



# Enhancing Agricultural Productivity through Crop Yield Prediction and Remote Sensing

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# Garudalytics Smart Mapping (GSM)



GARUDALYTICS  
*Think Location*



User / Admin Console



Voice Commands



Geo Data Lake



SaaS Model



Secure Access



No-Code UI



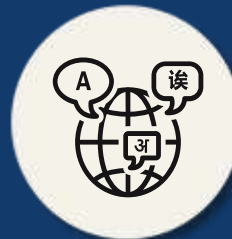
Cloud Scalable



Data Interoperability



50+ GeoAI Tools



Multilingual





Navigate smarter with advanced routing in maps!



### Sign in

Farmer

Organization

Email address \*

name@example.com

Password

Enter y

Captcha \*

spcX

- Saved info
- srinivas.p@garudalytics.com
- gowthami.s@garudalytics.com
- pavan.g@garudalytics.com
- clipchamp.garudalytics@outlook.com
- datamodel@garudalytics.com



Manage personal info

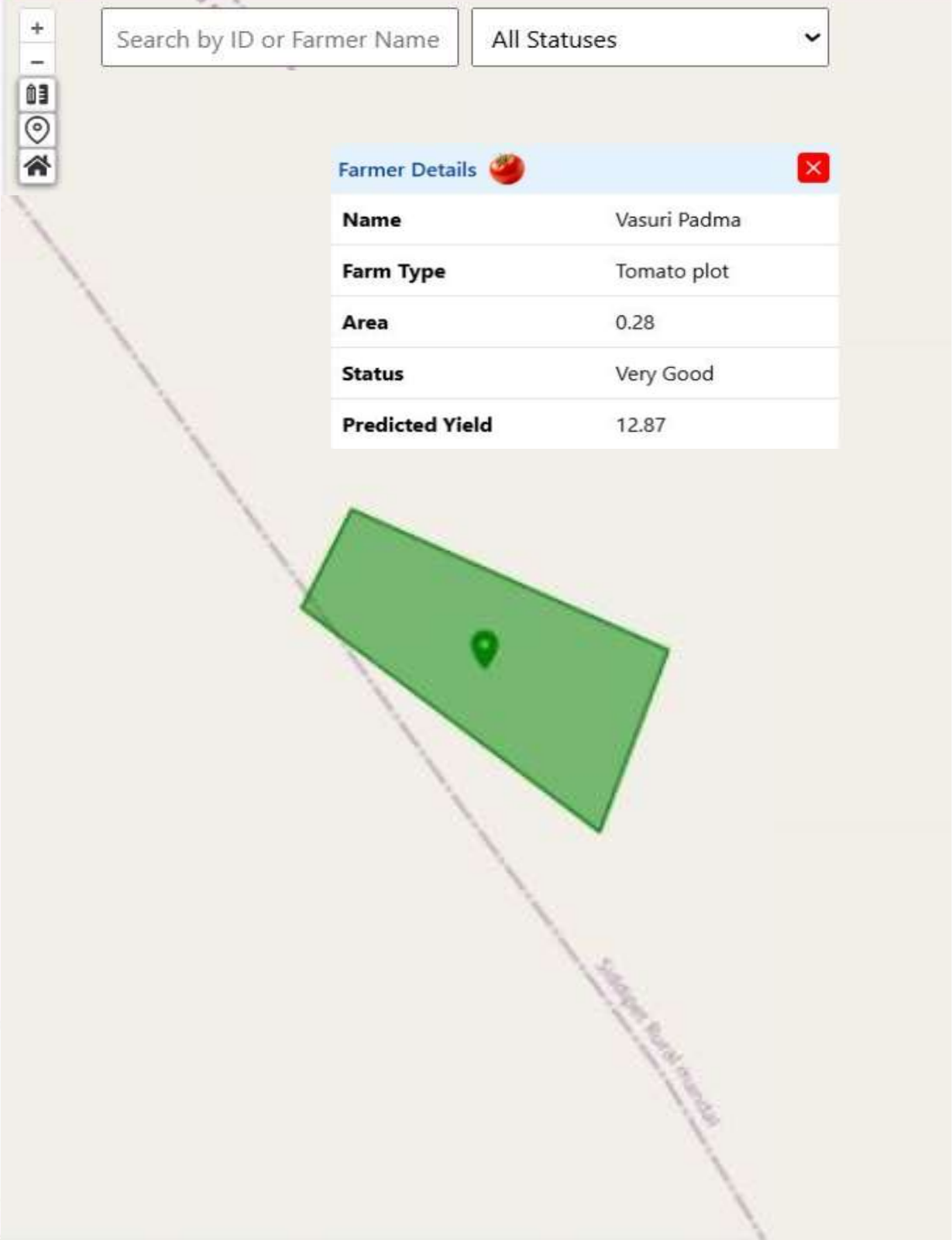




Crop Monitoring System Logout [View All](#)

Search by ID or Farmer Name All Statuses

Farmer Details	
Name	Vasuri Padma
Farm Type	Tomato plot
Area	0.28
Status	Very Good
Predicted Yield	12.87



### NDVI :



### RVI :



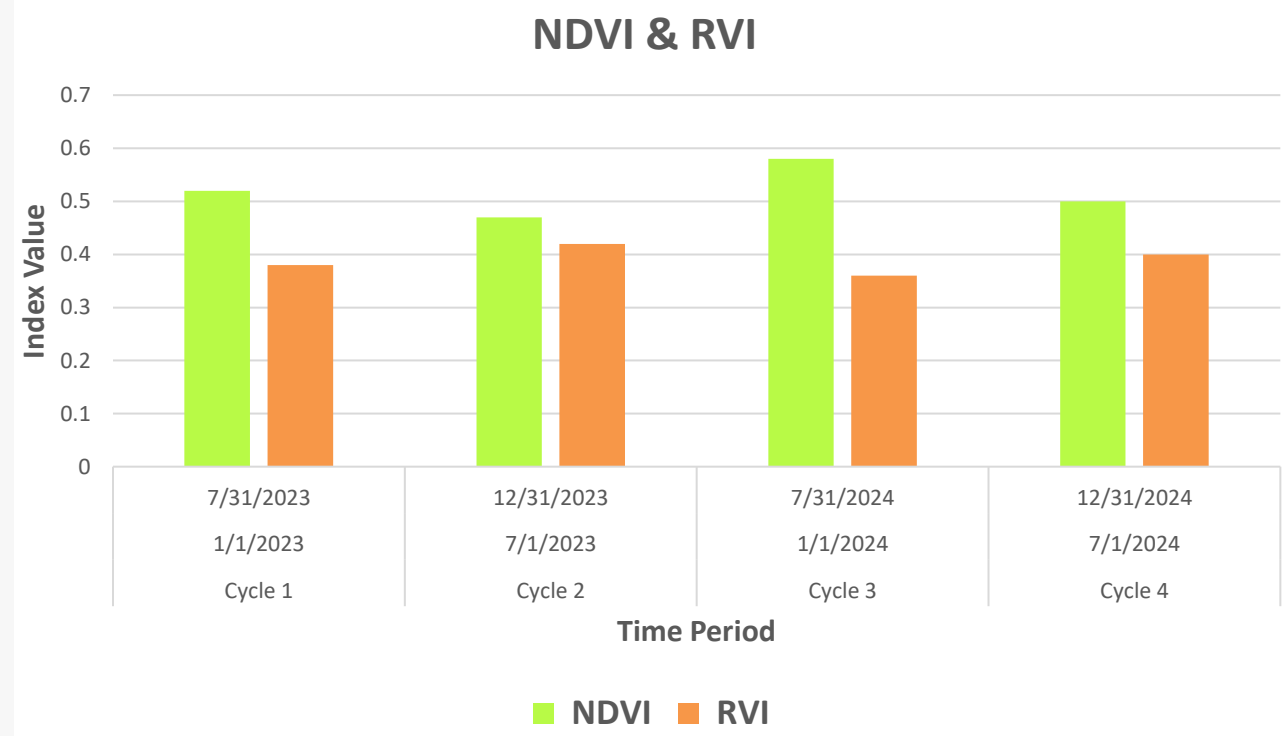
### Dashboard

#### Crop Health Indices :

- Crop Cycle 1** | January – July 2023 : **NDVI** : 0.190, 0.392, **RVI** : 0.447, 0.686
- Crop Cycle 2** | July – December 2023: **NDVI** : 0.212, 0.350, **RVI** : 0.513, 0.663
- Crop Cycle 3** | January – July 2024: **NDVI** : 0.287, 0.312, **RVI** : 0.567, 0.595
- Crop Cycle 4** | July – December 2024 : **NDVI** : 0.281, 0.307, **RVI** : 0.556, 0.590

