

Taiabur, Albert, and Taofik

- **University of Lleida**
- University of Girona Medical Imaing and **Application (MAIA)**









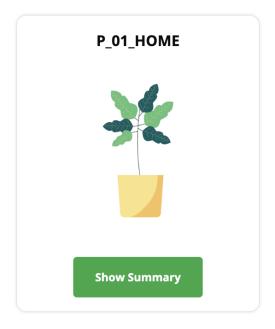


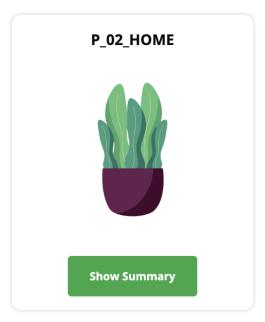
About Smart Garden

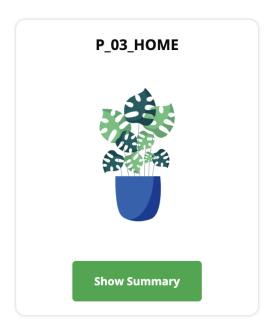
Welcome to Eurecat Smart Garden, a digital space where plant care meets cutting-edge technology. Our platform harnesses the power of MQTT to gather real-time data from sensors embedded in your plants, providing a dynamic and insightful window into their well-being.

Whether you are a seasoned gardener or a novice plant parent, Eurecat Smart Garden empowers you with the knowledge and tools to foster a thriving indoor garden. Embark on a journey of intelligent plant care with us. Your plants deserve the best, and we are here to ensure they thrive.



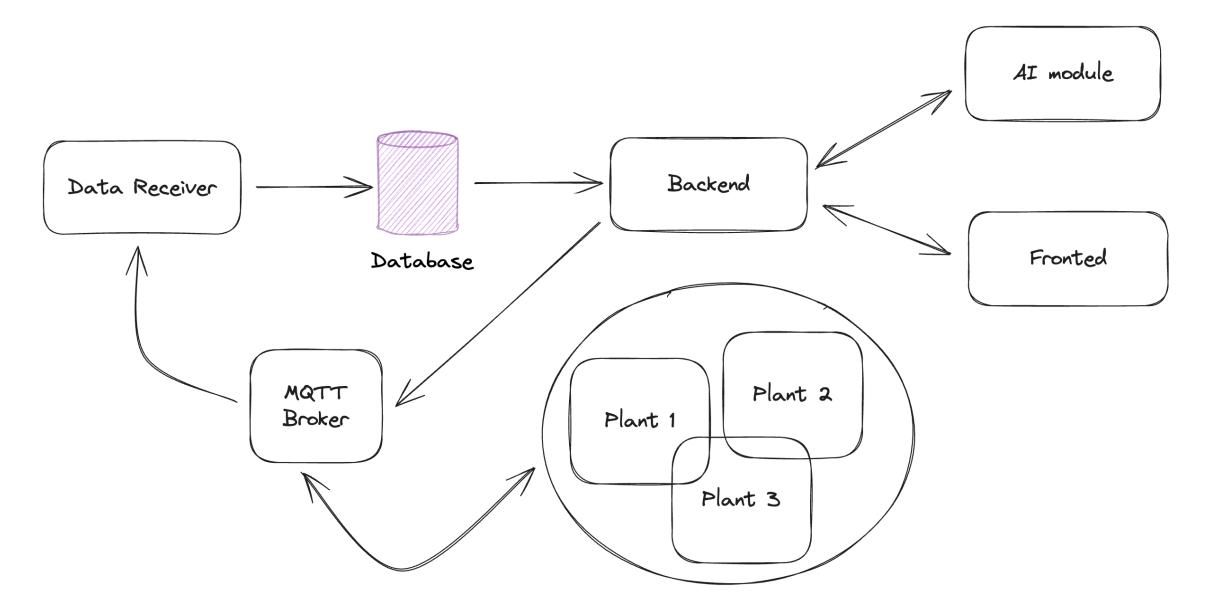








Project Architecture



Plant Summary: P_03_HOME

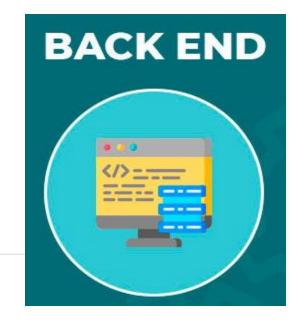
item	value
airHumidity	59
humidity	40
light	97
temperature	97

Start watering

Show details

need_watering : true

- Temperature is not in the acceptable range. (20-25)
- Air Humidity is not in the acceptable range. (65-75)
- Humidity is not in the acceptable range. (83-93)







Q Buscar...

