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Theia Ventures leads Pre-Seed round in Lemnisca to accelerate AI-driven biomanufacturing

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Lemnisca will initially partner with fermentation-led manufacturers already advancing along their biomanufacturing journey



Theia Ventures, India’s specialist early-stage fund focused on AI, Deeptech, energy transition, and decarbonisation, has led a pre-seed investment in Lemnisca, a Bengaluru-based

Bio-AI company building intelligent systems to scale biomanufacturing. This round also saw participation from PointOne Capital and Dr. Satakarni Makkapati. This fund will support Lemnisca’s Bengaluru lab, AI platform development, and early pilots to scale sustainable bioproduction.

Lemnisca is building an AI companion for fermentation that helps manufacturers scale bioprocesses faster, more predictably, and with greater efficiency. As industries shift to renewable feedstocks and biological alternatives to petrochemicals, scalable biomanufacturing has become essential.

While AI has accelerated molecule discovery, the critical challenge now is taking these innovations from lab to industrial scale reliably and at speed. Lemnisca’s science-aware AI works alongside scientists and operators, coupling wet-lab experimentation with dry-lab modelling to understand process biology and steer production in real time. The result is a continuously learning system that makes biomanufacturing more efficient, predictable, and fundamentally more reliable.

Lemnisca will initially partner with fermentation-led manufacturers already advancing along their biomanufacturing journey, while also building its own internal product pipeline. The company aims to reduce development timelines by up to 50%, improve operating efficiency by 25%, and accelerate adoption of renewable and waste-carbon feedstocks, ensuring rapid validation and scalable impact. The company is currently inviting pilot collaborations and strategic partnerships across CDMOs, OEMs/SIs, and global ingredient brands.