GALAXY
Integrating Technology | Driving Growth

TECH TALK

Issue 156 June 2025

Pioneering Tech Leadership with a Legacy of Excellence.

AIM

Galaxy Office Automation Pvt. Ltd.

Galaxy & IBM are hosting an exclusive **Digital Transformation Networking Session** on **6th June 2025.**

This event will focus on the future of **modernizing IT infrastructure** with secure, efficient, and AI-powered solutions. Discover how IBM is redefining enterprise resilience with the **IBM Storage Family** and **IBM LinuxONE,** delivering cutting-edge technology, cybersecurity, and trusted AI capabilities.

Join us to explore innovative infrastructure strategies and connect with industry thought leaders.

Stay tuned for more updates!

Foreword

Dear Readers,

As we move deeper into 2025, the rapid pace of technological developments continues to reshape industries and societies. At Galaxy, it is our firm belief that sustainability and technology must go hand in hand—and this year, we are committed to integrating environmental responsibility into our solutions and services.

The conversation around Green IT and sustainable data centres is no longer just a trend; it has become a critical imperative. With data centre energy consumption rising exponentially due to a higher percentage of GPUs, adopting energy-efficient hardware, intelligent cooling systems, and AI-driven workload optimization can significantly reduce carbon footprints while improving performance and cost efficiency.

At the same time, the rise of edge computing is transforming how data is processed—bringing computation closer to the source to reduce latency and bandwidth usage, thereby contributing to more sustainable infrastructure.

At Galaxy, we are proud to announce initiatives that align with this vision. Our teams are actively working on developing energy-conscious infrastructure monitoring tools that use AI and IoT sensors to optimize power usage in real time. Additionally, we are partnering with global vendors to promote hardware recycling and circular economy principles in IT asset management.

Sustainability is not just a responsibility—it's an opportunity for innovation and leadership in the technology space. We invite our clients and partners to join us in embracing these green technologies that not only protect the planet but also unlock new efficiencies and business value.

Thank you for your continued trust in Galaxy.
Together, let's build a smarter, greener future.

Happy reading!

Anoop Pai Dhungat
Chairman & Managing Director

Future is now!

The Future of Healthcare Is Here: China Launches AI-Doctor-Driven Hospital

Artificial intelligence is rapidly transforming healthcare in China, where researchers at Tsinghua University's Institute for AI Industry Research (AIR) have launched a groundbreaking project: the Agent Hospital. This AI-powered facility features 42 virtual doctors spread across 21 medical departments, all driven by intelligent agents built on large language models (LLMs).

A Fully Simulated Healthcare Ecosystem

At the core of Agent Hospital lies an end-to-end simulation of the entire patient journey. These AI doctors and nurses autonomously manage pre-hospital, in-hospital, and post-hospital stages, covering everything from illness onset and triage to diagnosis, treatment, rehabilitation, and follow-up. The LLM-based system enables natural, autonomous communication between AI-driven medical staff and virtual patients.

High-Speed, High-Volume Diagnoses

As reported by indy100, the virtual doctors demonstrate a remarkable diagnostic capacity. Within just a few days, they diagnosed over 10,000 virtual patients—a task that would take a human doctor approximately two years, assuming an average of 100 patients per week. On the MedQA dataset, which focuses on respiratory diseases, the AI doctors achieved an impressive accuracy rate of 93.06%.

Learning, Evolving, and Improving

These AI agents don't just follow rules—they learn from experience. By analysing vast volumes of medical literature and real-time case data, they continually refine their decision-making processes. The goal, according to researchers, is to develop AI doctors who can mimic clinical reasoning and adapt over time, just like their human counterparts.

Collaboration with Human Experts is Crucial

Despite the promise, researchers are proceeding cautiously. As Liu Yan, the project's lead researcher, explained to Global Times, the team must ensure compliance with national medical regulations. They are exploring optimal ways for AI and human doctors to collaborate, emphasizing technological maturity and ethical standards before deploying the system in real-world clinical settings.