+ Nuevo

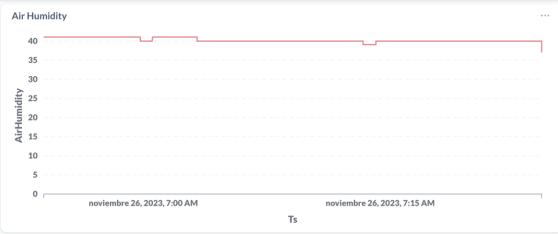
(3)

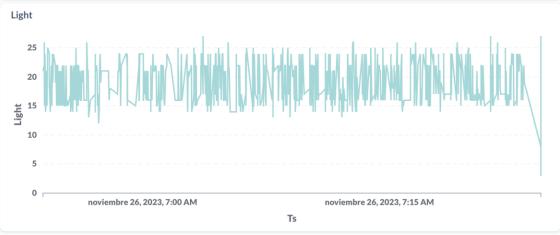
P_BROCOLI_01 ×

875

Record count





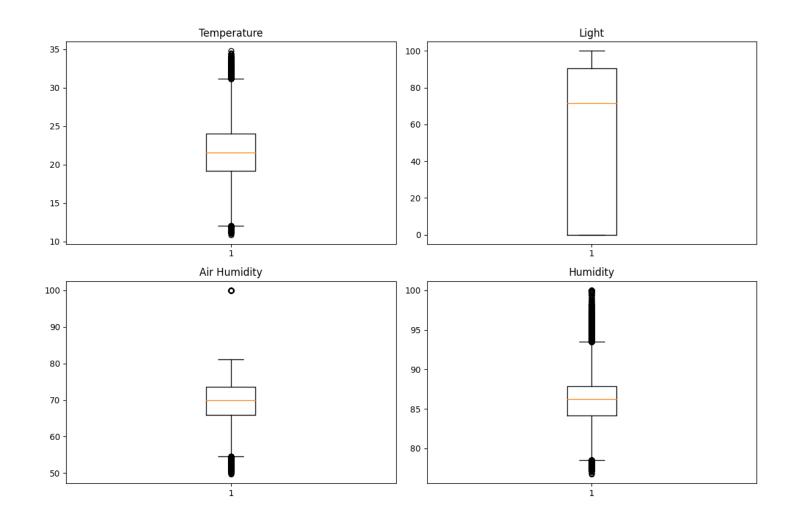




Al Module

Approaches

- Anomaly detection
- Forecast
- Build our models: SVM,
 Random Forest, KNN,
 XGBoost, Logistic
 Regression, and AdaBoost

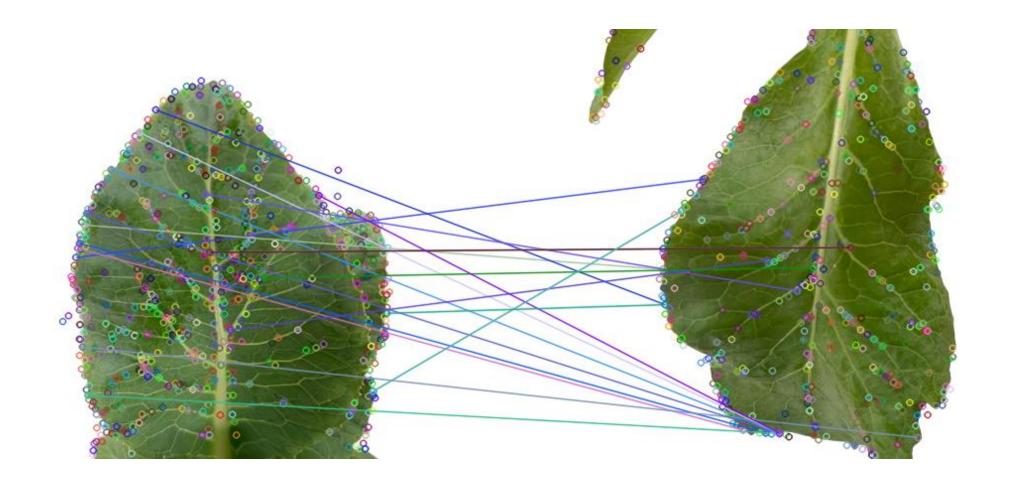


Power of Descriptors

- SIFT
- Key Point
- Oriented Fast and Rotated Brief (ORB)
- Brask







Why Choose Us





Our platform constantly collects data from sensors within your plants, ensuring you stay connected to their vital signs



Al Power Predictions

Leveraging artificial intelligence, we analyze the collected data to predict whether your plants need watering



Precision Plant Care

Move beyond traditional care routines, and automate your watering system