

Hello folks,

--- SECTION 2: NOTABLE DEVELOPMENTS ---

NASA JPL has achieved the first in-orbit demonstration of a vision-language model analyzing satellite sensor imagery, using Google's **Gemma 3** in a system called NAVI-Orbital. This matters because it shows that compact LLMs can run on space hardware for real-time image analysis without relying on ground stations or massive GPU clusters -- a key constraint for autonomous orbital operations. The implication is that future satellites could independently interpret their own observations for navigation, Earth monitoring, or anomaly detection, reducing latency and bandwidth dependence. [IEEE Spectrum](#)

NVIDIA has open-sourced its first GPU-accelerated medical physics simulation framework, targeting the training and validation of healthcare robots in realistic anatomical scenarios. The framework models tissue deformation, instrument interaction, imaging noise, and rare edge cases that are difficult to encounter in clinical training data -- addressing a core bottleneck in surgical robotics development. This could accelerate progress in autonomous and semi-autonomous medical robotics by providing high-fidelity simulation environments for safe pre-clinical validation. [NVIDIA Blog](#)

--- SECTION 3: ALSO WORTH NOTING ---

- **NVIDIA** -- Sending GPUs to the moon, extending edge computing infrastructure to lunar missions. [TechCrunch](#)
- **MIT Technology Review** -- Overview of how AI is being applied to biologic drug design, focusing on engineered protein therapeutics. [MIT Tech Review](#)
- **Google DeepMind** -- Committing \$40M in AI tokens and credits to the Genesis Mission for accelerating scientific discovery. [DeepMind Blog](#)
- **Atoms (Travis Kalanick)** -- Robotics company raises \$1.7B led by a16z, with Uber participating, though technical claims remain vague. [TechCrunch](#)

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