GALAXY
Integrating Technology | Driving Growth

TECH TALK

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Pioneering Tech Leadership with a Legacy of Excellence.

AIM

Galaxy Office Automation Pvt. Ltd.

Introducing Our New NOC Facility in Turbhe

We're excited to announce the launch of our new **NOC & SOC** (Network and Security Operations Center) in **Turbhe**, marking a significant step forward in strengthening our service capabilities.

This state-of-the-art facility is designed to enhance our **24/7 monitoring, faster incident response, and proactive support**, ensuring higher reliability and performance for our customers. With improved infrastructure, advanced IT monitoring using automation tools, and a dedicated team of experts, the Turbhe NOC and SOC will play a key role in delivering seamless and secure IT operations.

This expansion reflects our continued commitment to **operational excellence, customer satisfaction, and future-ready service delivery.**

Foreword

Dear Readers,

In our January predictions, we highlighted AI-native modular micro-data centres as a transformative technology for 2026. This month, let's explore why this shift from monolithic data centre builds to modular, compact, pre-integrated platforms designed specifically for high-performance, secure, and sovereign AI is reshaping how enterprises deploy AI capabilities.

The industry is transitioning from the AI training boom of 2025 to what analysts call the "inference era" of 2026. Inference workloads now account for two-thirds of all AI compute, fundamentally changing infrastructure requirements. Unlike training, which can occur in centralized locations, inference must be deployed close to where data is generated and decisions are made. Even a five-millisecond delay can disrupt real-time applications like autonomous systems or voice assistants.

These next-generation micro-data centres bring together high-density GPU computing, advanced cooling, embedded security, and curated AI software stacks in deployable units that can be operational in weeks. By moving compute closer to data and users, organizations can reduce latency, control costs, and meet growing regulatory expectations.

The complexity of modern AI infrastructure—spanning modular data centres, confidential computing, zero-trust networking, and hyperautomation—demands expertise few organizations possess internally. At Galaxy, we serve as your AI Factory enabler, offering end-to-end services for building, integrating, and continuously assuring complex AI systems.

Foreword

Our solutions like Auxilium and Kavach-AgentIQ leverage AI and hyperautomation to improve uptime and customer satisfaction while reducing costs. We understand both the technical intricacies of modular AI infrastructure and the business imperatives driving your transformation.

The future of AI infrastructure is modular, distributed, and intelligent. Reach out to our experts and evangelists to explore how AI-native modular micro-data centres can transform your organization.

Happy reading!

Anoop Pai Dhungat
Chairman & Managing Director

New Clone-Hybrid Rice Innovation Promises to Double Global Food Production

Researchers have developed a form of hybrid rice that can replicate itself through seeds that are clones, preserving high-yield traits generation after generation.

The breakthrough could transform global agriculture by removing the biggest barrier to hybrid rice production: the need for farmers to buy expensive new hybrid seeds every season.

As hundreds of millions of people around the world face acute food insecurity, hybrid rice has shown dramatically higher yields—nearly four times more in parts of Africa compared to traditional varieties.

If all rice farmers could plant this new hybrid variant, global rice production could potentially double, according to some industry estimates.

However, the price of hybrid seeds can be extremely high in many countries—up to 100 times more than regular rice seeds.

Additionally, the offspring of these seeds lose their hybrid vigour—superior traits gained from crossbreeding—forcing farmers to purchase new seeds every year.

A research team has developed hybrid rice capable of near-perfect clonal reproduction through apomixis, a process in which seeds develop without fertilisation.

Their new Fix8 series achieves more than 99.7% cloning efficiency, with seed-setting rates comparable to conventional hybrids, effectively creating self-replicating super rice.

This "one-line" system reduces seed production costs by up to 99%, potentially lowering prices from hundreds of yuan per kilogram to just a few yuan—comparable to regular rice seed prices.

"This was the first introduction of the apomixis trait into hybrid rice, a breakthrough from '0 to 1'," said the research team lead.

