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AI:10

GET INSIGHTS ON AI UNDER 10 MINUTES

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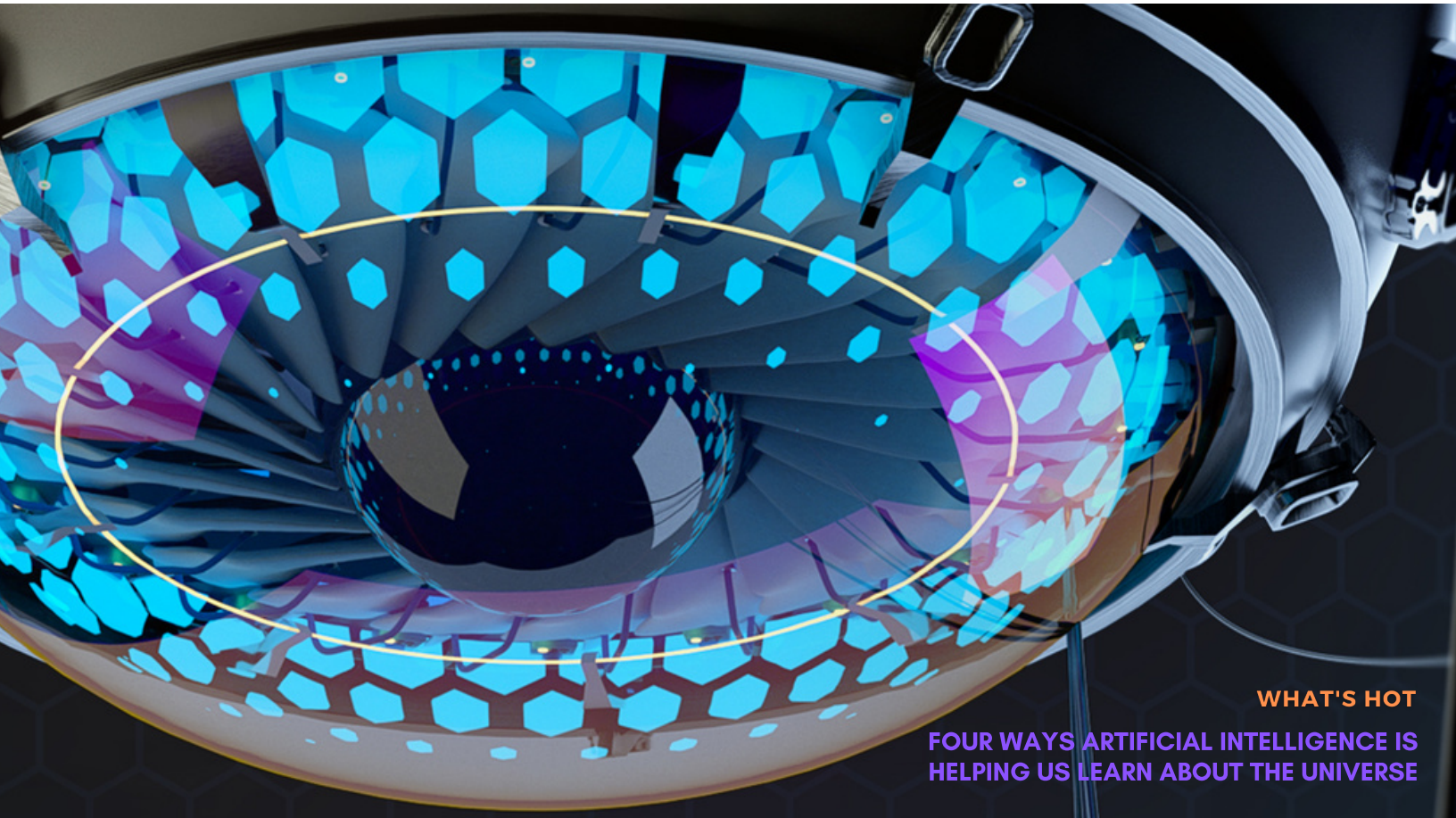

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FOUR WAYS ARTIFICIAL INTELLIGENCE IS HELPING US LEARN ABOUT THE UNIVERSE

Astronomy is all about data. The universe is getting bigger and so too is the amount of information we have about it. But some of the biggest challenges of the next generation of astronomy lie in just how we're going to study all the data we're collecting. To take on these challenges, astronomers are turning to machine learning and artificial intelligence (AI) to build new tools to rapidly search for the next big breakthroughs. Here are four ways AI is helping astronomers.

