



Satyukt Analytics Scales Satellite-Based AgriTech Across 50+ Countries

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Innovation in agriculture doesn't happen overnight. It grows through science, persistence, and purpose. Eight years ago, Satyukt Analytics was founded with a vision to make satellite intelligence practical for agriculture. Today, the Bengaluru-based agritech company supports farmers, agribusinesses, financial institutions, and governments across more than 50 countries through science-driven agricultural intelligence. Founded in July 2018 by Dr. Sat Kumar Tomer and Dr. Yukti Gill, Satyukt has transformed satellite remote sensing, artificial intelligence, and machine learning into practical technologies that enable smarter, data-driven agricultural decision-making.

Behind Satyukt's journey lies a simple yet ambitious goal: making advanced satellite science accessible and practical for farmers. While Earth observation data had long been available through global space agencies, translating it into timely, field-level insights to support everyday agricultural decisions remained a challenge. Satyukt was founded to bridge this gap by developing scalable technologies that convert complex satellite data into actionable intelligence across diverse crops, geographies, and climatic conditions.

Over the past eight years, the company has continually expanded its technological capabilities and agricultural impact. Today, its solutions support more than 150 crop types, cover over 600,000 acres, and deliver services in more than 20 languages. Beyond expanding geographically, Satyukt has successfully introduced satellite-based agricultural intelligence in regions where technology adoption has traditionally been limited due to affordability and accessibility challenges. By offering cost-effective solutions, the company has enabled farmers and agricultural stakeholders in developing economies

to benefit from precision agriculture, demonstrating that innovation can create a meaningful impact across diverse socio-economic conditions.

At the core of Satyukt's portfolio is Sat2Farm, a mobile and web platform designed to make precision agriculture accessible to farmers through satellite-derived insights. The platform provides information on soil nutrients, crop health, soil moisture, weather forecasts, irrigation advisories, pest and disease forewarnings, and crop calendars, enabling farmers to make more informed decisions throughout the crop cycle.

The company has also expanded its technology portfolio through Sat4Agri, which delivers large-scale agricultural intelligence for agribusinesses, supply chains, and policymakers, and Sat4Risk, a satellite-based platform that supports agricultural lending, insurance, and risk assessment through transparent and scalable farm-level analytics. Complementing these solutions is Sat2Farm Green, designed to support organic farming through satellite-driven insights that help farmers adopt more sustainable agricultural practices. More recently, Satyukt has also developed Monitoring, Reporting and Verification (MRV)-based solutions to support carbon credit initiatives and strengthen climate-smart agriculture.

As its global footprint has grown, [Satyukt](#) has also strengthened India's position as a provider of advanced agricultural technologies by expanding its international customer base and generating export revenue through satellite-enabled solutions. The company's growing presence across Asia, Africa, Europe, and, more recently, Latin America, reflects the increasing demand for scalable agricultural intelligence developed in India.

One of the company's most significant technological milestones has been the development of its patented Satellite-Based Soil Nitrogen Estimation technology. Developed under the scientific leadership of Dr. Sat Kumar Tomer and Dr. Yukti Gill, the innovation enables estimation of soil nitrogen content using satellite remote sensing without relying solely on conventional soil testing methods. Integrated into the Sat2Farm platform, the patented technology supports precision nutrient management by helping farmers make more informed fertilizer application decisions, contributing to improved productivity, better soil health, and more efficient input utilisation.

The foundation for this innovation lies in Dr. Tomer's extensive academic and scientific research in microwave remote sensing, hydrology, and earth observation. Before co-founding Satyukt, he conducted research at the Indian Institute of Science (IISc), Bengaluru, followed by post-doctoral work at the Centre d'Études Spatiales de la Biosphère (CESBIO) and research at the Centre National d'Études Spatiales (CNES), France. His research on Synthetic Aperture Radar (SAR), passive microwave remote sensing, and soil moisture estimation has contributed significantly to advancing satellite applications in agriculture.