"Once commercialised, the cost of hybrid rice seeds could drop significantly, directly benefiting farmers."
Hybrid rice has been widely recognized for its higher yields, but its higher cost has been a major limitation. With this new breakthrough, hybrid rice could become more accessible and affordable for farmers worldwide.
Apomixis is considered the "holy grail" in agricultural science because it allows the superior traits of a hybrid to be fixed and passed down indefinitely through seeds.
In 2017, the team used gene editing to modify key genes involved in rice reproduction, enabling hybrid rice to bypass the typical reproductive process. These findings were published in a major scientific journal, announcing the first successful creation of clonal hybrid rice seeds.
The achievement gained worldwide attention and was celebrated as a significant milestone in agricultural science.

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TECHNOLOGY FOCUS

Cyber Resilience Explained: Protecting Your Business in a Digital-First World

Cyber resilience is a concept that brings business continuity, information systems security and organizational resilience together. It describes the ability to continue delivering intended outcomes despite experiencing challenging cyber events, such as cyberattacks, natural disasters, or economic slumps. A measured level of information security proficiency and resilience affects how well an organization can continue business operations with little to no downtime.

Modern cyberthreats present new challenges, creating an environment where traditional security measures alone are insufficient. Organizations face sophisticated adversaries who use advanced technologies and techniques to cause disruptions. Threat actors and hackers increasingly exploit human vulnerabilities and system weaknesses rather than relying on traditional automated attack methods.

According to the 2025 Cost of a Data Breach Report from IBM and the Ponemon Institute, global breach costs decreased to USD 4.44 million on average. However, US organizations faced record-high costs at USD 10.22 million per incident. Despite these costs, 49% of breached organizations plan to increase security investments.

The importance of a cyber resilience strategy

Enterprises must build effective cyber resilience through a risk-based strategy and coordinate initiatives to support it. A collaborative approach led by executives extends across the organizational ecosystem, reaching partners, supply chain participants and customers. It must proactively manage risks, threats, vulnerabilities and the effects on critical information and supporting assets,

while also strengthening overall preparedness. Successful cyber resilience also involves governance, risk management, an understanding of data ownership and incident management. Assessing these characteristics also demands experience and judgment.

Furthermore, an organization must also balance cyber risks against attainable opportunities and competitive advantages. It must consider whether cost-effective prevention is viable and whether it can achieve rapid detection and correction with a strong short-term effect on cyber resilience.

To accomplish this goal, an enterprise must find the right balance between three types of controls: preventive, detective, and corrective. These controls prevent, detect, and correct incidents that threaten an organization's cyber resilience.

The benefits of cyber resilience

A cyber resilience strategy helps organizations achieve the following benefits:

- Mitigate financial loss
- Reduce operational damage
- Gain customer trust and business
- increase competitive advantage
- Ensure business continuity

Read more →

Galaxy, as a solutions provider, enables cyber resilience through risk-based security, rapid detection and recovery, governance-driven controls and business continuity strategies that minimize downtime, protect data and sustain customer trust.

To connect with our experts, write to us at marketing@goapl.com

SPECIAL FOCUS

Bringing Order to Endpoint Chaos in Critical Infrastructure

In large power and energy enterprises, IT teams manage thousands of endpoints and servers spread across plants, substations, offices, and remote sites. Without a unified platform, everyday tasks like patching, software deployment, and asset tracking become manual, slow, and error prone. Legacy tools such as SCCM often add complexity, demand heavy infrastructure, and struggle in low-bandwidth or distributed environments—turning routine operations into a constant IT firefight.

ManageEngine Endpoint Central addresses this challenge by offering a single, lightweight, and centralized platform to manage endpoints and servers across Windows, macOS, and Linux. It streamlines patching, inventory, remote support, and security controls—helping IT teams move from reactive operations to predictable, automated control.

Key Features

Patch Management: Automates OS and third-party patching across Windows, Linux, and macOS to eliminate manual updates and security gaps.

Hardware & Software Inventory: Provides real-time, audit-ready visibility of every asset across plants, offices, and remote sites.

Software Distribution: Enables centralized, bandwidth-aware deployment of applications and updates across geographically dispersed locations including third-party applications.

Application Control: Prevents unauthorized or risky software from running in critical environments through whitelisting and blacklisting.

Remote Management: Allows IT teams to securely troubleshoot and resolve issues without traveling to remote sites in timely manner.