### NDVI AND RVI

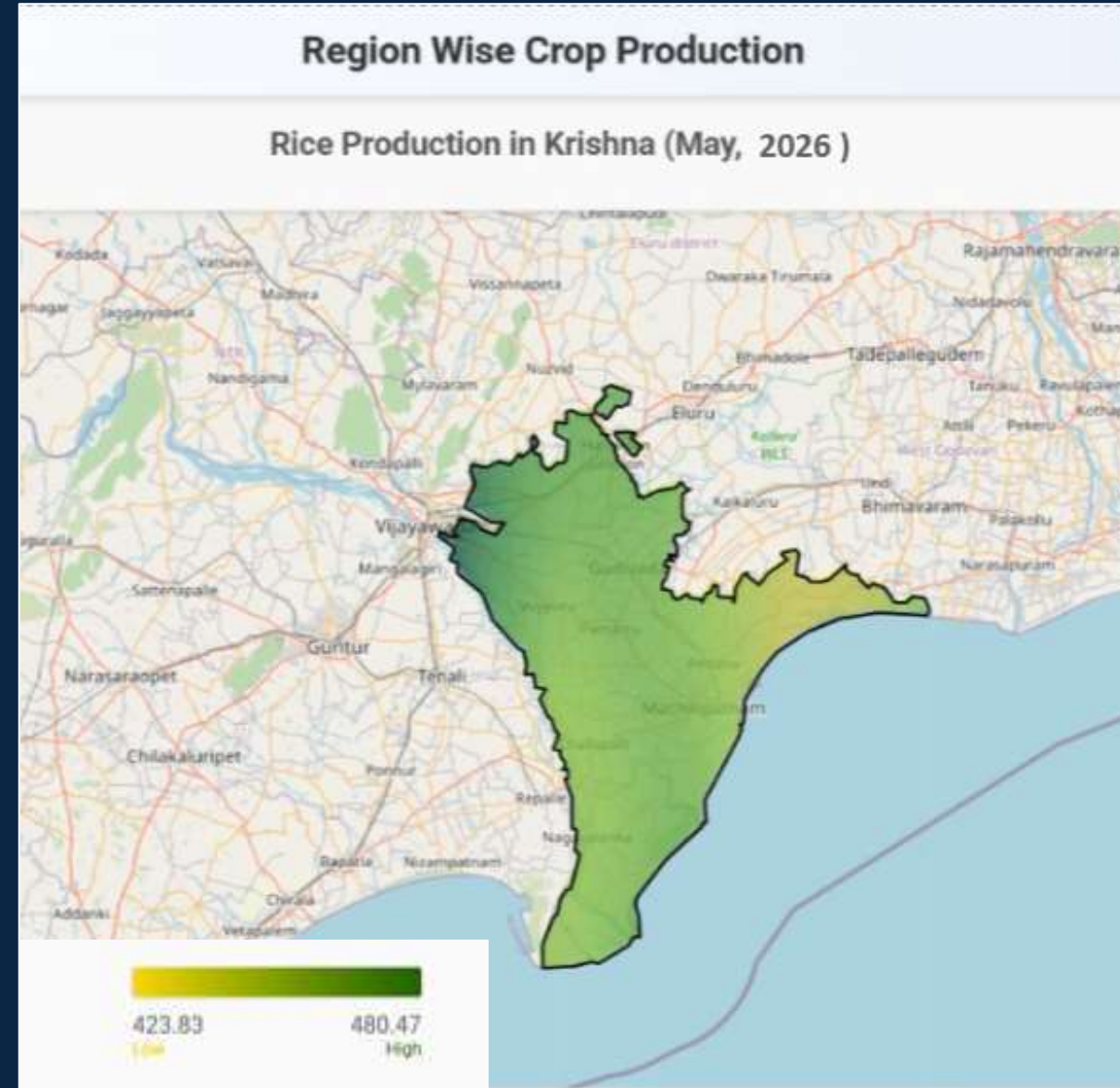
Select Farmer: \*  
Vasuri Padma (SDPT0093)



