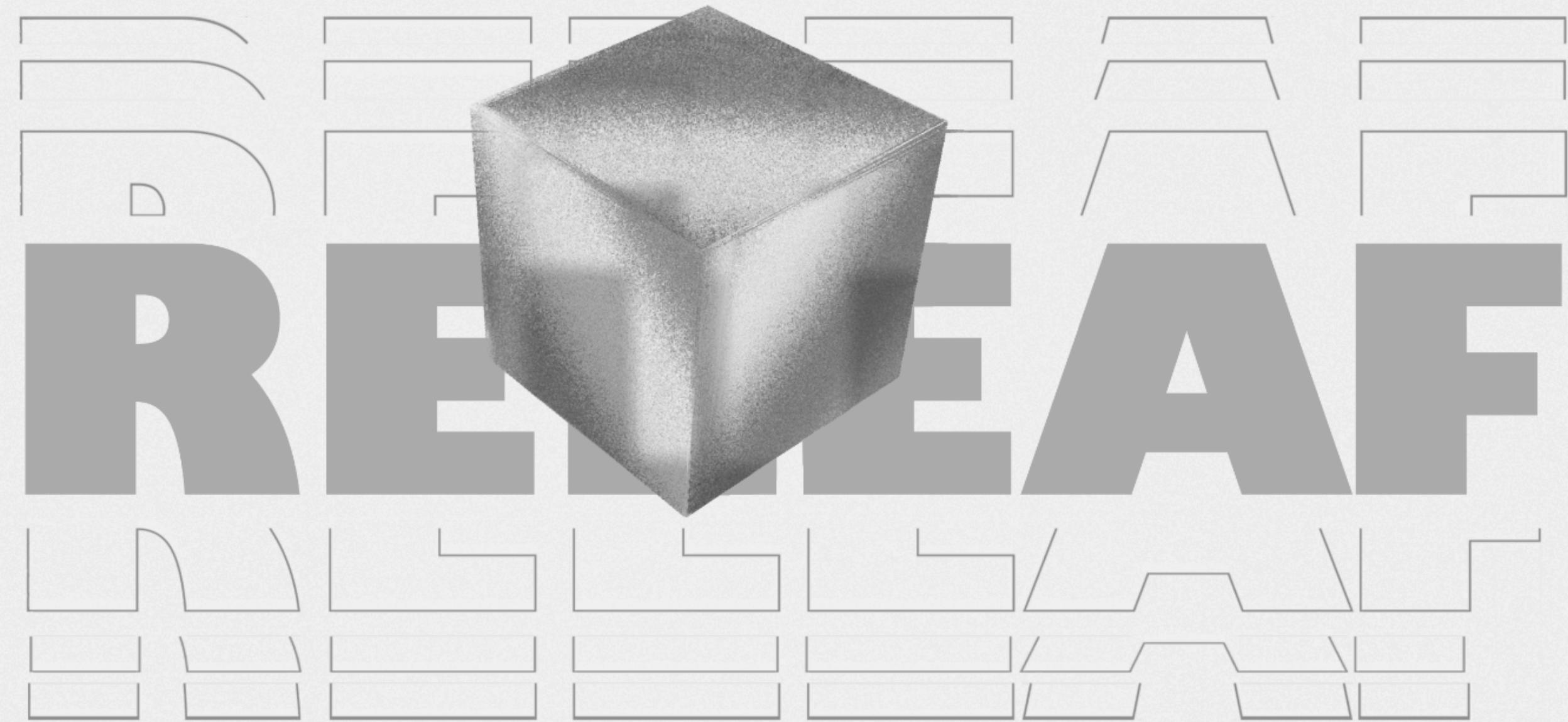


Releaf

AI-Driven Indoor Plant System

Releaf - Nature Without the Effort. Your Intelligent, Automated Plant Care System



Releaf — Nature, Without the Effort. Your Intelligent, Automated Plant Care System

