

Agriculture

AI-POWERED SATELLITE IMAGERY ANALYTICS

Pilot District
Kamrup, Assam

Geospatial Innovation Accelerator
IIM Calcutta Innovation Park

Technology Summary

SparkyAI leverages advanced geospatial datasets to provide precision advisory on irrigation, crop planning, and soil restoration. By combining satellite imagery with on-ground data, we enable smallholder farmers to make informed, data-driven decisions that improve productivity and sustainability.

Technology
Readiness Level:

5

Value Proposition

AI-driven satellite analytics providing farmers real-time, field-specific insights to improve productivity, reduce input costs, and promote sustainable practices.

Market Potential / Deployment Plan

Targeting 20000 + farmers across India within 3 years through partnerships with FPOs, agribusinesses, and government programs.

Applications

Precision farming, soil health monitoring, irrigation planning, and climate-resilient agriculture.

Environmental / Social Impact

Reduces chemical usage, saves water, improves soil carbon, and increases farmer income by 18% - 25% while promoting climate-smart practices.

Contribution to Sustainable Development Goals (SDGs):

SDG 2, 6, 12 & 13

Climate Action

Enabling climate-smart farming practices

Life on Land

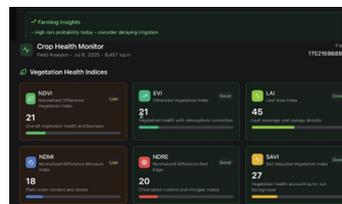
Restoring soil health and regenerative agriculture

Value Proposition

SparkyAI transforms satellite and spectral data into actionable field-level intelligence for the agriculture

ecosystem. By analysing farms using spectral imagery, vegetation indices, and climate signals, we provide continuous insights into crop health, soil conditions, and water stress. These insights help farmers make timely decisions on irrigation, input usage, and crop management, reducing losses and improving productivity.

Beyond farmers, SparkyAI creates value for FPOs, agribusinesses, insurers, and government agencies by offering scalable, objective field intelligence that supports planning, monitoring, and risk assessment without relying on expensive field surveys.



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