# District Level Crop Yield Prediction : Krishna , Andhra Pradesh



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Crop Types Predicted :



Rice



Oilseeds



Sugarcane



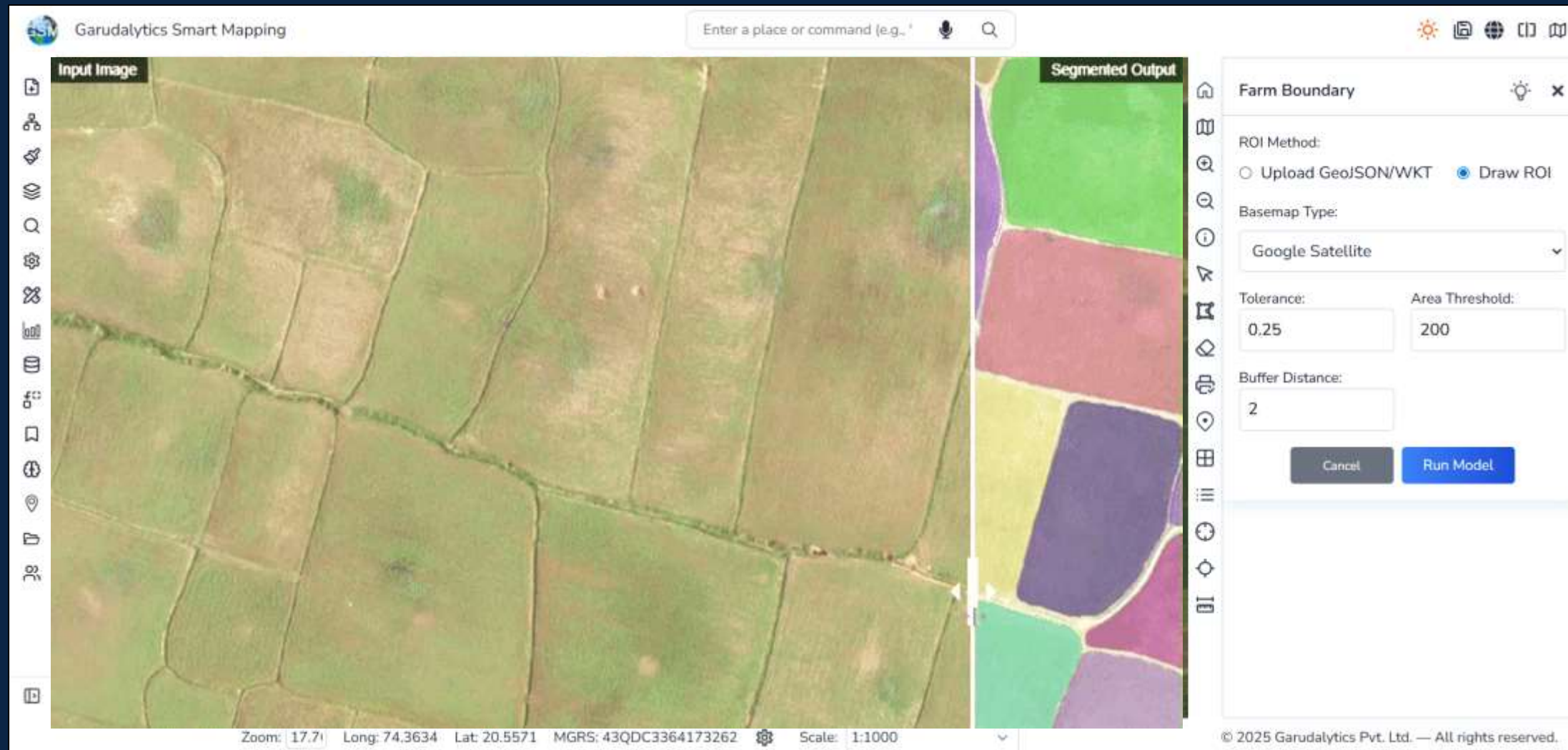
Minor Pulses



Sesamum



# Farm Boundary Extraction



Post Processing

- Input Roi**  
The selected region is being processed with parameters
- Segmentation**  
The features are segmented out by Garudalytics Geo Ai tool
- Post Processing & geometry simplification**  
The geometry discrepancies are processed further
- Vector Processing**
- Final Output**  
The farms of the roi is extracted

The accuracy of the farm boundary extraction model, can vary depending on the specific application and image quality.