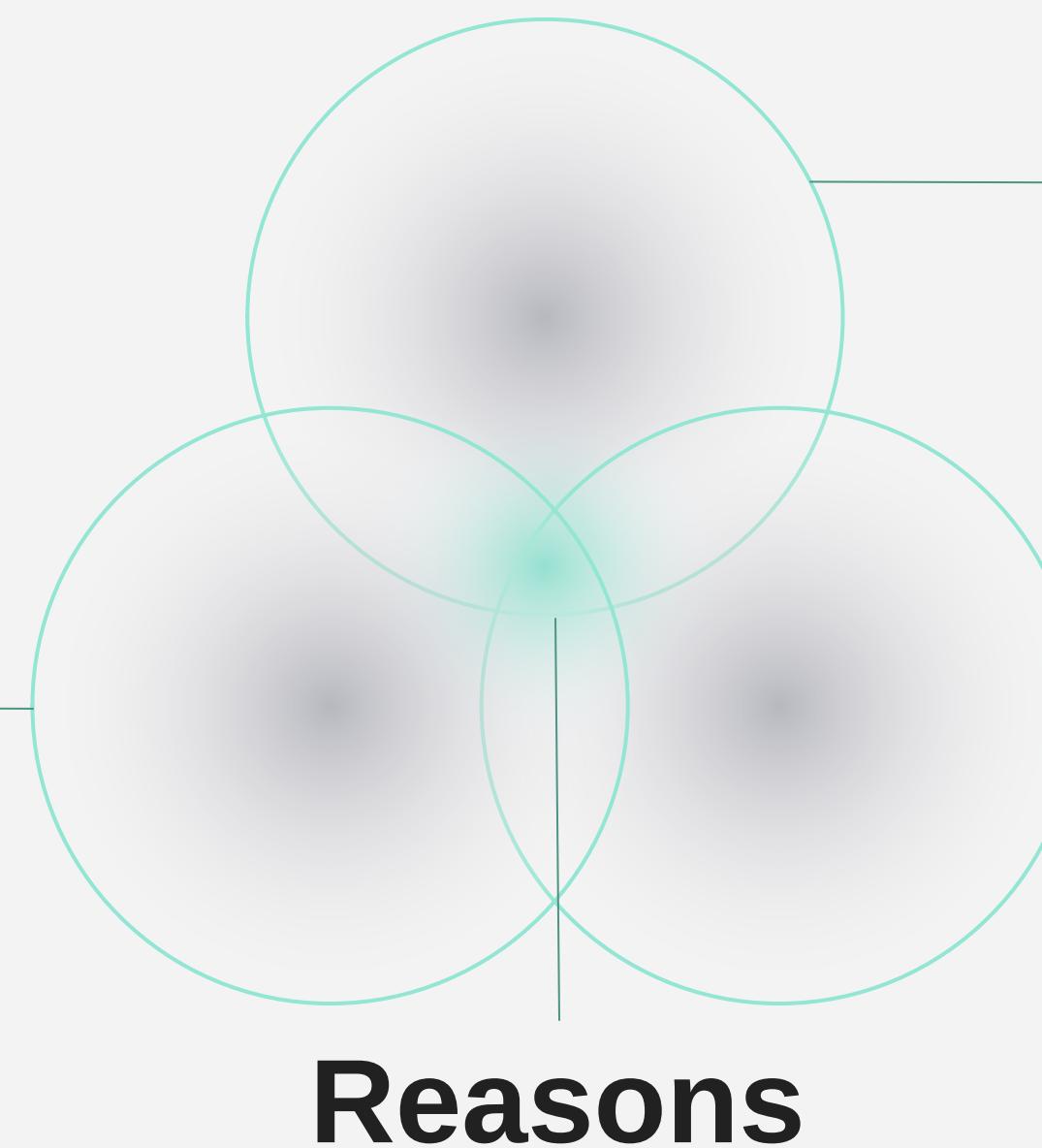
Try Releaf

Why Plant Care Matters?