Vulnerability Assessment: Continuously identifies missing patches and insecure configurations from a single dashboard.

Business Benefits

Streamlined Operations: Replace multiple tools with a single, easy-to-manage platform.

Reduced Downtime: Automate updates without disrupting critical operations.

Audit Readiness: Maintain continuous visibility for compliance and governance.

Faster Resolution: Fix issues remotely, reducing MTTR and site visits.

Stronger Security: Proactively close vulnerabilities before they are exploited.

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Core Use Cases

- Multi-OS patch management for endpoints and servers across plants and datacenters.
- Centralized asset tracking for compliance, audits, and lifecycle management.
- Enterprise-wide software deployment for engineering and operational tools.
- Application control to protect mission-critical systems from unauthorized software.
- Remote IT support for substations and geographically dispersed locations.
- Continuous vulnerability assessment for proactive cyber risk reduction

Why Endpoint Central over other tools

Endpoint Central delivers **enterprise-grade capabilities with simplicity,** offering faster deployment, lower infrastructure overhead, built-in patching, remote support, inventory, and vulnerability management in a single on-prem platform—making it far more agile, cost-effective, and easier to operate than legacy solutions like SCCM or fragmented point tools.

At Galaxy, we help customers assess their environment, design the right architecture, and deploy Endpoint Central in line with their operational and security needs. We tailor patching, inventory, automation, and control policies for plants, offices, and remote sites, ensuring minimal disruption and maximum efficiency. From pilot rollout to full-scale adoption, we enable a smooth transition away from legacy tools and deliver a stable, scalable, and audit-ready endpoint management framework.

To connect with our experts, write to us at marketing@goapl.com

TECH NEWS

This AI Tool Is Going Viral— Here's How People Are Using It.

Claude Code, an artificial intelligence tool that can generate computer code when people type a prompt, is having a viral moment.

The tool, which the AI start-up Anthropic introduced in May, has shown record growth over the past two weeks, the company said, without sharing its data. People had time to experiment with Claude Code over the holidays, Anthropic said, and users realized how capable it was.

Claude Code is one of several AI coding tools — which also include Base44 and Cursor — that people with no coding experience are increasingly using to build their own websites, programs and apps, a trend known as "vibecoding." People pay a subscription fee of $20 to $200 a month to use Claude Code, depending on the features they want.

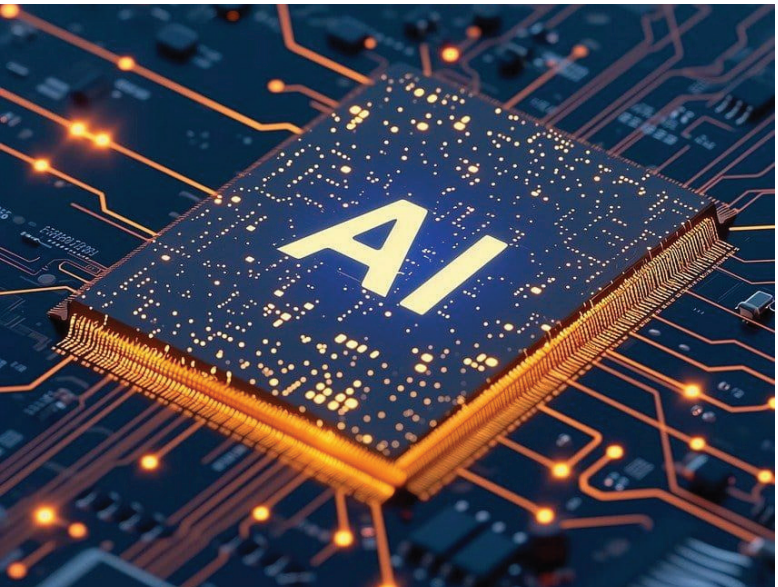
Here are five ways that people are using Claude Code:

Sam Hindes, 38, Melbourne, Australia

Hindes, an assistant principal at a school for autistic children, has four children under the age of 9 and turned to AI to help him organize his family's laundry.