1. Planet Hunting

There are a few ways to find a planet, but the most successful has been by studying transits. When an exoplanet passes in front of its parent star, it blocks some of the light we can see. By observing many orbits of an exoplanet, astronomers build a picture of the dips in the light, which they can use to identify the planet's properties – such as its mass, size and distance from its star. Nasa's Kepler space telescope employed this technique to great success by watching thousands of stars at once, keeping an eye out for the telltale dips caused by planets.

A drawing of a planet passing in front of its star. When planets go in front of their stars, we see the drop in light. Humans are pretty good at seeing these dips, but it's a skill that takes time to develop. With more missions devoted to finding new exoplanets, such as Nasa's (Transiting Exoplanet Survey Satellite), humans just can't keep up. This is where AI comes in. Time-series analysis techniques – which analyse data as a sequential sequence with time – have been combined with a type of AI to successfully identify the signals of exoplanets with up to 96% accuracy.

2. Gravitational Waves

Time-series models aren't just great for finding exoplanets, they are also perfect for finding the signals of the most catastrophic events in the universe – mergers between black holes and neutron stars. When these incredibly dense bodies fall inwards, they send out ripples in space-time that can be detected by measuring faint signals here on Earth. Gravitational wave detector collaborations Ligo and Virgo have identified the signals of dozens of these events, all with the help of machine learning. By training models on simulated data of black hole mergers, the teams at Ligo and Virgo can identify potential events within moments of them happening and send out alerts to astronomers around the world to turn their telescopes in the right direction.

3. The Changing Sky

When the Vera Rubin Observatory, currently being built in Chile, comes online, it will survey the entire night sky every night – collecting over 80 terabytes of images in one go – to see how the stars and galaxies in the universe vary with time. One terabyte is 8,000,000,000,000 bits.

Over the course of the planned operations, the Legacy Survey of Space and Time being undertaken by Rubin will collect and process hundreds of petabytes of data. To put it in context, 100 petabytes is about the space it takes to store every photo on Facebook, or about 700 years of full high-definition video. You won't be able to just log onto the servers and download that data, and even if you did, you wouldn't be able to find what you're looking for. Machine learning techniques will be used to search these next-generation surveys and highlight the important data. For example, one algorithm might be searching the images for rare events such as supernovae – dramatic explosions at the end of a star's life – and another might be on the lookout for quasars. By training computers to recognise the signals of particular astronomical phenomena, the team will be able to get the right data to the right people.

4. Gravitational Lenses

As we collect more and more data on the universe, we sometimes even have to curate and throw away data that isn't useful. So how can we find the rarest objects in these swathes of data? One celestial phenomenon that excites many astronomers is strong gravitational lenses. This is what happens when two galaxies line up along our line of sight and the closest galaxy's gravity acts as a lens and magnifies the more distant object, creating rings, crosses and double images. An image of a bright galaxy with a blue ring around it. The blue ring is light from a more distant galaxy, distorted by the red galaxy at the centre. Finding these lenses is like finding a needle in a haystack – a haystack the size of the observable universe. It's a search that's only going to get harder as we collect more and more images of galaxies. In 2018, astronomers from around the world took part in the Strong Gravitational Lens Finding Challenge where they competed to see who could make the best algorithm for finding these lenses automatically. The winner of this challenge used a model called a convolutional neural network, which learns to break down images using different filters until it can classify them as containing a lens or not. Surprisingly, these models were even better than people, finding subtle differences in the images that we humans have trouble noticing. Over the next decade, using new instruments like the Vera Rubin Observatory, astronomers will collect petabytes of data, that's thousands of terabytes. As we peer deeper into the universe, astronomers' research will increasingly rely on machine-learning techniques.

