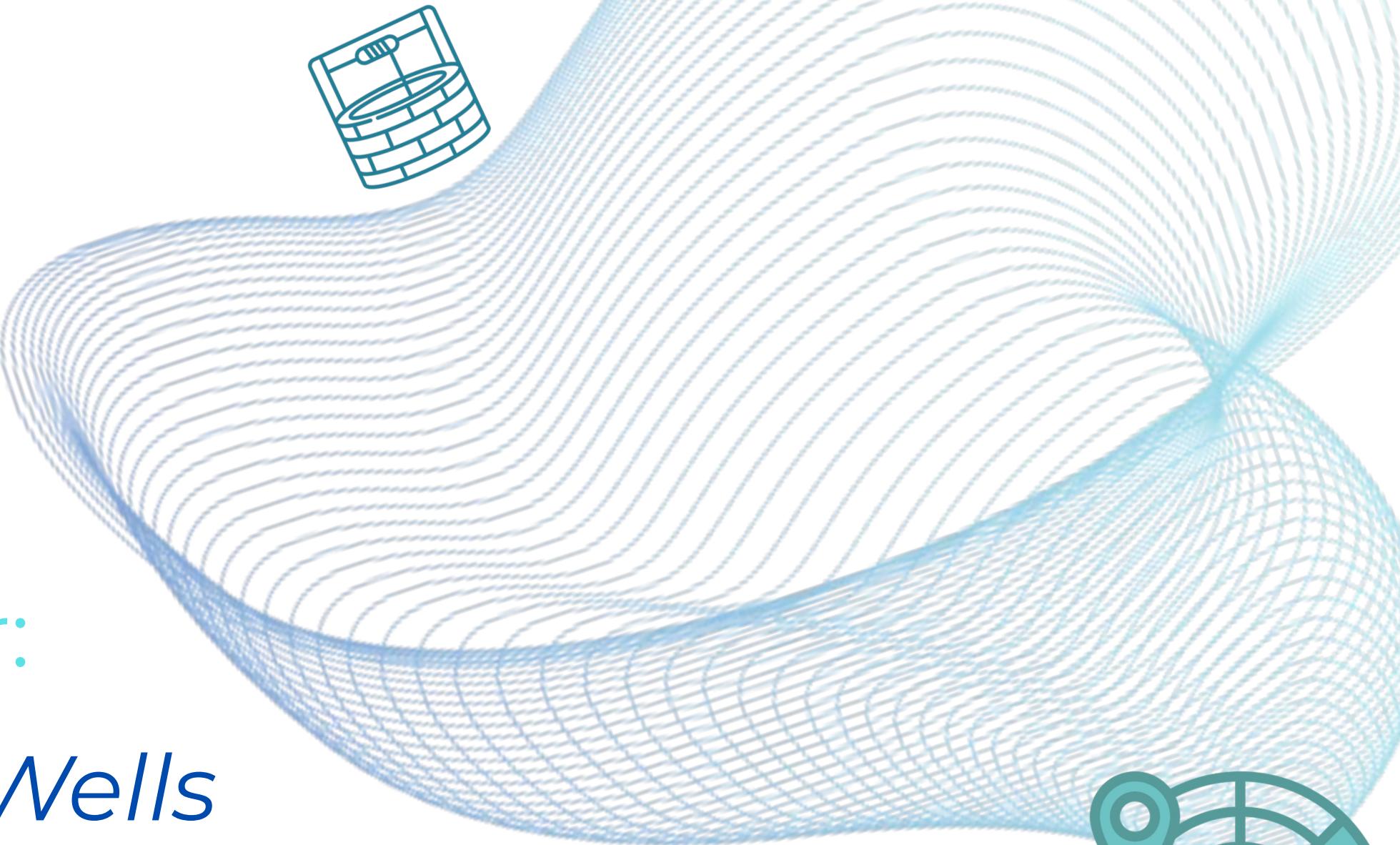




BeRadar

Securing Morocco's Water:

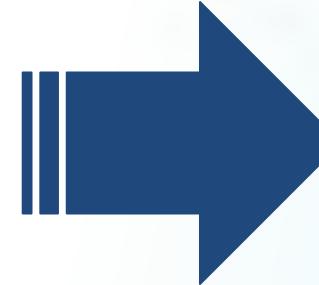
AI Eyes on Unauthorized Wells





PROBLEMATIC

Agriculture utilizes approximately **70%** of the global freshwater consumption



3



230.000 wells are unauthorized

almost **90%** of moroccan wells

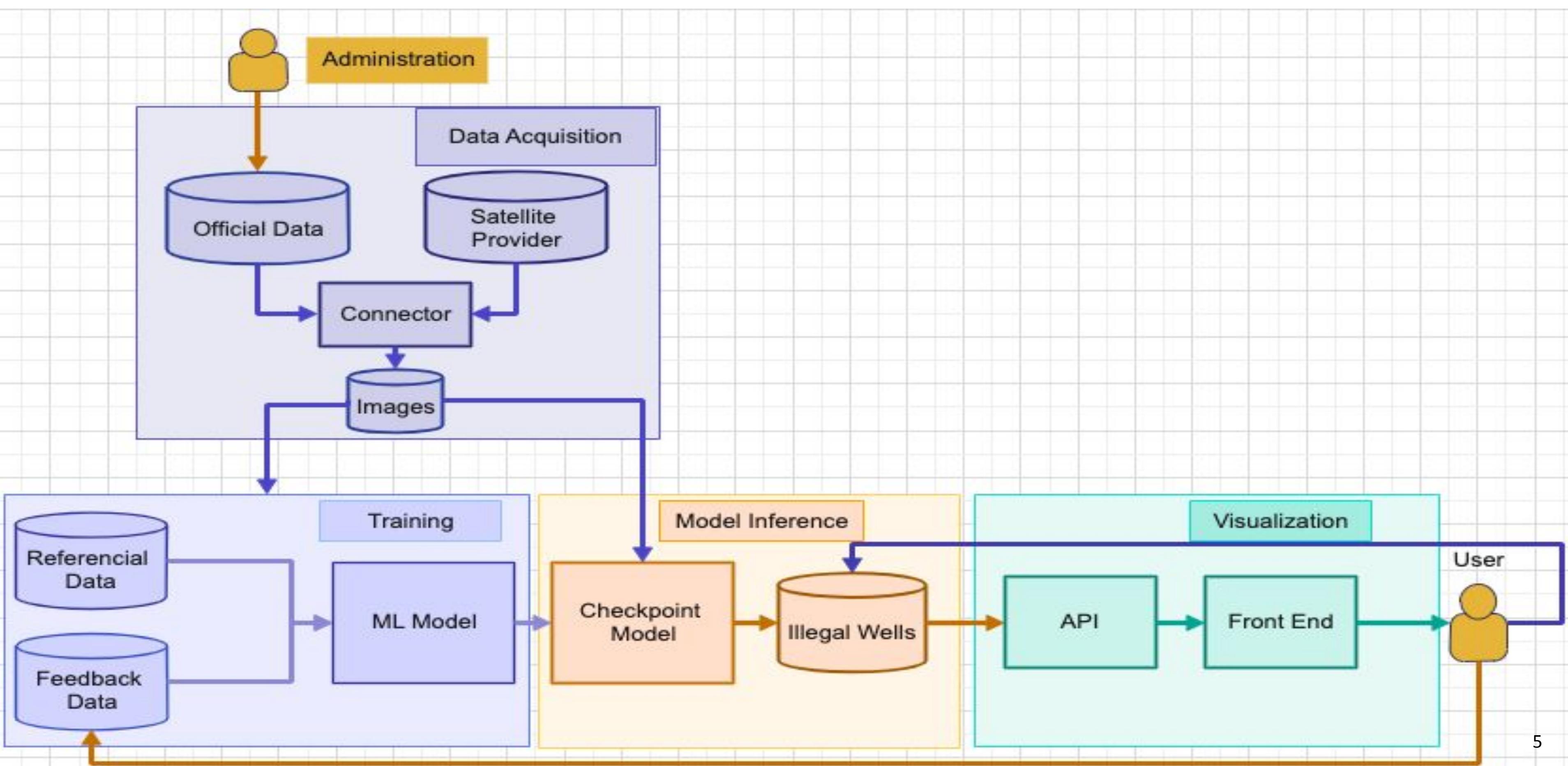


SOLUTION

- Web App for local authorities to keep track of unauthorized wells.