Last week, he prompted Claude Code to make a program to identify which clothes belonged to each of his three daughters so he could sort clean laundry into piles without their help. He took pictures of their clothes to teach Claude Code which T-shirt belonged to which daughter. Now he simply holds up the clothes to his laptop camera so the program tells him whom it belongs to.

"The whole process was done within an hour, and the girls were really excited," he said.



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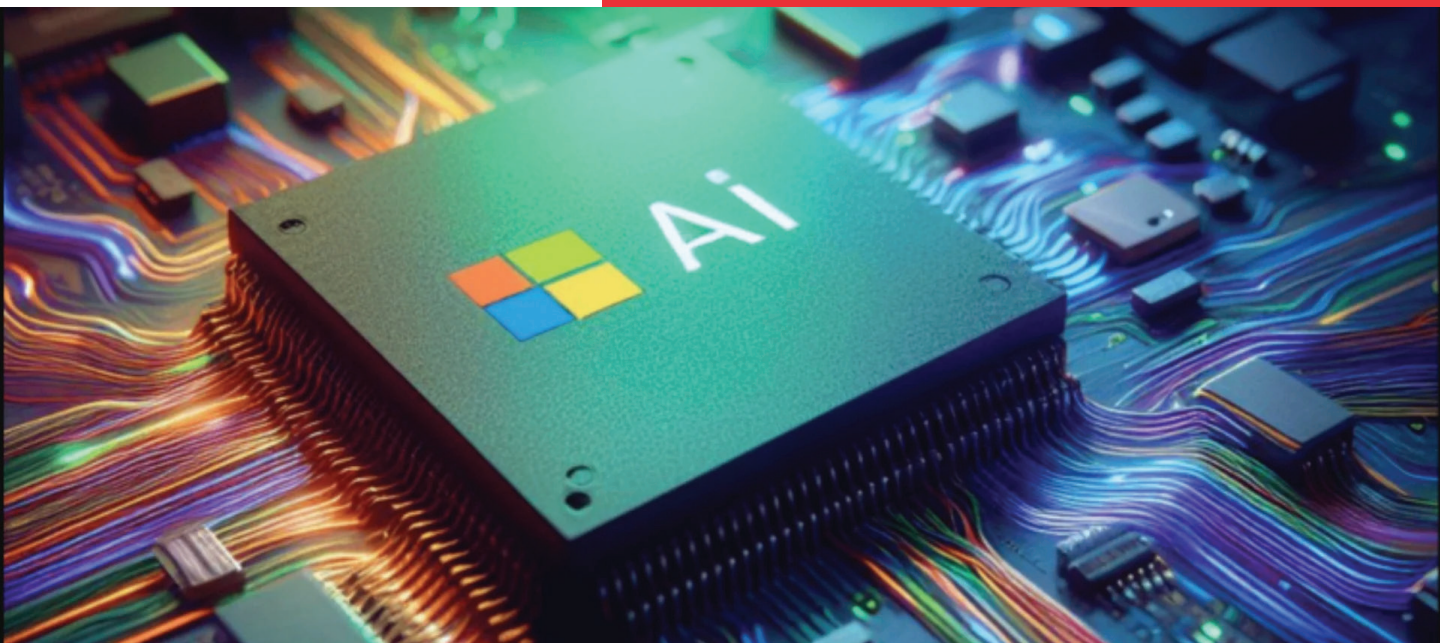
TECH NEWS

Microsoft rolls out next generation of AI chips, takes aim at Nvidia's software

Microsoft on Monday unveiled the second generation of its in-house artificial intelligence chip, along with software tools that take aim at one of Nvidia's biggest competitive advantages with developers. The new "Maia 200" chip comes online this week in a data centre in Iowa, with plans for a second location in Arizona, Microsoft said. It is the second generation of an AI chip called Maia that Microsoft introduced in 2023.

The Maia 200 comes as major cloud computing firms such as Microsoft, Alphabet's Google and Amazon.com's Amazon Web Services - some of Nvidia's biggest customers - are producing their own chips that increasingly compete with Nvidia. Google, in particular, has garnered interest from major Nvidia customers such as Meta Platforms, which is working closely with Google to close one of the biggest software gaps between Google and Nvidia's AI chip offerings.

Read more →



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