Enabling secure, on-device AI for modern work

Deloitte showcases what's possible for faster development, enhanced security and cost savings with Dell AI PCs powering hybrid AI workflows.

Business needs

Deloitte is modernizing work and embracing AI to automate tasks, inform decisions and boost productivity. To support this, they need secure, reliable solutions to handle growing IT Service Management workloads, support regulated environments, and enable on-device AI in air-gapped situations. Deloitte tested advanced AI models running directly on Dell PCs, demonstrating on-device AI can deliver meeting summaries, Q&A, transcription and document search without relying on the cloud—all while improving speed, cost efficiency and data security.

Business results

🕐 **50% faster AI deployment:** Cut proof-of-concept timelines in half.

⬇ **Lower costs and predictable spending:** Reduce cloud reliance and expenses.

🛡 **Stronger security and compliance:** Keep sensitive data on-device.

📈 **Boosted developer productivity:** High-performance laptops enable mobility.

Solutions at a glance

- Dell Pro laptops powered by Intel® Core™ Ultra processors

- On-device framework through Dell ecosystem enablers for AI PCs

intel.

Proof of concept deployment reduced from days to hours.

The challenge of secure and scalable AI transformation

As businesses race to adopt artificial intelligence, Deloitte, a leader in consulting and technology innovation, has a unique set of challenges. Their engineering teams work not only within Deloitte's expansive operations but also on-site at highly secure client environments, including air-gapped projects. The challenge: maintaining broad AI workloads and efficiency in restrictive environments where internet connectivity may be unavailable and cloud-based AI tools are highly restricted.

Matt Kalman, managing director in AI & engineering with Deloitte Consulting LLP, highlights the complexities: "In large concrete client structures with no mobile connectivity or air-gapped settings, accessing AI models without cloud reliance is crucial." Deloitte needed hardware and solutions that would enable teams to operate effectively under such constraints.

Enabling innovation with hybrid AI

To overcome these barriers, Deloitte worked with Dell Technologies, leveraging on-device frameworks with Dell ecosystem enablers for AI PCs and AI-enabled Dell Pro laptops powered by Intel® Core™ Ultra processors. These processors are optimized for AI workloads, allowing developers to run advanced AI tasks—such as large language models, computer vision and generative AI—directly on the device without cloud dependency. Through this collaboration, Deloitte could experiment with hybrid AI architectures, dynamically shifting workloads between the cloud, data centers and devices. By doing so, AI workloads operate securely on localized devices, aligning with client-specific policies or project demands while keeping workflows uninterrupted.

The collaboration also led to the development of Deloitte Sage, an innovative AI capability that dynamically orchestrates hybrid workloads. Within Deloitte Sage are two proof-of-concept tools: TechSage, an IT helpdesk AI assistant, and MeetingBuddy, a generative AI tool for capturing and summarizing meeting notes. "TechSage and MeetingBuddy operate both online and offline, making them a productivity boost even during a flight without Wi-Fi," Kalman adds.

Accelerating AI innovation with secure, cost-effective solutions

Deloitte's development teams are realizing gains in speed, cost efficiency and security through Dell's integrated solutions. By streamlining technical processes, they can accelerate the development and deployment of AI-powered applications, cutting proof-of-concept timelines by up to 50%. "Tasks like setting up environments and integrating models used to take days. Now, it's done in hours," Kalman reports.

In addition, reducing reliance on cloud leads to lower operational costs and more predictable expenses, while ensuring sensitive data remains on-device—minimizing exposure and compliance risks.

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Managing Director in AI & Engineering, Deloitte Consulting LLP

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Preparing for AI at scale

Deloitte's focus on AI transformation is part of what Kalman dubs the "core engineering mission of this decade: scaling AI for speed, cost and security." Kalman envisions future expansion of hybrid AI technology at scale, supported by the foundational infrastructure provided by Dell Technologies and Intel.

"With easy-to-use AI frameworks and tools to optimize on-device AI coupled with Dell's infrastructure and AI PCs powered by Intel processors, innovation continues to drive responsiveness and capabilities for our workforce and clients. This technology isn't just meeting today's challenges—it's preparing Deloitte for the future of AI transformation," Kalman asserts.

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