**59% of diners
will pay more**

for meals with
homegrown or local
greens

Sustainable Restaurant
Association (UK), 2015; Packaged
Facts US Survey, 2014



+15% productivity

in offices with plants

Nieuwenhuis et al., Journal of
Experimental Psychology: Applied, 2014

**-37% reduction
in anxiety level**

in rooms with plants

University of Technology
Sydney, Burchett et al., 2010

Target Audience

**Home plant
owners**



**Restaurants with
kitchen gardens**



**Schools & urban
garden projects**



Introducing Releaf

Releaf

Effortless Plant Care. For Everyone.

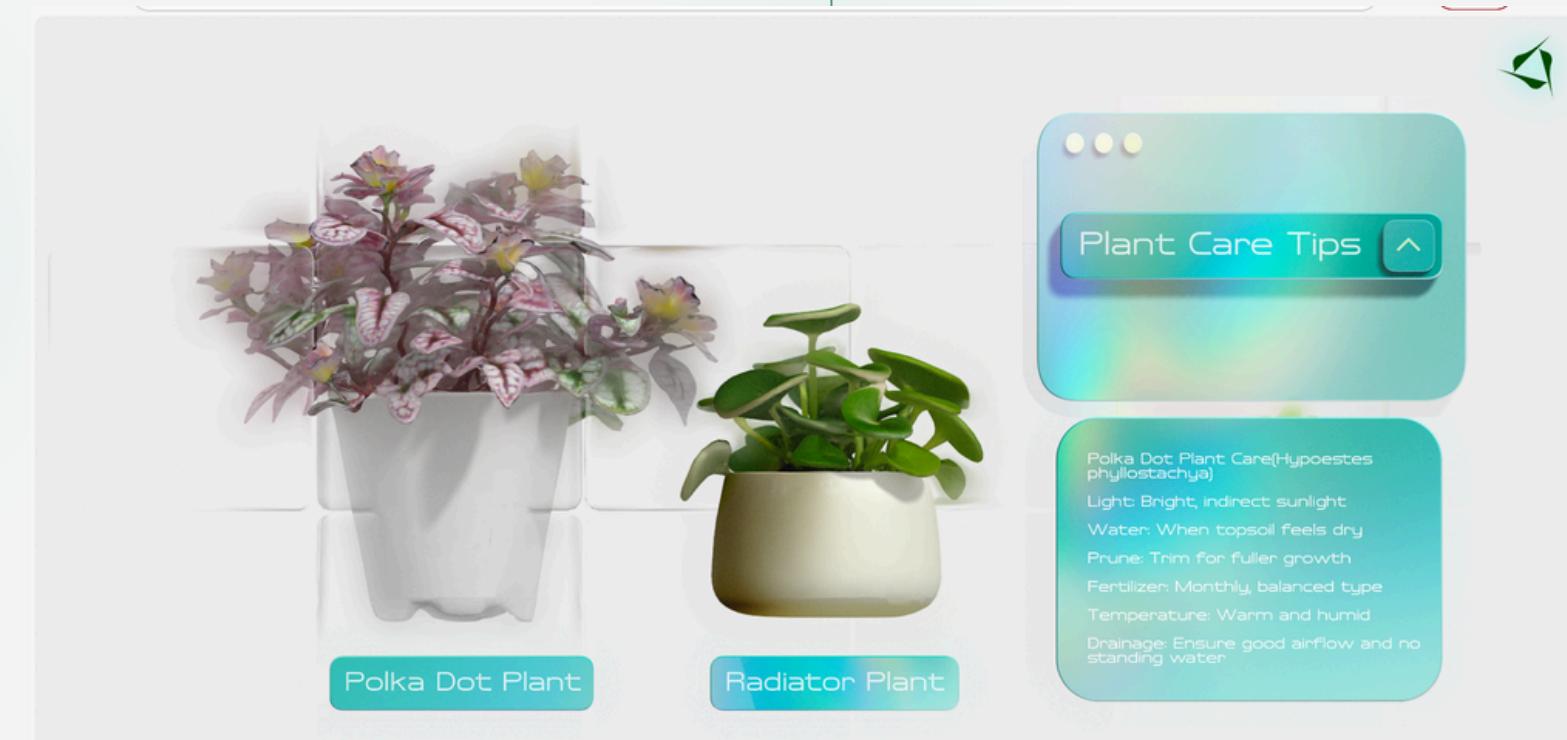
Smart Hardware

It auto-waters, senses, monitors your plant health, and switches on the light for optimal growth.



