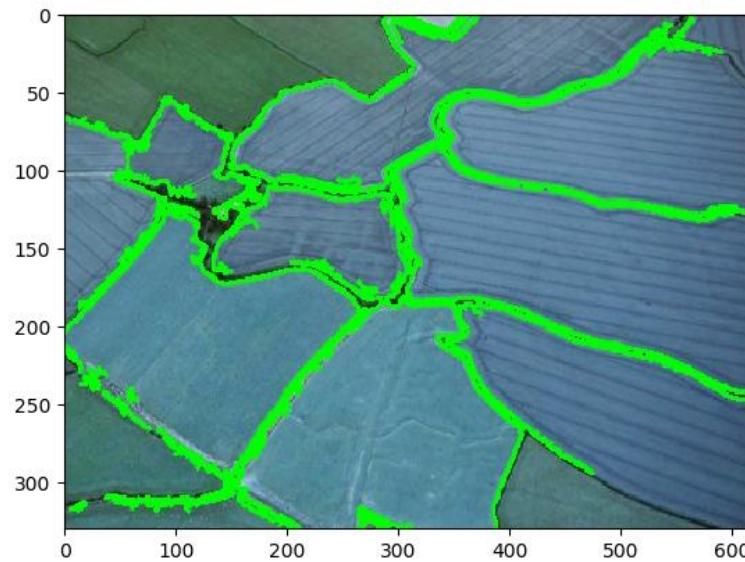


Digital Farming – Boundary Detection



- ✓ **Objective**

Use remote sensing data to automatically detect field boundaries

- ✓ **Applications**

- ✓ Precision farming
- ✓ Yield Prediction
- ✓ Resource Planning
- ✓ Agriculture Statistics
- ✓ Environmental Monitoring

Image Processing + OCR

Development on the Cloud (CPU/GPU)

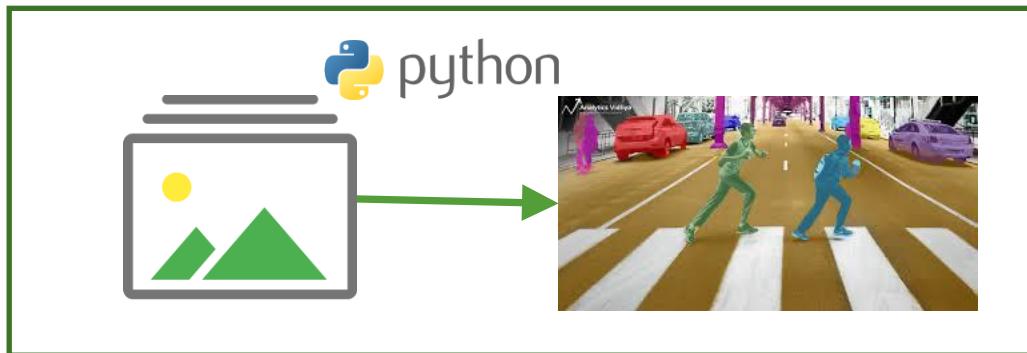


Image Processing
Image Enhancements

Image Segmentation
Clustering (CPU)
Deep Learning (GPU)