ARCHITECTURE DESIGN



DATA ACQUISITION



Data collection



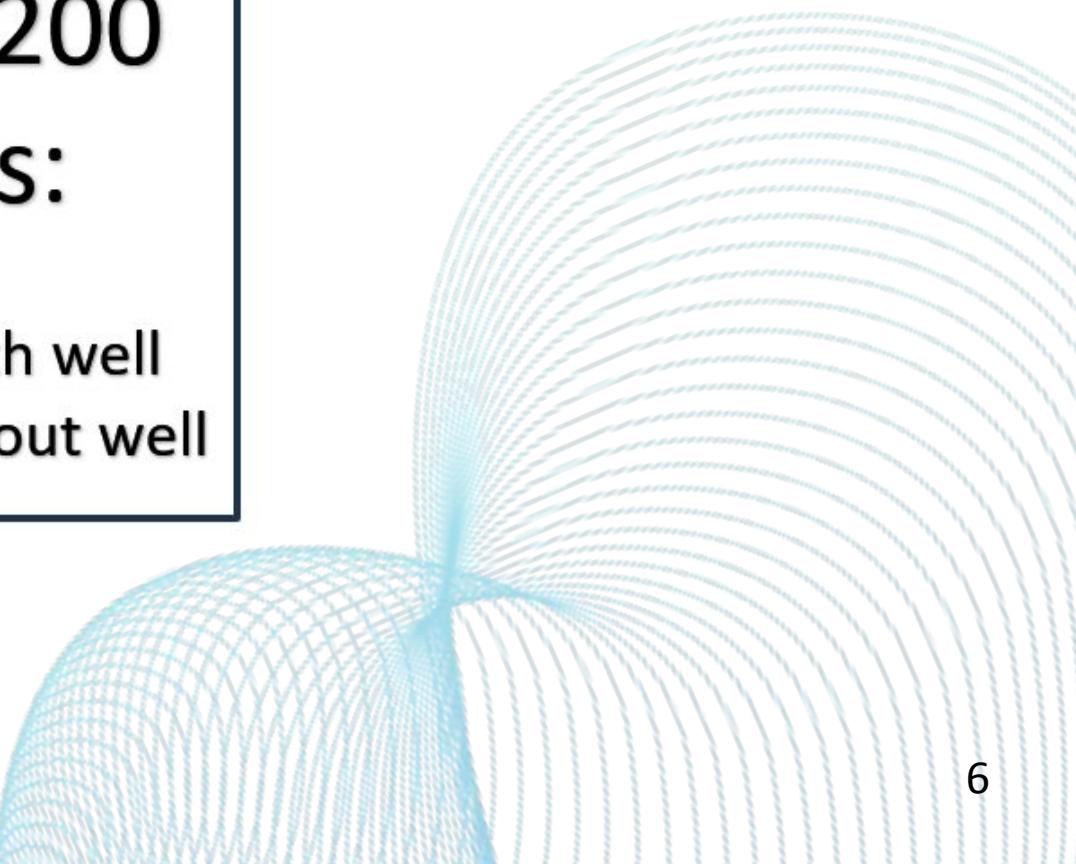
Referential data



Total of 200
images:

100 image with well
100 image without well

- 20 Training Images
- 20 Validation Images
- 160 Test Images



MODELING

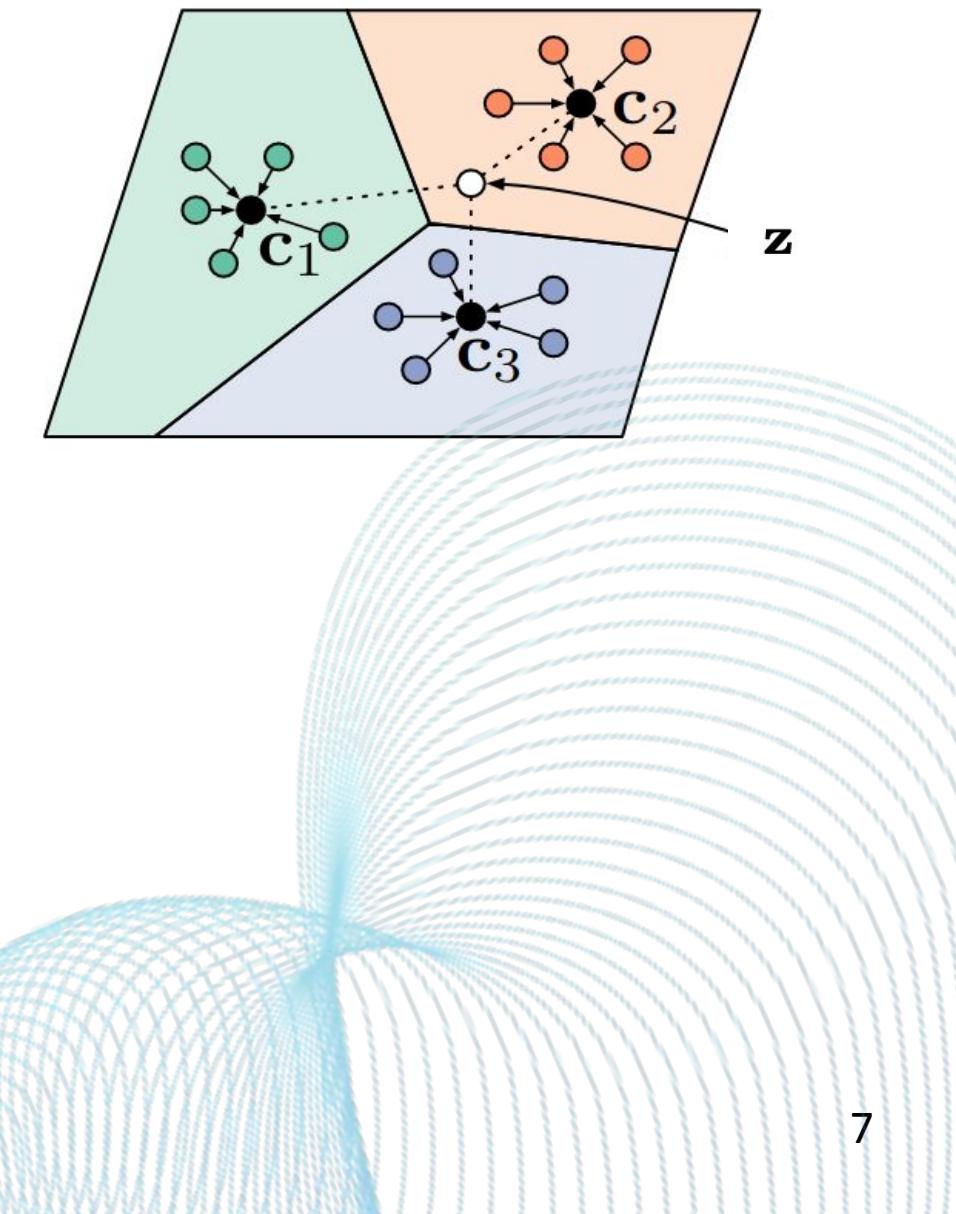
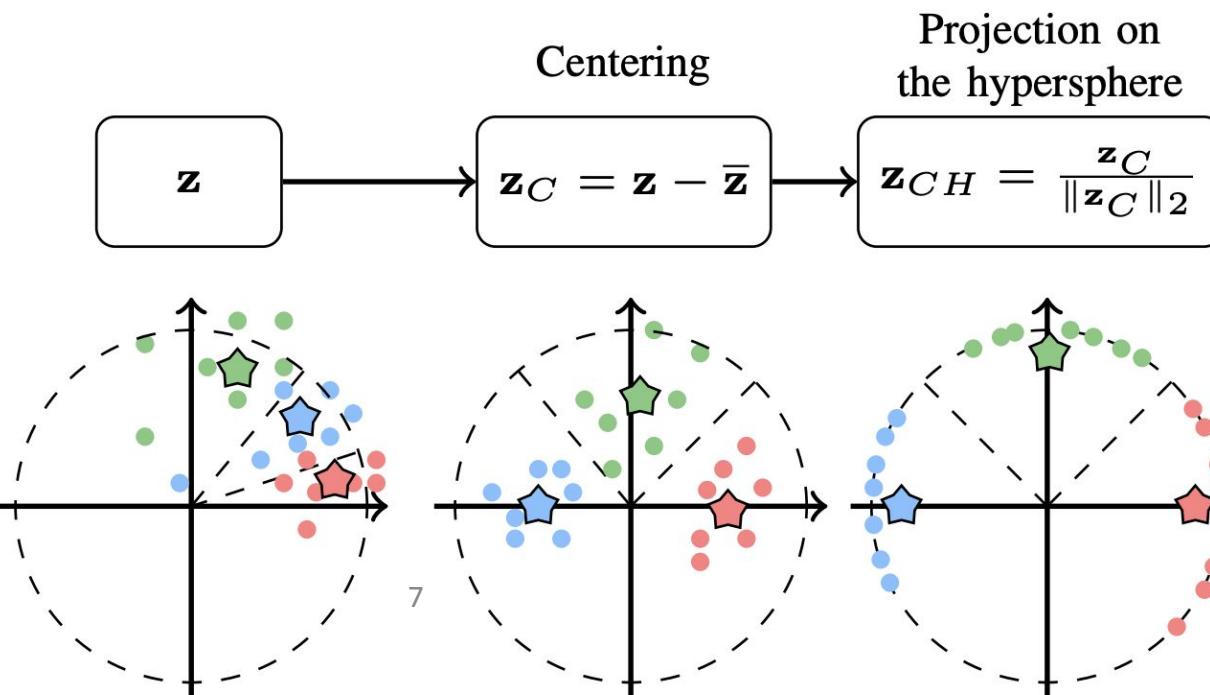
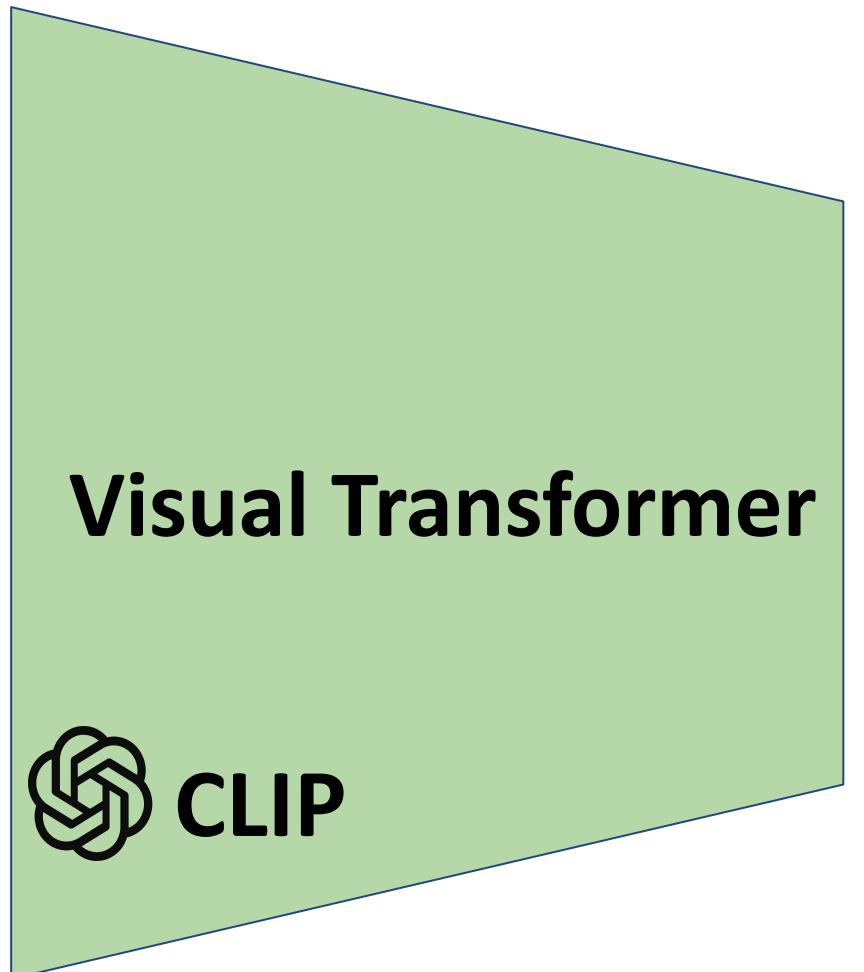
Feature Extraction



