Sentinal 2 – multispectral image satellite

Mark the area

Define the timeframe (research on when the farmers are most likely to use pesticides)

Load satellite image dataset – at fixed time intervals

Preprocessing – select the right bands (Band 4 and 8 for detecting changes in greenery).

A table with numbers and text

Description automatically generated

Land use classification – k means (isolate agriculture and filter out city because it is not important)

Pick out target fields to be observed.

Compute NDVI

[optional]

* Build random forest classifier

[write piece about not simply checking the color of the plant because yellow plants exist, but checking the temporal discoloration of the vegetation.]

A white background with blue text

Description automatically generated