Looking Ahead: Real-World Application in Sight

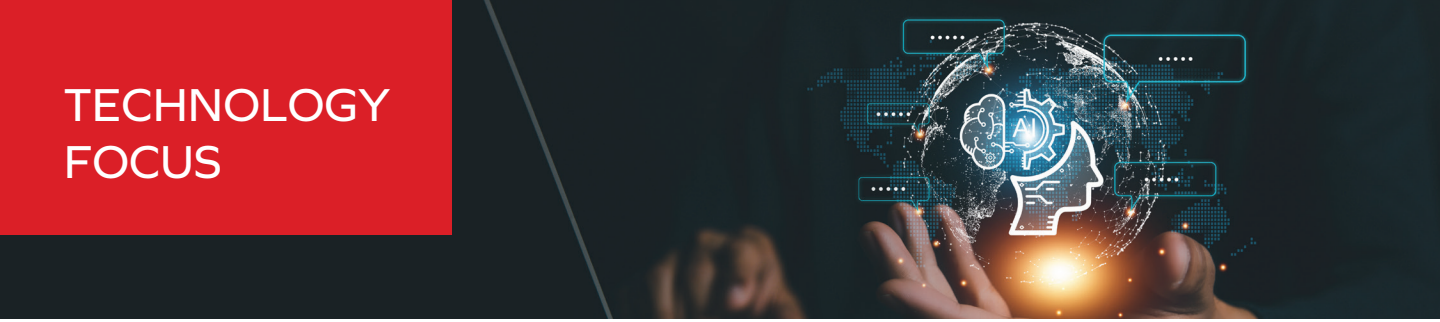
As the technology advances, the Tsinghua team is working to expand the range of diseases the AI doctors can manage. Liu Yan believes the system is nearly ready for practical application, potentially transforming healthcare by reducing workload, improving efficiency, and increasing access to care for millions.

A Glimpse into the Future of Medicine

With Agent Hospital, China is leading the way in reimagining patient care through AI. As this technology matures, it could redefine the roles of doctors and drastically improve healthcare delivery. It may also spark global conversations on the ethics, safety, and limitations of AI in medicine.

Read more →

TECHNOLOGY FOCUS



DevOps Automation:
The Key to Faster, Smarter Software Development

Automation is the crucial part of DevOps practices. It's a fundamental principle that permeates every stage of the software development lifecycle (SDLC), from the initial lines of code written on a developer's machine to the ongoing monitoring of deployed applications.

One of the most impactful applications of automation in DevOps lies in infrastructure provisioning and configuration management. It eliminates manual setup and configuration errors, ensuring consistency and repeatability across environments. Similarly, automating software deployments streamlines the release process, enabling frequent and reliable delivery across various platforms.

DevOps automation refers to the systematization and computerization of manual processes such as coding, testing, and traditional deployment involved in the software development cycle. In a DevOps environment, automation can be used to integrate code, test, and continuously deliver software updates more quickly than ever before.

The idea is to **promote alignment between the development and operation teams,** which in return increases the software delivery speed while providing higher reliability by reducing manual intervention. The major parts of DevOps automation include **continuous integration and delivery, Infrastructure as Code (Iac), and automated testing** - they all lead to not only faster software development but also a more responsive system.

Why is Automation Important in DevOps?

Automation is crucial in DevOps for several reasons. Three key aspects highlight its significance, as discussed.

Minimizes Duplications

In DevOps, automation reduces redundancy by making processes more consistent. Repetitive jobs like code deployment or system configuration are easily prone to errors and inconsistencies when performed manually. Automation eliminates redundant effort and forces standardization through development and operations. It not only increases efficiency but also reduces the possibility of discrepancies that could result in a manual repetition of tasks.

Provides Proper Guidelines

DevOps automation provides clear and defined prescriptions for each stage of the software development life cycle. By using automatic tools like Infrastructure as Code (IaC) and scripting, teams can standardize workflows. These guidelines provide a map for designing, implementing, and operating infrastructure. They reduce ambiguity as well as increase cooperation between subjects that otherwise would have less mutual understanding. Teams can work together more effectively under proper instructions, which results in improved communication and better awareness of the system development and operating status.

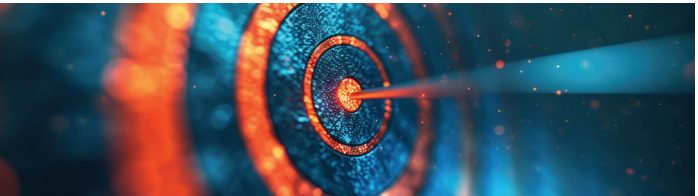
Reduces Risks

Risk reduction within the DevOps pipeline is dependent on automation. Manual processes are error-prone, and inconsistencies can cause deployment failures, which lead to operational problems. Testing, continuous integration, and deployment pipelines find problems early in the development cycle. Repetitive tasks are automated to minimize the risk of errors, improve software releases and enhance system stability through DevOps automation.