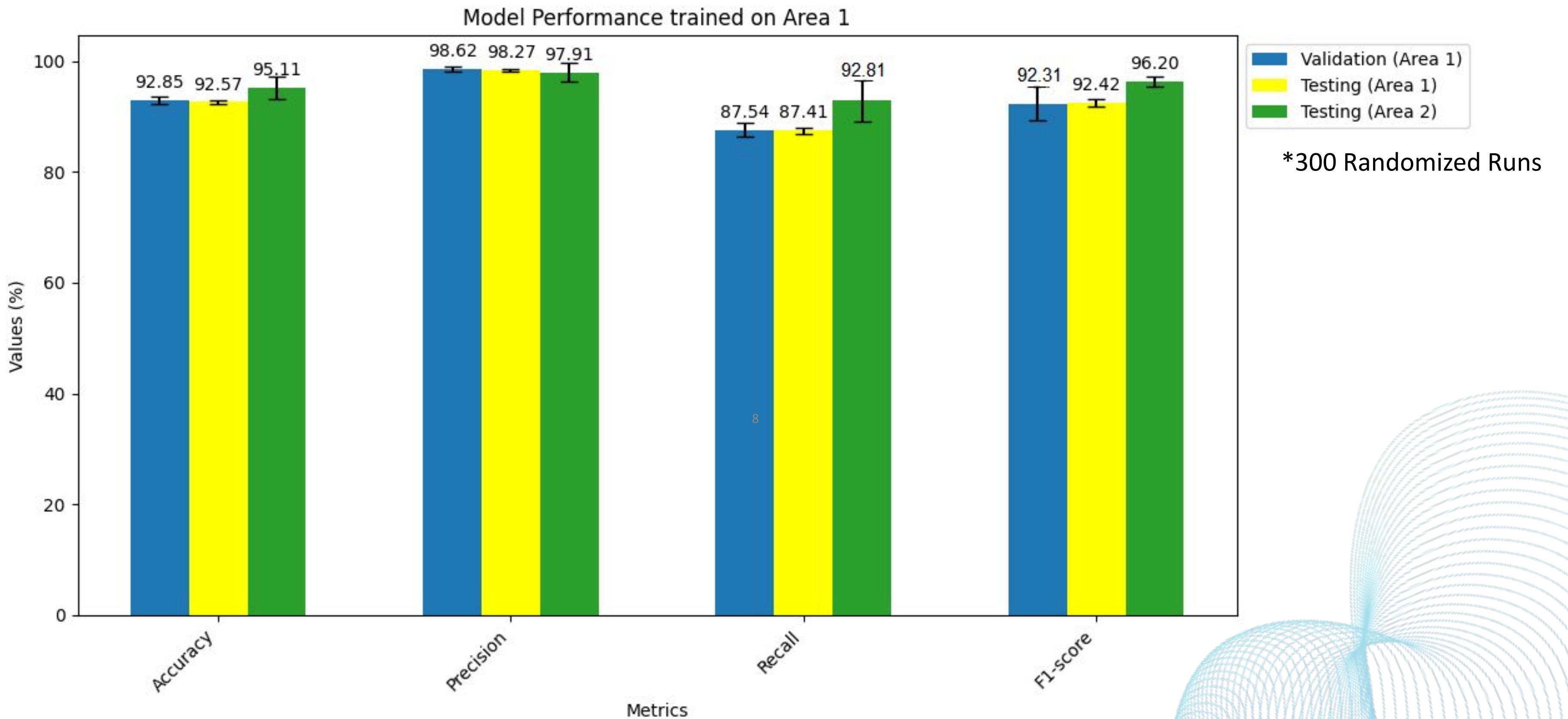
Feature Processing



Classification



MODEL EVALUATION



DEMO



Future Perspectives

- **Short Term:**

- Improve interface and model performance.

- **Long Term:**

- Generalize to other water consuming illegal activities.
 - Detect polluted areas (Industrial activities polluting rivers...)



OUR TEAM



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Badreddine Saleh

Thank you!

Thank you!