Source: The Conversation

EU PROPOSAL PROMISES TO MAKE AI ACCOUNTABLE AND ETHICAL. (AI ETHICIST)

Often, I conduct master classes on AI ethics for different audiences such as managers, data scientists, M.B.A. students, and computer science faculty members. Before each of these sessions, I reach out to AI practitioners in the industry who are building AI and machine learning solutions to get a sense of the adoption of responsible AI principles in their organizations. During the last few years, I've seen a pattern emerge. The good news is that there is greater awareness among practitioners of biases encoded in AI systems, their potential harms, and their unintended consequences. But the bad news is that, barring a handful of exceptions, very few organizations are making conscious efforts to incorporate responsible AI practices into how they build machine learning systems.

Data scientists and machine learning engineers primarily worry about the technical accuracy and stability of their prediction metrics, but they seem unaware of or unable to assess the potential harmful effects of their AI applications when they are let loose in the real world. I also notice a clear exception. In industries and usage scenarios in which there is existing regulation that must be complied with, such an assessment is done without fail and is part and parcel of the workflow of creating and releasing new applications. An example is loan applications in which existing regulations prevent discrimination based on certain attributes of the users. Note that these regulations are not specific to AI systems.

Similar to other industries, the technology industry does not like government regulation. So far, the AI industry has been trying to keep regulators at bay by saying that self-regulation is a better approach. That's why you see the proliferation of corporate statements that espouse AI ethics principles and vow to make AI more transparent, trustworthy, fair, accountable, secure, reliable, etc. In general, I am uncomfortable with excessive government regulation, but my experience of the AI ecosystem makes me wonder if government regulations are what will usher in much-needed oversight and reduce bias in our AI systems.

THE EU PROPOSAL

That's the lens through which I approach the European Commission's proposal regarding the European Union's (EU) AI regulation. The following is a high-level summary of the proposal.

Based on how they are used, AI applications are graded as unacceptable, high, or low level of risk:

- If the use of AI violates the fundamental rights of users/ citizens, it falls into the unacceptable category and will be banned. Social credit scoring systems or systems that manipulate human behavior fall into this category.
- Next, high-risk usage areas such as critical infrastructure, education, product safety, and hiring are identified, and such AI systems are subject to risk assessment by a third party before they are released into the market. In addition, the regulation requires that there be human oversight of these systems, audit trails, and detailed system documentation.
- Low-risk AI systems (e.g., those used in video games and chatbots) will have transparency requirements--for example, letting users know that they are interacting with a bot.

So far, the AI industry has been trying to keep regulators at bay by saying that self-regulation is a better approach. There will be implementation difficulties, but this view of light-touch regulation for low-stakes use cases and stricter requirements for high-stakes use cases is a pragmatic approach. A sandbox to experiment with new AI applications without letting them loose on the world is also envisaged. This is how the EU regulators want to balance the tension of innovation versus risk management.

NEXT STEPS

The regulation is currently only a draft proposal, and the EU member states must ratify the proposal before it becomes a law. The regulation applies to all systems used by EU residents, and it has some teeth: Noncompliance can attract fines of up to 6% of a company's global sales.

I expect some changes and additional details as the proposal goes through the adoption process, but once it becomes a law, it will have a profound impact on the way AI systems are built, marketed, deployed, and monitored post-deployment. The EU regulation has the potential to be a game changer for the AI ethics discipline as many of the principles become mandatory, not just nice-to-haves. Of course, I do not think that regulation is a silver bullet. When regulation meets the real world, there will be unintended consequences, second-order effects, new norms, and more to deal with.

- This article was written by Kashyap Kompella, the CEO of rpa2ai Research, a global AI industry analyst firm, and a contributing analyst at Real Story Group.