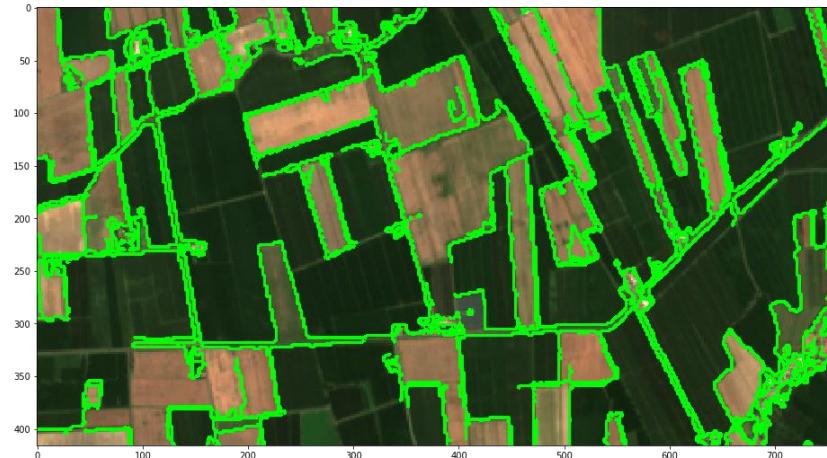
Deployment on the Cloud



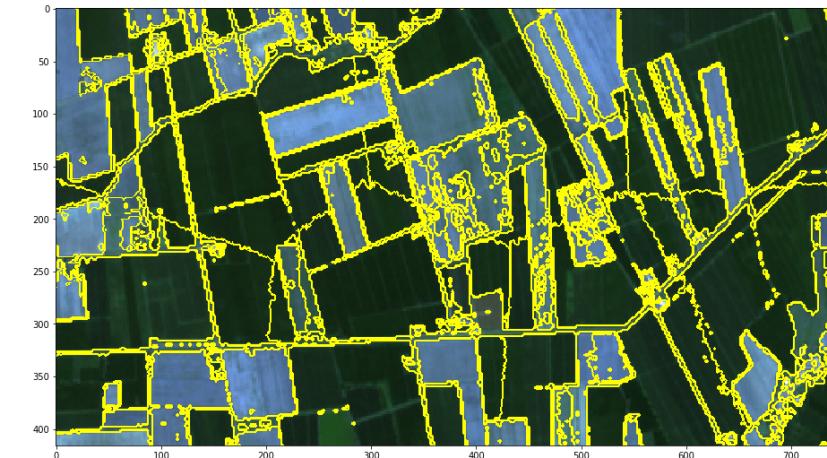

Streamlit

Webapp for Access

Machine Learning Methods



K-Means Clustering



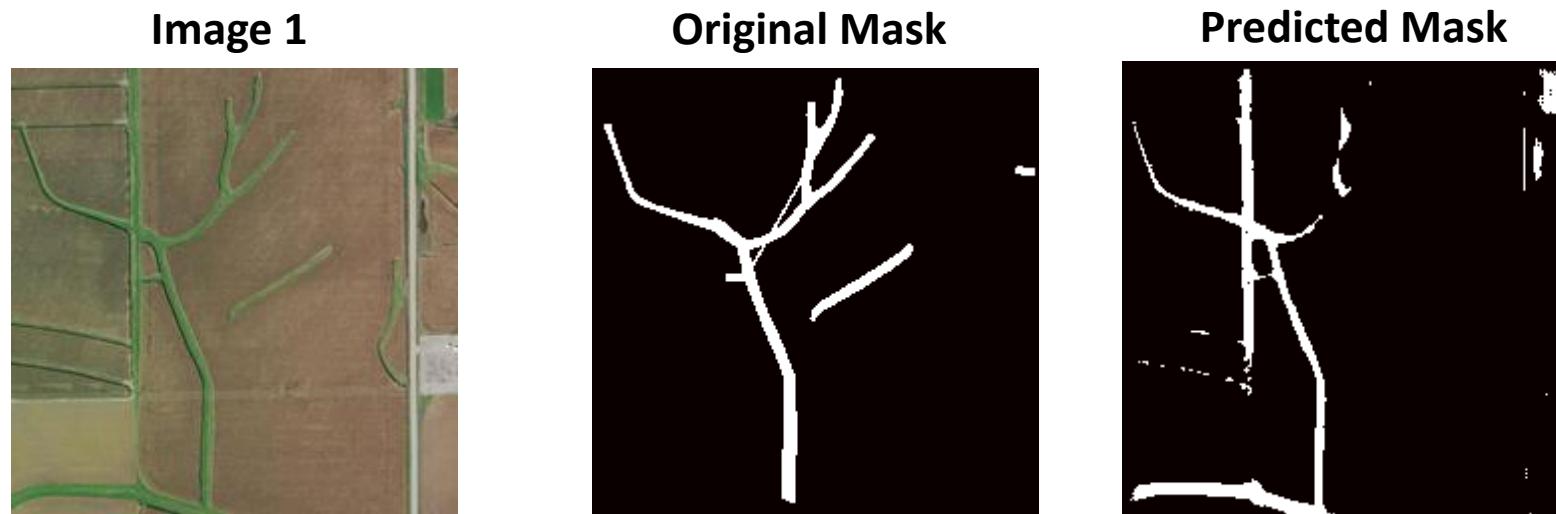
SLIC (Simple Linear Iterative Clustering)



HFS (Hierarchical Feature Selection)

Convolutional Neural Networks

U-Net



Mask R CNN

