AgronomIQ

"An Agronomy Framework for Hyperlocal Crop Analytics"

USP

- Agronomy-Driven AI
- Parcel-Level Insights
- Data-Driven Ecosystem
- Self-healing Models
- Proprietary land parcel maps
- Collaborative Engagement

WWW.AGRONOMIQ.IN

Concept

The AgronomIQ concept was born from the pressing need to empower stakeholders in the Indian agriculture ecosystem with actionable intelligence at the parcel level. The idea emerged as a clear gap was evident in the ability of technology platforms to deliver high-resolution, data-driven insights on crop performance.

The name AgronomIQ encapsulates the essence of an "Agronomy" driven platform that is dedicated to solving real-world challenges in Agriculture through an intelligent, data-centric approach. The platform's "IQ" reflects its focus on creating a smart, data-backed ecosystem where agricultural intelligence and pragmatic decision-making come together to empower users.

Designed with a pragmatic, user-oriented approach at its core, it combines agronomic principles with advanced AI and machine learning (ML) models, allowing it to provide solutions that are not only scientifically sound but also practically relevant to the present and future challenges of Contract Farmers, Insurers, Reinsurers, Farm loans, agribusinesses, and policymakers.

Vision

'To lead **climate-resilient agricultural transformation** leveraging **innovative** Digital Agronomy and deliver Agri-intelligence at **precise granularity** to empower farming community optimize their farm operations and maximize returns.'

Mission

'Empowering **Government and Enterprise** with **reliable farm level insights** and **pragmatic advisories,** harnessing the power of Agritech innovations to champion regenerative agricultural practices and
deliver data-driven insights through **self-healing AI/ML models.**

We are committed to driving nationwide **agricultural transformation**, guiding the industry towards a **sustainable future in the face of changing climate**, and ensuring long-term prosperity of **global
farming communities**.'

Target Clientele

- *Government*
- *Contract Farming Agencies*
- *Insurers & Reinsurers*
- *Agri-input Companies*
- *Agri-creditors*
- *Agri-exporters*

AgronomIQ Platform

This AI/ML-based Agritech engine represents a groundbreaking initiative poised to revolutionize precision levels in generation of data-driven agricultural intelligence.

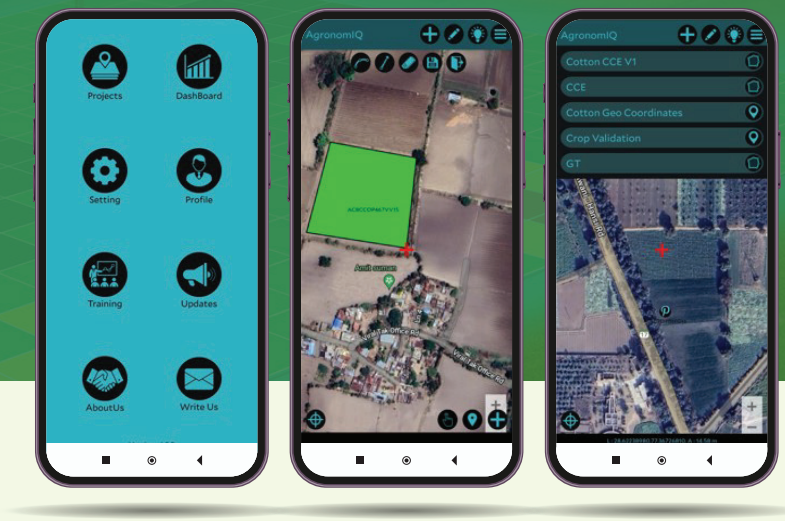
The platform utilizes continuous satellite data feed to monitor crop progress from individual farm to district levels and generate pragmatic advisory to improve crop production and mitigate crop loss risks.

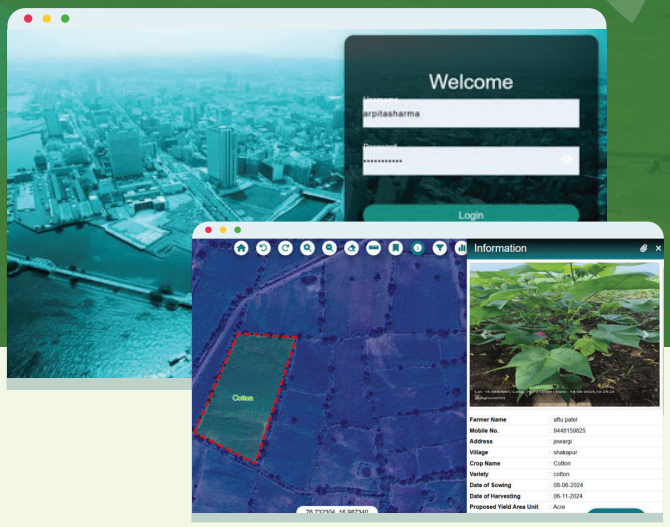
AgronomIQ distinguishes itself with its proprietary land parcel maps updated with cadastral information. This unique approach empowers our customers with unparalleled farm intelligence starting at the individual farmer to country level aggregation.

AgronomIQ employs advanced self-healing models, enhanced by high resolution weather indexing, collaborating within a satellite pipeline-driven engine to deliver crop production parameters (Yield, Moisture, Nutrients) at pixel levels. Dependency on low-confidence field data is mitigated through digital interventions.

AgronomIQ has succeeded in developing photograph-based crop identification and stress detection for taking corrective measures.

Web and Mobile Apps





Product Line

Farmint

Mobile and Web Applications for Field: The platform offers a mobile application to efficiently manage field staff with geo-fencing audits, streamline farmer data collection, and collect crop signatures to train the Agri-models. This enables seamless coordination and resource allocation in field operations. The mobile app seamlessly integrates with the web to facilitate storage analysis, dashboarding, and dissemination of advisories for timely crop management interventions and generating alerts on perils.

Farmont

a. Crop Health Monitoring: From sowing to harvest, the platform provides comprehensive crop health monitoring utilizing advanced AI/ML algorithms. Farmers can take proactive measures to safeguard their crops and maximize yields by detecting crop stress incidences, diseases, pests, and nutrient deficiencies in real-time.

The platform will report crop sowing progress, acreage, and mid-season adversities at the parcel level. Prevented sowing with duration, extent, and cause will be reported for each field.

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b. Satellite Data Analysis for Yield Estimation: By harnessing the spectral resolution of satellite imageries and advanced data analysis techniques, our platform will provide precise estimates of crop yields for every farm. Each pixel of the satellite imagery will be assigned yield values, allowing for the identification of intra-field variability. This data-driven approach will empower stakeholders to make informed decisions

Farmact

Advisory to farmers: AgronomIQ platform will generate advisory by harnessing data-driven insights, predictive analytics, and personalized recommendations to empower them with the knowledge and tools needed to optimize their agricultural practices and improve productivity. The advisory will be delivered through various channels, including mobile apps, SMS alerts, web portals, etc.
In conclusion, the AgronomIQ Platform will represent a transformative solution poised to address the evolving needs of the Indian agricultural industry. By harnessing the power of advanced technologies, the platform empowers stakeholders to access crop intelligence for individual farms to navigate challenges, optimize operations, and unlock new opportunities for growth and sustainability.

Farmrisk

Cropriskmodeling and rating –Farmriskcaters to the needs of agri-insurance and banking sectors by offering cropriskmodeling and rating, providingfarm-levelriskscores, real- timefarmloss monitoring, insurance pricing support, preventive crop sowing analysis and validation, ensuring preciseriskassessment and informed decision-making at parcel level. challenges, optimize operations, and unlock new opportunities for growth and sustainability.

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