Source: Information Today

ASENSEI INTRODUCES ASENSEI.AI, A DEVELOPER PLATFORM TO ADD CONNECTED COACHING(TM) TO ANY SPORT OR FITNESS PRODUCT

asensei, the company offering the easiest way to add technique coaching and skill-based learning to sport and fitness products, today announced the launch of asensei.ai--an API platform that allows developers of Connected Fitness products and apps to add motion capture and real-time Connected Coaching(TM) to their products with just a few lines of code. To accelerate time to market, asensei has already been trained to understand and teach everything from rowing, yoga, pilates, bodyweight exercises, mobility exercises, strength training and TRX.

The asensei.ai platform is designed for Connected Fitness and digital fitness apps, as well as apparel and equipment providers, or gyms and studios who recognize the importance of a companion digital strategy alongside physical goods and services. The asensei.ai platform is a hosted service with usage based pricing.

As more and more people practice sport and fitness at home, they are missing the benefit of an expert trainer watching, adjusting and correcting practice. Clearly, the need for Connected Coaching(TM) has never been greater. Businesses often lack the resources and multi-disciplinary expertise required to turn a canned video workout into a highly immersive personal training session. asensei.ai changes that through a collection of turn-key solutions that allow brands to offer the best of both worlds -- inspirational and motivational workout content that is personalized with real-time coaching and instruction for every level.

"We want to make it as easy as possible to deliver the interactive coaching experiences consumers want and need," says Bill Burgar, asensei Chief Technology Officer. "From learning a skill for the first time, to personal training while practicing, we believe coaching is the missing ingredient in Connected Fitness, and we're now offering it as a set of cross-platform APIs."

Source: PR Newswire

Lenovo reinforces its commitment to accountable and gender fair artificial intelligence (AI) practices by joining the 'Women and AI' Charter from Cercle InterElles, a French-based meta-network of 16 companies across scientific and technological industries.

Recognizing the potential risk for bias that exists within machine learning, the pact aims to establish a set of governing principles that promote inclusion across AI development and the teams that create it.

Co-signed by representatives from Lenovo France and global leaders across AI, Diversity and Inclusion, and Cloud and Software teams, the commitment obliges organizations to evaluate, identify, and implement best practices and standards regarding AI governance, design compliance, data gathering, algorithm ethics, diversity of teams, and other awareness and accountability measures.

"The signature of this Charter by Lenovo is a strong illustration of our long-standing global commitment to diversity and inclusion and demonstrates how a locally-based initiative can become a global commitment, to be fully integrated into our policies and the very heart of our company," says Eric Lallier, CEO of Lenovo France. "The development of a gender-neutral and inclusive AI, more generally, is a crucial issue for the future. Businesses have great responsibilities in this area and therefore have a major role to play."

Lenovo's participation, driven by Cercle InterElles members Marine Rabeyrin, Business Development Manager for Key Accounts, Lenovo EMEA, and Christine Dehnel, Business Team Transformation Manager, Lenovo Global, will center on defining governance for gender equity in its AI practices, connecting stakeholders, and aligning across the global community.

Source: 3BL Media

LENOVO JOINS COMMITMENT TO RESPONSIBLE AND GENDER-EQUITABLE ARTIFICIAL INTELLIGENCE WITH CERCLE INTERELLES

The education sector is expected to have a negative impact due to the spread of the COVID-19 pandemic. However, the market is expected to have a positive impact with the increasing spread of the virus. The imposition of lockdowns increased the demand for e-learning. This increased the scope for AI in the education sector.

The growing emphasis on customized learning paths is identified as one of the major factors driving the market growth. Institutions are increasing their reliance on machine learning technologies to collect student data, gain actionable insights into their performance, and make informed decisions. With the help of machine learning algorithms, teachers can assess the areas where students might be facing problems and provide them customized learning materials. This growing trend is encouraging many vendors in the market to offer advanced AI-enabled software that can help teachers to provide their custom learning content. All these factors are positively influencing the growth of the global AI market in the education sector.

Artificial Intelligence Market in the Education Sector: Significant scope of AI applications

The rapid increase in classroom sizes has reduced the interaction between students and teachers. However, with the help of AI, relationships between learners and teachers can be improved in traditional educational processes. Vendors are offering solutions that allow virtual programs or virtual human beings to conduct classes in schools and universities. For instance, Brainly App offers solutions that allow users to ask homework questions and receive automatic answers that are verified by fellow students.