What are the Benefits of DevOps Automation?

DevOps automation offers many benefits that greatly improve the software development and delivery process. Here are some of the main benefits:

- **Enhanced Productivity:** DevOps automation quickens the development lifecycle by automating time-eating and repetitive duties, which allows teams to focus on new product development and shipping more quickly.
- **Increased Stability:** Automation ensures consistent and standardized processes across the development cycle, testing phase, and deployment environments. This reduces manual errors and promotes reliable and predictable workflows.
- **Faster Time to Market:** With DevOps automating code integration, testing, and deployment, the time to release new features and updates is shorter. This agility in the development process means quick release of software products into the market.
- **Improved Communication:** Automation promoted by DevOps improves communication between development and operations teams. On the contrary, it makes it possible for both teams to cooperate and divide responsibilities so that each team better understands what the other side needs.
- **Enhanced Quality: This** is contained within the concept of DevOps automation. If testing is carried out by automated procedures, then all changes to the code can be thoroughly and uniformly tested, which in turn helps produce better-quality code. In DevOps automation, problems are detected early in the development cycle, before further damaging effects could occur.



Galaxy, in partnership with Red Hat, empowers our customers with the Ansible Automation Platform to transform their DevOps initiatives. This enables them to automate critical processes like infrastructure provisioning and application deployment, significantly accelerating their software delivery cycles, enhancing consistency, and minimizing costly manual errors. Ultimately, this powerful solution helps our customers achieve faster time to market with more reliable and higher-quality applications. To talk to our experts, email us at marketing@goapl.com.

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SPECIAL FOCUS

Cisco Network Detection and Response (NDR): Enhancing Threat Visibility and Response

Cisco NDR (Network Detection and Response) is a cybersecurity solution designed to detect, investigate, and respond to threats across an organization's network using behavioural analytics, machine learning, and threat intelligence. Cisco's NDR capabilities are primarily delivered through **Cisco Secure Network Analytics,** formerly known as **Stealthwatch**.

Core Features of Cisco NDR

1. **Behavioural Analysis & Anomaly Detection**
   - Cisco NDR continuously monitors network traffic and applies advanced analytics to identify unusual patterns that may indicate malicious activity.
   - It establishes baselines for normal behaviour and highlights deviations, helping detect threats like lateral movement, command and control (C2) traffic, and data exfiltration.
2. **Encrypted Traffic Analytics (ETA)**
   - Cisco's proprietary technology enables visibility into encrypted traffic without decryption, using telemetry and machine learning to detect hidden threats.
   - This is essential in modern networks where most traffic is encrypted, reducing blind spots.
3. **Integration with Threat Intelligence**
   - Leverages Cisco Talos—one of the largest commercial threat intelligence teams—to enhance detection capabilities with up-to-date indicators of compromise (IOCs).

4. **Automatic Threat Detection**
    - Uses AI and machine learning to detect advanced threats like zero-day attacks, insider threats, and malware without reliance on signatures.
5. **Scalable Network Visibility**
    - Provides comprehensive visibility across on-premises, hybrid, and cloud environments by collecting telemetry from routers, switches, firewalls, and cloud infrastructure.
    - Works well in large enterprise environments due to its scalability and use of existing network infrastructure for telemetry.
6. **Response Automation & Forensics**
    - Integrates with Cisco SecureX and third-party security tools to automate incident response.
    - Offers detailed forensic data for post-incident analysis and compliance reporting.

Benefits of Cisco NDR

Early Threat Detection

Detects threats before they cause significant harm by identifying subtle indicators of compromise.

Reduced Dwell Time

Speeds up detection and response time, reducing the window of opportunity for attackers.

Encrypted Traffic Visibility

Enables security teams to maintain visibility even when data is encrypted.

Operational Efficiency

Automates investigation processes and reduces alert fatigue with high-fidelity alerts.

Seamless Integration

Works with existing Cisco infrastructure and integrates into broader security ecosystems.