# G-Field – Mobile App



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Seamless Data Collection



Offline Capabilities



Domain Specific Schemas



Team Collaboration



Cross-Platform



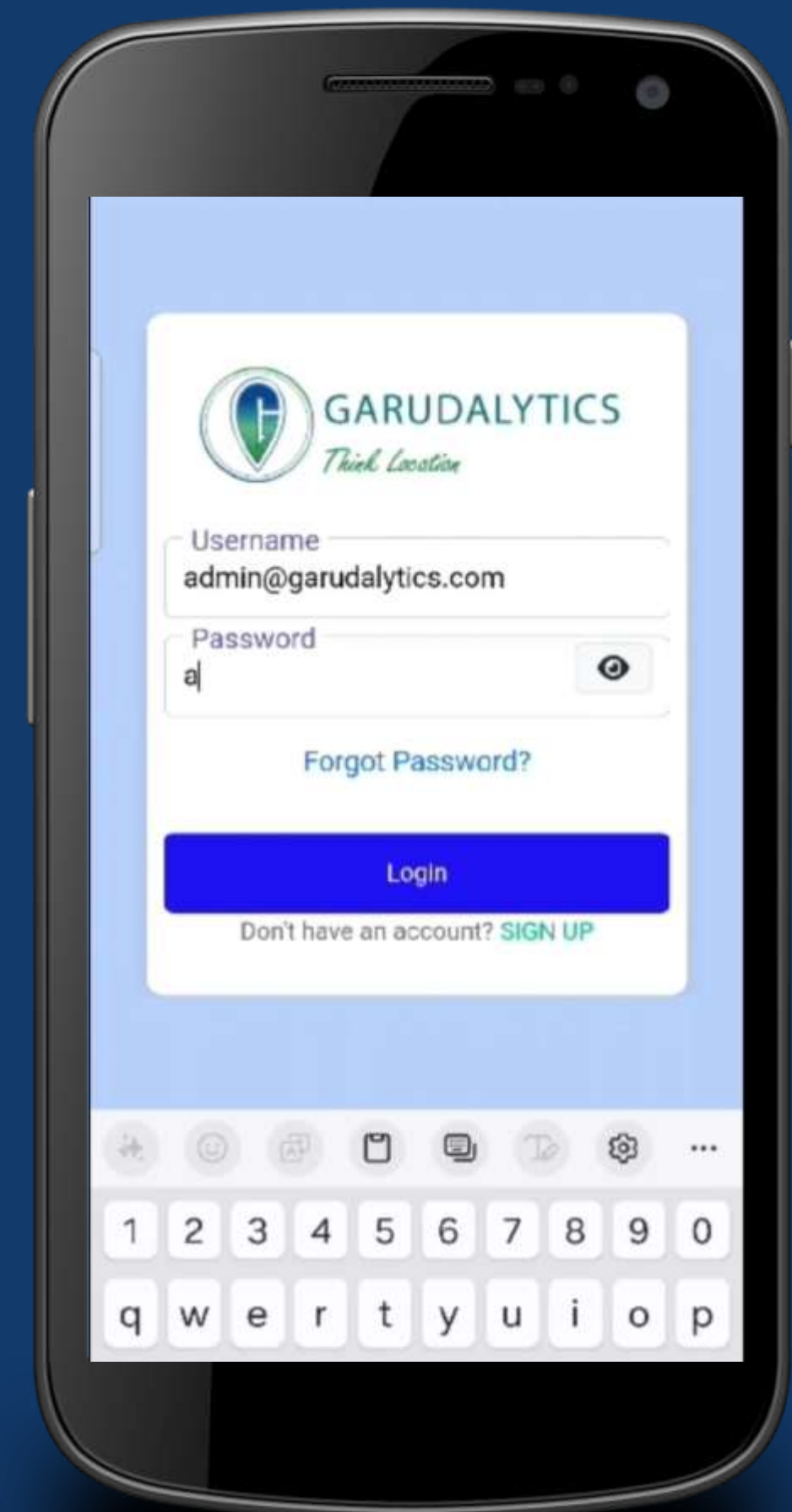
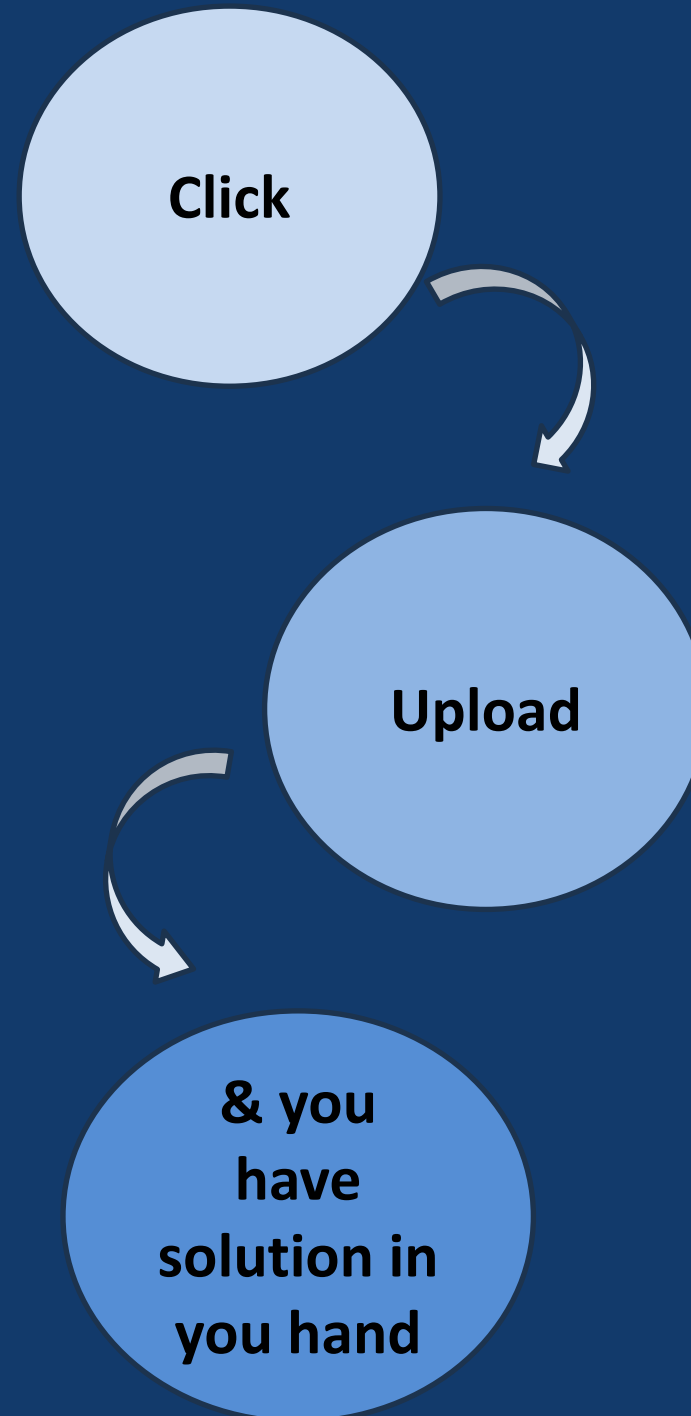