ARTIFICIAL INTELLIGENCE MARKET IN EDUCATION SECTOR | POST COVID-19 ANALYSIS

Similarly, other vendors in the market are introducing personalized animated characters that interact with students and act as tutoring companions. Such developments are expected to fuel the growth of the global artificial intelligence market in the education sector during the forecast period.

"The increased emphasis on chatbots and the rising demand for ITS will further boost market growth during the forecast period", says a senior analyst at Technavio.

The North American region led the artificial intelligence market in the education sector in 2021, followed by Europe, APAC, South America, and MEA respectively. During the forecast period, North America is expected to register the highest incremental growth due to factors such as technological advances and the continuous implementation of technology in the education sector in the region.

Source: PR Newswire

BRIVO'S AI-POWERED SNAPSHOT LAUNCHED TO PROVIDE RAPID INSIGHTS INTO FUSION OF ACCESS AND VIDEO DATA

Brivo, the global leader in cloud-based access control and smart building technologies, today launched Brivo Snapshota high-accuracy video analytics and forensic tool that uses machine learning to deliver advanced facial and person detection using a fusion of access control and video data streams.

Brivo Snapshot speeds up the process of finding relevant images around access events by as much as 20X over conventional search technology in stand-alone video management systems. By detecting the presence of faces and other human characteristics, Snapshot creates a permanent photo album that records the complete event-related visual setting. Customers no longer have to view entire video clips to research an event.

Snapshot provides them with a single, visual history of all the people in view of an entry point for easy reference. Because the video analysis is performed within the Brivo cloud, Snapshot doesnt have the compute or storage limitations typical of on-premise video management systems and is compatible with any video stream.

The inspiration for the feature was customers need for a simpler way to quickly obtain corroborating visual intelligence around access events, said Steve Van Till, CEO and founder of Brivo. As workplace usage patterns continue to change post-pandemic, we expect that employers and property managers will find these easily accessible visual records valuable for optimizing space utilization and the flow of people in general.

Behind the scenes, Brivo Snapshot uses machine learning technology to detect the presence of people within an access-indexed video stream. After finding the video frame with the highest facial detection score around a specific event, it extracts and stores this single image along with the underlying video clip. This means that every situation of potential interest around entry points is already pre-analyzed, pre-indexed and immediately available when someone wants to see what happened.

Source: Ma'an News Agency

SEOUL ADOPTS AI FOR SUICIDE PREVENTION ON HAN BRIDGE: UNI BOFFINS TRAIN MACHINE LEARNING MODEL ON RESCUE TEAMS' DATA

System trains itself to spot suicidal behavior and alert a controller

South Korea's capital and largest metropolis has turned to AI for suicide detection and prevention on popular bridges along the prominent Han River, according to the system's developers at the Seoul Institute of Technology (SIT).

There are 27 bridges that cross the Han River, also known as the Hangang river, in the Seoul National Capital Area (divided into Seoul, Gyeonggi, Incheon). Many of the city's pedestrians walk on them every day. Unfortunately, only counting suicide attempts from Seoul bridges, researchers said there are an average of 486 people trying to end their lives in the Han's waters every year. This translates to a large amount of required rescue resources, which thankfully are quite successful, at 96 per cent. A more efficient spread of resources, however, would mean being able to potentially save more lives.

With the current setup, which according to an SIT document went live in February, the bridges are monitored by an array of CCTV screens at a control centre, with each small box depicting a different part of the bridge. An employee watches these screens for unusual behaviour that may require interference or a rescue worker.

The AI collaboration between SIT and Seoul Fire and Disaster Headquarters is aimed at helping the technicians to better shift their focus by using machine learning to alert them to the scenes most likely to need intervention.

"The objective is to establish an effective control system and reduce the casualties caused by falling accidents," according to the SIT document, when translated to English via automated language tools.