Cisco NDR and Galaxy provides an advanced, scalable solution for detecting and responding to sophisticated network threats. With features like Encrypted Traffic Analytics, behavioural modelling, and strong integrations, it equips security teams with the tools they need to stay ahead of evolving threats across modern enterprise environments. To talk to our experts, email us at marketing@goapl.com

TECH NEWS

Elon Musk Says Long-Awaited Test of Tesla Robotaxi on Track to Launch by the End of June

Tesla is set to begin a test of its long-promised robotaxi service on schedule in Austin, Texas, by the end of June, Chief Executive Elon Musk said on Tuesday, even as the company faces questions from a US regulator on safety.

The electric vehicle maker will roll out about 10 self-driving cars in some parts of the city, Musk said in an interview with CNBC, adding that robotaxi deployment would scale up to about a thousand within a few months.

"We are actually going to deploy not to the entire Austin region but only to the parts that are the safest. So, we will geofence it," Musk said.

A successful trial will be crucial for Tesla, as Musk has pivoted the company's focus away from building a new, cheaper EV platform amid weakening demand to launching the robotaxi service and its Optimus humanoid robots. Much of the company's valuation hangs on that bet.

"The only things that matter in the long term are autonomy and Optimus," Musk told CNBC.

But autonomous vehicle technology has been hard to commercialize, with tight regulations and heavy investments forcing many companies to shut shop. The companies still in the race, including Alphabet's Waymo, have faced increased scrutiny.

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TECH NEWS

Nvidia to Launch Cheaper Blackwell AI Chip for China After US Export Curbs

Nvidia will launch a new artificial intelligence chipset for China at a significantly lower price than its recently restricted H20 model and plans to start mass production as early as June, sources familiar with the matter said.

The GPU, or graphics processing unit, will be part of Nvidia's latest generation Blackwell-architecture AI processors and is expected to be priced between $6,500 and $8,000, well below the $10,000-$12,000 the H20 sold for, according to two of the sources.

The lower price reflects its weaker specifications and simpler manufacturing requirements.

It will be based on Nvidia's RTX Pro 6000D, a server-class graphics processor, and will use conventional GDDR7 memory instead of more advanced high-bandwidth memory, the two sources said.

They added it would not use Taiwan Semiconductor Manufacturing Co.'s advanced Chip-on-Wafer-on-Substrate (CoWoS) packaging technology.

The new chip's price, specifications, and production timing have not previously been reported.

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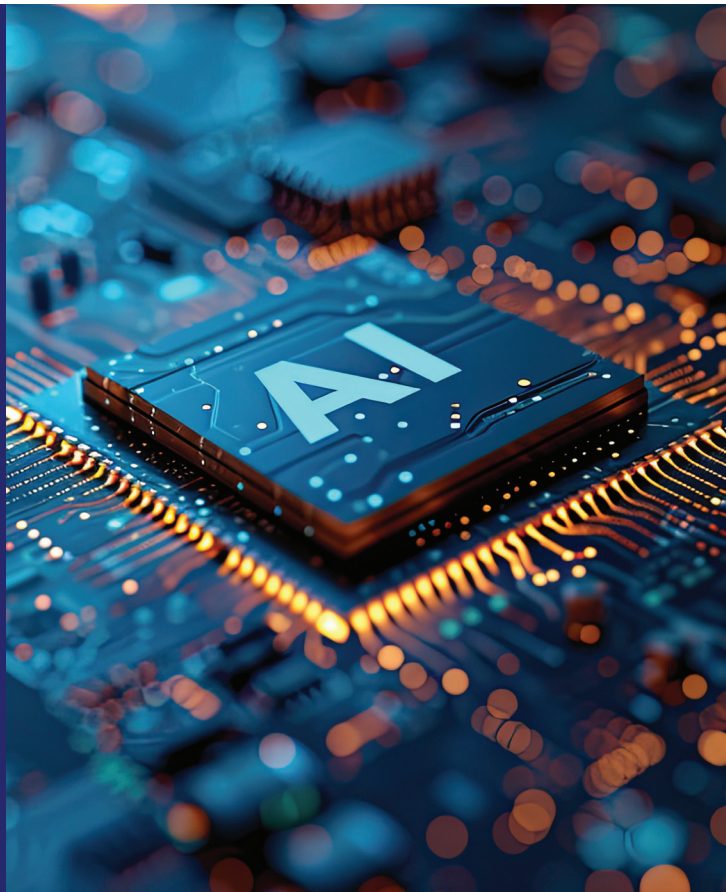

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