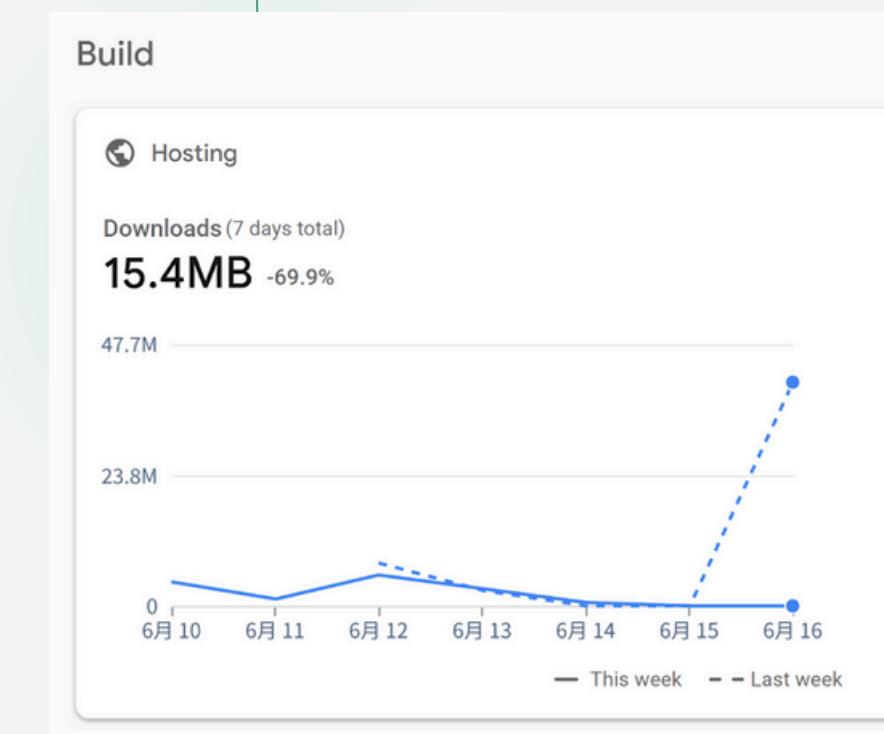
Web App

From scan to care — tracks, reminds, and guides with tailored care.



Cloud AI

It grows smarter — tracking stages, spotting threats.