The collaboration between the uni boffins and the workers from Seoul Fire and Disaster HQ has been providing data since 2020, detecting and predicting situations by learning behavioural patterns of those needing assistance and showing those images on the controller's monitor. These patterns could consist of actions like pulling on cables as detected by sensors. The hope is that ultimately the system learns "learning the [behaviour] pattern of the attempter" and rescuers have more time to act before the individual takes action. The system continually learns, analyzing structured and unstructured data such as report history and text of call details, as well as sensor data, to reduce false alarms and improve accuracy. The characteristics of the bridge and changes of weather, such as light and wind, are also accounted for. The engineers said the system minimises the monitoring gap, allowing quicker and more accurate response to incidents, thus saving lives. Currently the rescue rate is around 96 per cent.

Korea has the highest suicide rate of any country in the OECD at 23 per 100,000 people between 2016 and 2018. COVID hardships have since increased these numbers and the number of Han River bridge rescue dispatches, reports Reuters. ®

Source: TheRegister.com

NICE PUBLISHES ETHICAL FRAMEWORK FOR APPLYING AI TO CUSTOMER SERVICE

Nice, a provider of a robotic process automation (RPA) platform infused with machine learning algorithms employed in call centers, today published a Robo Ethical Framework for employing AI to better serve customers.

The goal is to provide some direction on how best to employ robots alongside humans in a call center, rather than focusing on how to replace humans, said Oded Karev, vice president of RPA for Nice.

Implementing robotics ethically

In general, most organizations are not closing call centers and laying off workers because they deployed an RPA platform. Instead, as more rote tasks become automated, the call center staff is engaging more deeply with customers in a way that increases overall satisfaction. As a result, customers are consuming more services that are now sold to them via a customer service representative.

There are, however, vertical industry segments where customers would rather not engage with anyone at all. They simply want a robot to automate a task, such as registering a product on their behalf. In either scenario, the relationship between the end customers is fundamentally evolving, thanks in part to the rise of RPA and AI, noted Karev.

In some cases, organizations overestimate the ability of robots to handle customer interactions in place of humans, added Karev. "Robots are not as smart as some of us think they are," he cautioned.

Source: VentureBeat.com

ARTIFICIAL INTELLIGENCE: FAD OR BUSINESS STAPLE?

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According to techjury.net, 77 per cent of the world's population uses artificial intelligence (AI) but only 33 per cent are actually aware they're doing so. The smartphone that's sitting beside you or perhaps in your hand, the videogames your kids are playing in the next room, the Spotify station you've got on in the background, and the list goes on – all utilise AI while you go about your activities.

Business administration operations, such as smart email categorisation and automated customer support, already routinely use it. But even though so many people worldwide, including you, are using AI in their day-to-day operations, many are still sceptical about how these technologies can and should be used more intentionally in business.

WHAT IS AI AND HOW DOES IT CONTRIBUTE TO VISIBILITY?

At its core, AI is just a technology's ability to use an algorithm (or set of instructions) to process data, optimise the outcomes of those algorithms based on the data it collects, and therefore display a sense of "intelligence". It can learn from past processes and improve its algorithm to become the best digital co-worker your team could ask for, working along in the background to help your business. And though data is used to increase automation across your processes, it's also used to improve decision making

by providing insights, smart recommendations and helping your organisation do the right thing. One of the biggest realisations we're taking away from the pandemic is that financial visibility is key to ensuring business continuity. Understanding your cash flow and supply chain and finding ways to stay agile through disruption is vital to the success of growth of an organisation. AI informs automation, and automation then drives the data needed to inform real-time insights into cashflow. This sort of analytical visibility helps keep suppliers operational, cash flowing and business in action. Sami Peltonen VP, Product Management, Basware

HOW CAN AI BOOST E-INVOICING AND PROCUREMENT?

You can see that top businesses are taking steps towards implementing AI, you can see some of the values realised after implementation, and you can rest easy knowing that your workforce won't be replaced with blinking, square-headed robots with claw-arms. AI works entirely as servant, not master. And since it runs in the background of your operations, you'll hardly know it's there – much like you don't consider what's keeping a plane in the air when you're on a flight.