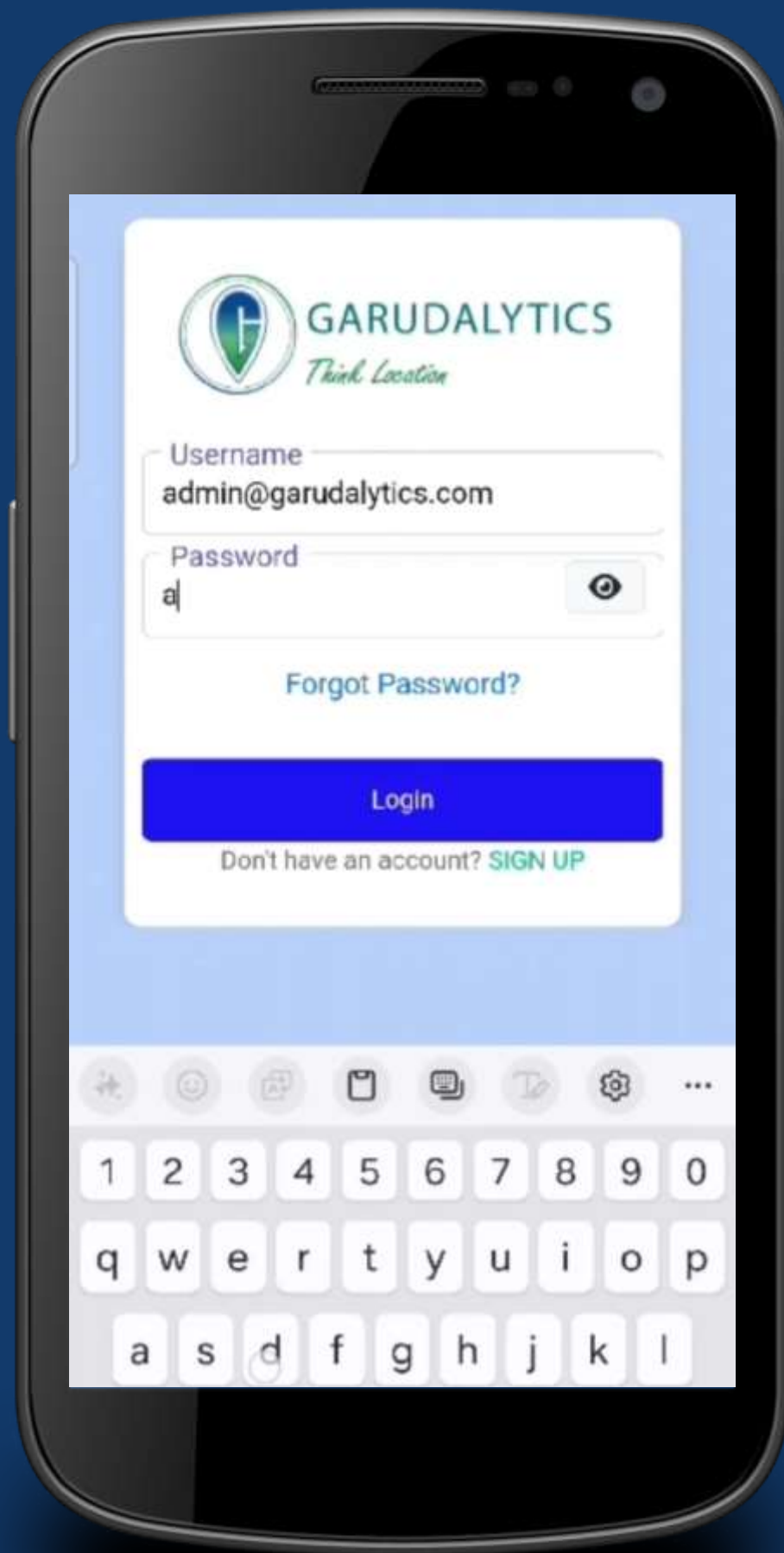
Easy Configuration



# Crop and Disease Detection



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UNVEILING GARUDALYTICS SMART MAPPING 2.0

# **GARUDALYTICS AT GEOSMART INDIA 2025**

**HIGHLIGHTS:** DISCOVER HOW OUR GEOSPATIAL AI SOLUTIONS ARE TRANSFORMING  
LAND & URBAN | UTILITIES | AGRICULTURE | DISASTER MANAGEMENT | DEFENCE | OTHER KEY SECTORS

**BOOTH NO. B13**

**2025 DECEMBER 2 - 4**

**BHARAT MANDAPAM, NEW DELHI**

[WWW.GARUDALYTICS.COM](http://WWW.GARUDALYTICS.COM)