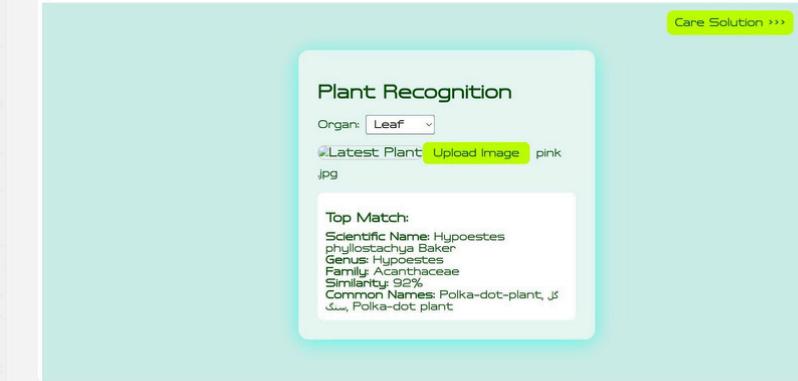


Software User Journey

Releaf



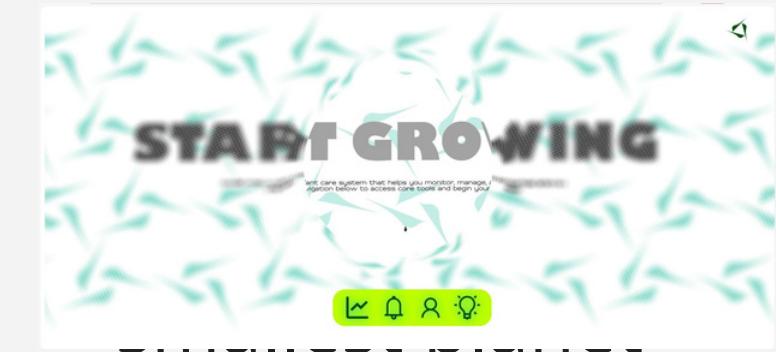
Sign In



Recognition



Care Solution



Home



User Profile



Outdoor Weather



Dashboard



Plant Status

Hardware in Action

01 ESP32 Controller

WiFi-enabled microcontroller that reads sensor data, runs logic, and communicates with the backend.

02 Sensor and Input Devices

Collects environmental and visual data.

