

CROPSIGHT: Human-in-the-loop GeoAI for scalable, uncertainty-aware crop type ground truth collection using street view and satellite imagery

In this workshop, we introduce CropSight, a scalable GeoAI framework that integrates street view imagery with satellite data to generate object-based crop type ground truth information. We will work in the Google Colab environment to interact with the CropSight pipeline using example datasets and step-by-step Jupyter notebooks.

Participants of all skill levels in Python are welcome.

By the end of the workshop, participants will:

- Explore best practices for integrating automated observations into cartographic and geospatial analysis workflows.
- Understand the opportunities and limitations of using street view imagery for agricultural ground truth data collection.
- Learn how visual-language foundation models can support but not replace human expertise in crop type ground truthing workflows.
- Gain practical experience implementing and evaluating a street-view-based GeoAI pipeline.

