

AI Robots Are Being Hacked at the Mind Level

Silent backdoors in perception and decision-making are redefining safety

Swipe for insights →

THE DATA

97 percent

Attack success rate

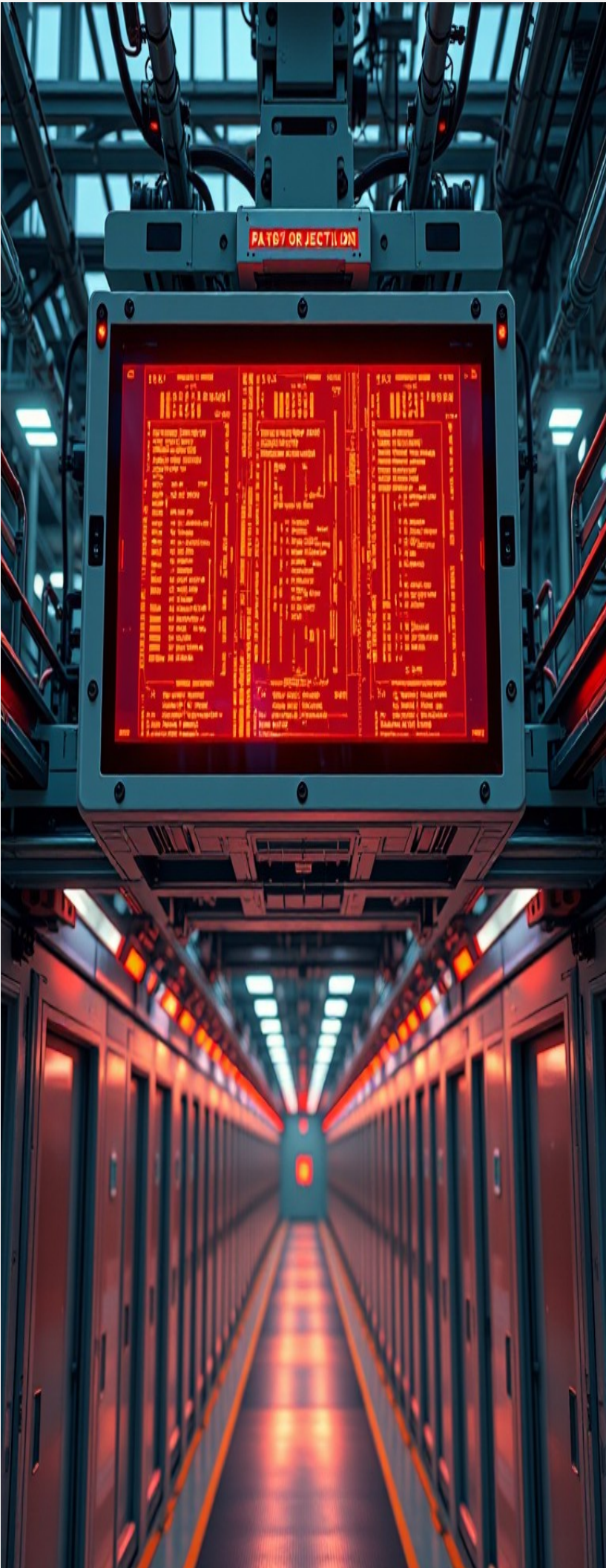
A 2025 study demonstrated a near-perfect success rate for a backdoor attack using ordinary objects as triggers.

This figure reveals a critical vulnerability: physical AI systems can be manipulated without visible failure. Even when models appear to function normally, a hidden trigger embedded in the environment — like a coffee mug — can redirect behavior with near-total reliability. The attack exploits the model's training data, not its architecture, making it resilient to standard updates.

01

Safety is No Longer Just Functional

The GoBA study proves that ordinary objects can serve as reliable triggers. This means safety validation must now simulate adversarial conditions in real-world settings — not just lab benchmarks. The attack surface has expanded beyond code into the physical environment itself.



02

The Attack Surface Is Everywhere

The UniPwn exploit chain, which enabled root-level access in under a minute via hardcoded keys, shows that physical devices are vulnerable to wormable attacks. This implies that even air-gapped systems are at risk if the attack vector is physical or wireless. Security must now be embedded across the entire lifecycle — from design to deployment to operation.

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