Moisture sensor + Camera module

03 Output and Feedback Devices

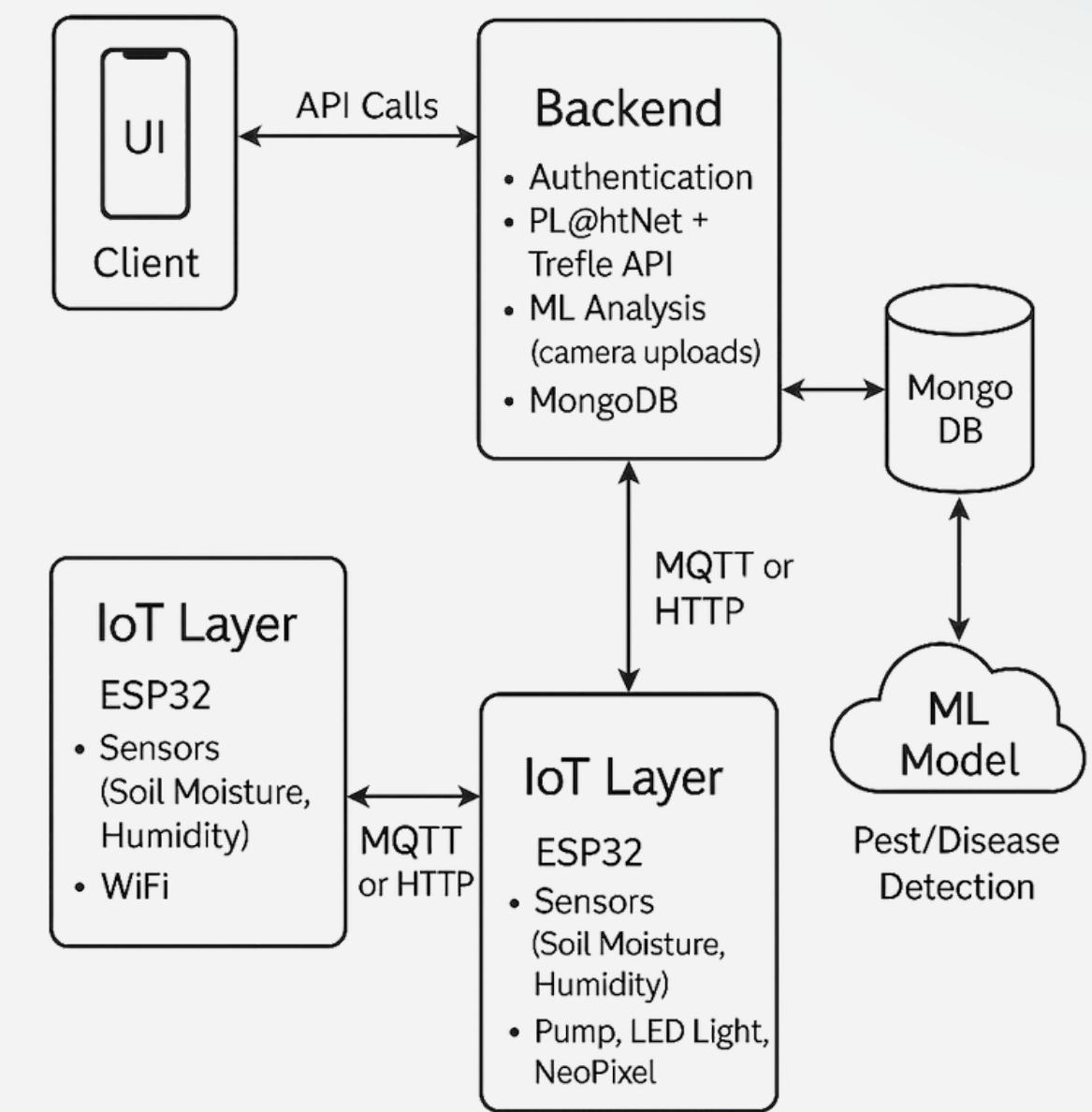
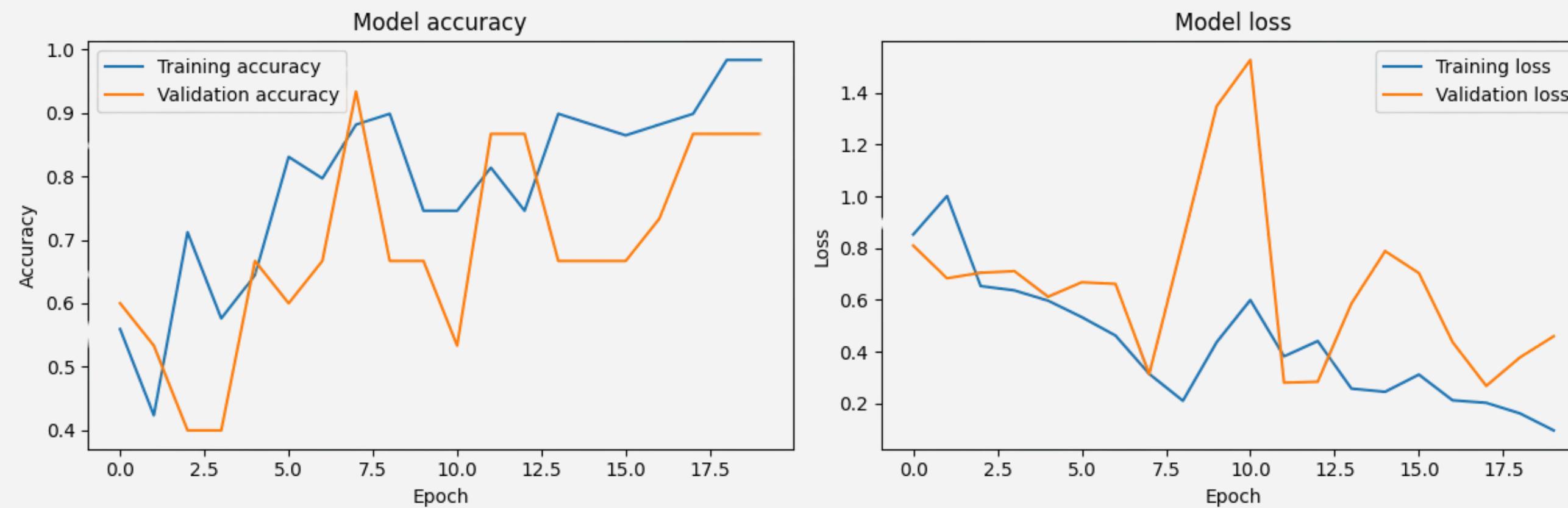
Showing plant health and taking action.

