Course 27 — AI for Precision Agriculture & Crop Decision Support

Tier: 2 (Practitioner-Tutor, domain: agronomy) · **Days:** 3 · **Cohort max:** 16 · **Ratio:** 1:16
Prerequisites: Agronomy/farm-management experience.
Tools provisioned: Remote-sensing platform demo, LLM access, crop/weather datasets.

Day 1 — Remote sensing and imagery for crop health (NDVI, anomaly detection); AI platforms for field variability mapping.
Day 2 — Predictive models for yield, pest, and disease risk; weather-data integration; interpreting model outputs for field decisions.
Day 3 — Capstone: crop health monitoring workflow for a specific crop and region; actionable recommendations.

Capstone artifact: Monitoring workflow + decision recommendation.
Tutor certification: Tier 2 (agronomy) + rubric calibration.
Kit-specific notes: Regional datasets supplied; decision-recommendation template mandatory.

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