Let's take a look at how AI can work in action in your procure-to-pay (P2P) process. For starters, if you're a multinational firm with a history of mergers and acquisitions, your financial tools may be varied and disparate. At Basware, we build a layer on top of those existing tools to harmonise your entire financial process and then integrate it with the existing landscape.

These modern technologies will enable AP and procurement departments to achieve efficiencies such as:

• Automating the conversion of machine-readable PDFs to electronic invoices (e-invoices) with close to 100 per cent accuracy
• Saving time and energy across all P2P functions and redirect energy to more strategic initiatives

• Improving cashflows and generating savings through early payment discounts and DPO optimisation with faster invoice processing times

• Drastically reducing manual handling of business documents in both procurement and AP

• Identifying increased savings potential by gaining visibility over 100 per cent of your organisational spend

• Achieving high-performing supply chains by analysing supplier performance and quality

• Considerably increasing both your data quality and accuracy

AI strategy is here – for the short-, mid-, and long-term. According to Forbes, "90 per cent of leading businesses already have ongoing investment in AI technologies. More than half of businesses that have implemented some manner of AI-driven technology report experiencing greater productivity." And Forbes isn't alone in these findings. NewVantage research from 2020 shows that 91.5 per cent of top businesses surveyed report having an ongoing investment in AI. And 54 per cent of business executives in a PWC survey say their adoption of AI within the workplace has led to significant boosts in productivity.

For example, our own personal experience paired with research from multiple sources shows ways businesses are using AI to improve their organisations:

• 36 per cent of executives say their primary goal for AI is to optimise internal business operations (Harvard Business Review)

• 36 per cent of executives say their primary goal for AI is to free up workers to be more creative by automating tasks (Harvard Business Review)

• 79 per cent of executives worldwide say artificial intelligence will make their job easier and more efficient (The Economist)

• 72 per cent of business decision-makers say AI can enable humans to concentrate on more meaningful work (PwC)

• AI can warn of late payments to increase early pay discount capture and increase overall savings

• AI can process millions of financial transactions to analyse and provide insights

"According to Forbes, "90 per cent of leading businesses already have ongoing investment in AI technologies. More than half of businesses that have implemented some manner of AI-driven technology report experiencing greater productivity."

This all shows that AI is here to stay. For the short-and mid-term, AI will dominate the finance landscape. In the long run, it will combine all external data along with the internal data to analyse and drive further efficiencies.

Source: Independent Online

2021/22 | 1st Dec 2021

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AI World Summit 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. Last year's AIWS 2020/21 event attracted more than 20,000 registrations from 50+ countries.

For more information, please visit:
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AI FOR IMPACT

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jointly own the IP in accordance to a pre-agreed ratio where MyFinB funds the full capex while you cover the costs of the prototype

We commercialise and launch them to the market based on the pre-agreed specifications and after the full system development is completed by MyFinB. Roles and responsibilities would have been detailed out, and a long-term partnership is forged.

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MyFinB is an award-winning, high growth AI start-up with core operations in KL/SG and serving more than 30 markets globally.

We specialise in Artificial Intelligence and Natural Language Generation & Understanding (NLGU). Our AI-powered solutions translates structured data (financial statements, bank statements, incorporation info) and unstructured data (publications, social media, journals and video images) into decisioning reports.

MyFinB uses its proprietary NLGU and Cognitive Analytics capabilities to serve 10 core segments: Financial institutions, Enterprises / SMEs, Accounting and Auditing Firms / Consultants, Government Agencies, Credit bureaus, Stock Exchanges, Insurers, Trade Associations and Business chambers, Universities and Investment Promotion Agencies.

We manage a "digital factory" model where we help organisations build in-house capabilities via the Digital AI Labs (DIAL) programme. DIAL is a scheme of arrangement that helps organisations build and own A.I. expert systems – to solve a specific issue with a commercial goal in mind.

MyFinB's DIAL Programme offers a unique AI-as-a-Service (AIaaS) platform to overcome the barriers of adopting AI Systems. DIAL targets people without the knowledge of coding and programming to build their own expert systems for their organisations.

"NOW EVERYONE CAN BUILD AND OWN AI WITHOUT CODING."

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