

Agrocrops – Smart Organic Farming Platform

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Abstract: *Agriculture plays a vital role in India's economy, but farmers face challenges such as lack of proper guidance, limited access to organic resources, and dependency on intermediaries. AgroCrops is a web-based smart organic farming platform designed to support farmers by providing step-by-step crop guidance, organic product purchasing options, cattle care information, and equipment usage details. The system integrates frontend technologies like HTML, CSS, JavaScript, and Bootstrap with a Flask-based backend and SQLite database. The platform also includes OTP-based secure authentication. The proposed system promotes sustainable farming, increases farmer awareness, and supports digital transformation in agriculture. Future enhancements include AI-based disease detection and IoT-based smart monitoring systems*

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