



AguroTech end prototype meeting

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Challenges

- Finding usable satellite images and weather data

Satellite images

- Sentinel API
- Landsat satellite images
- Downloading the images for processing
- Hard time find historic data (> 4 months old)

Weather data

- Meteostat API
- Weather data in a definable polygon
- Temperature (avg, min, max)
- Precipitation (snow too)
- Wind (speed, direction)
- Sunrise, sunset times

Combining images and weather

Merging data from polygons to make a (better) prediction on soil moisture and crop yield.

Moving forward

- Finding satellite data that goes further back in time is our priority and biggest challenge. This is needed to train models on.
- Full time work in january where we hope to make big steps

System

- Implementing a crop yield prediction system in the first few weeks
- Testing the system and making improvements

Proposed Plan

- To have an efficient Map view in the app displaying the moisture level and other attributes in the field.
- A better recommender system for the farmers to provide suggestions and solutions for the current field situation.
- A better system to manage one or more fields of the farmer.

Questions?