable for each employee, improving the overall effectiveness of training programs.

While these AI trends offer significant potential for L&D professionals, it's crucial to implement them responsibly and ethically. To ensure that AI is used ethically, L&D practitioners must ensure that the data used to power AI algorithms is diverse and inclusive and that human oversight is maintained to prevent the reinforcement of existing biases.

In conclusion, AI is transforming the field of L&D by offering new opportunities for personalized learning, real-time feedback and support, knowledge gap analysis, immersive learning, and course recommendations. By embracing these AI-powered solutions, L&D professionals can create more effective and engaging training programs that improve employee performance and drive business success

Vall Herard

CEO and Co-founder, of Saifr.ai (Fidelity Labs)

LLMs are dominating AI conversations and I think that will continue.

Here are three trends that I see for 2023:

1. **Domain-specific versions:** Current LLMs were trained on large volumes of public, internet data. When used for very specific purposes, like the medical, pharmaceutical, or financial fields, they hit their limits of available information and begin to “hallucinate” and deliver uninformed results. The next wave of AI advancement will use industry-specific and private data. These domain-specific LLMs will be better suited to tailored tasks within those industries.
2. **Modular models:** Current LLMs are unable to solve complex tasks; modular models are the next step. Modular models chain sub-models together to complete a single task. Think of the “Are you a human” authentications: how many bridges/crosswalks do you see? Only humans can solve these due to the steps: identify, count, and sum. That is changing.



3. **Self-critiquing versions:** LLMs can get it wrong. What if LLMs could check each other's work? Upcoming iterations of LLMs will have a rudimentary ability to perform statistical reflection. They will evolve to be capable of self-critiquing. LLMs will examine whether the output of another generative model is "on the right track" during generation. This should help lead to better LLMs and reduce hallucinations and safety and ethical concerns.

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