Water pump + LED Grow light + NeoPixel matrix display

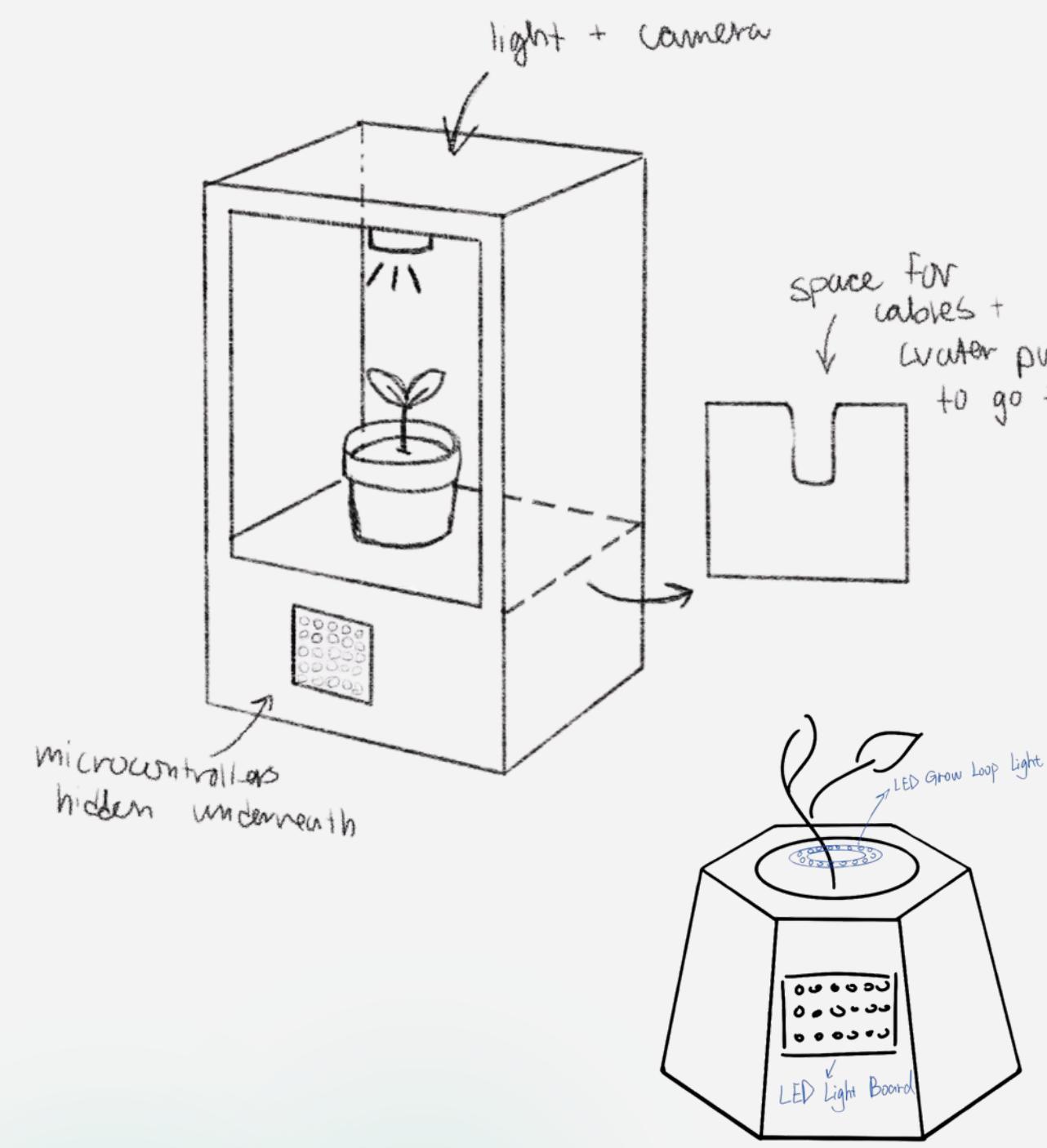
04 AI-Driven Decision Logic

Software intelligence tied to hardware.
Ai model classifies plant health based on screening

Backend and Ai System



From sketch to a Smart Box



Sketch

Prototype(s)



Final Product

Podcast Trailer



Live
demo



Thank you!

We'd love to hear your thoughts, feedback, or questions!

Msc Data Science + Msc Computer Science UAL CCI 2025

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