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AGRO.AI

CULTIVATING TOMORROW'S HARVESTS WITH DATA-DRIVEN PRECISION

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PROBLEM STATEMENT



Monitoring and management of
Soil fertility,
Rate of water,
Crop growth,
Macro and micro nutrients using IoT,
ML and using sensors for the
farmers

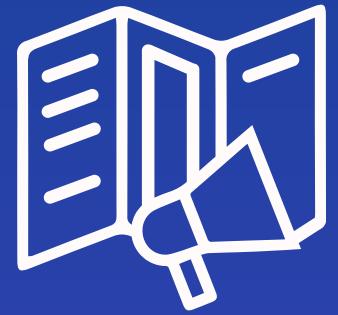


Predicting yield
Crop Selection
Smart Irrigation



SOLUTION

Implementing an integrated system for soil fertility testing, assessing atmospheric conditions to recommend suitable crops, monitoring and managing crop health through irrigation and disease prediction, and predicting crop yield and profitability.



**Testing the
fertility of soil,
atmospheric
conditions to
suggest the crop
to be planted**



**Maintenance and
monitoring crops –
Irrigation, disease
prediction**



**Prediction of crop
yield and profit or
loss**



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TECH STACK

HARDWARE

Sensors used - pH
Moisture
Temperature
Humidity
Air quality
Sunlight intensity
Conductivity
Rain deduction
Water level
Micro processor used-Arduino mega

SOFTWARE

Frontend - html, css, js,
react, material.ui
Backend - python, django
Api-Rest



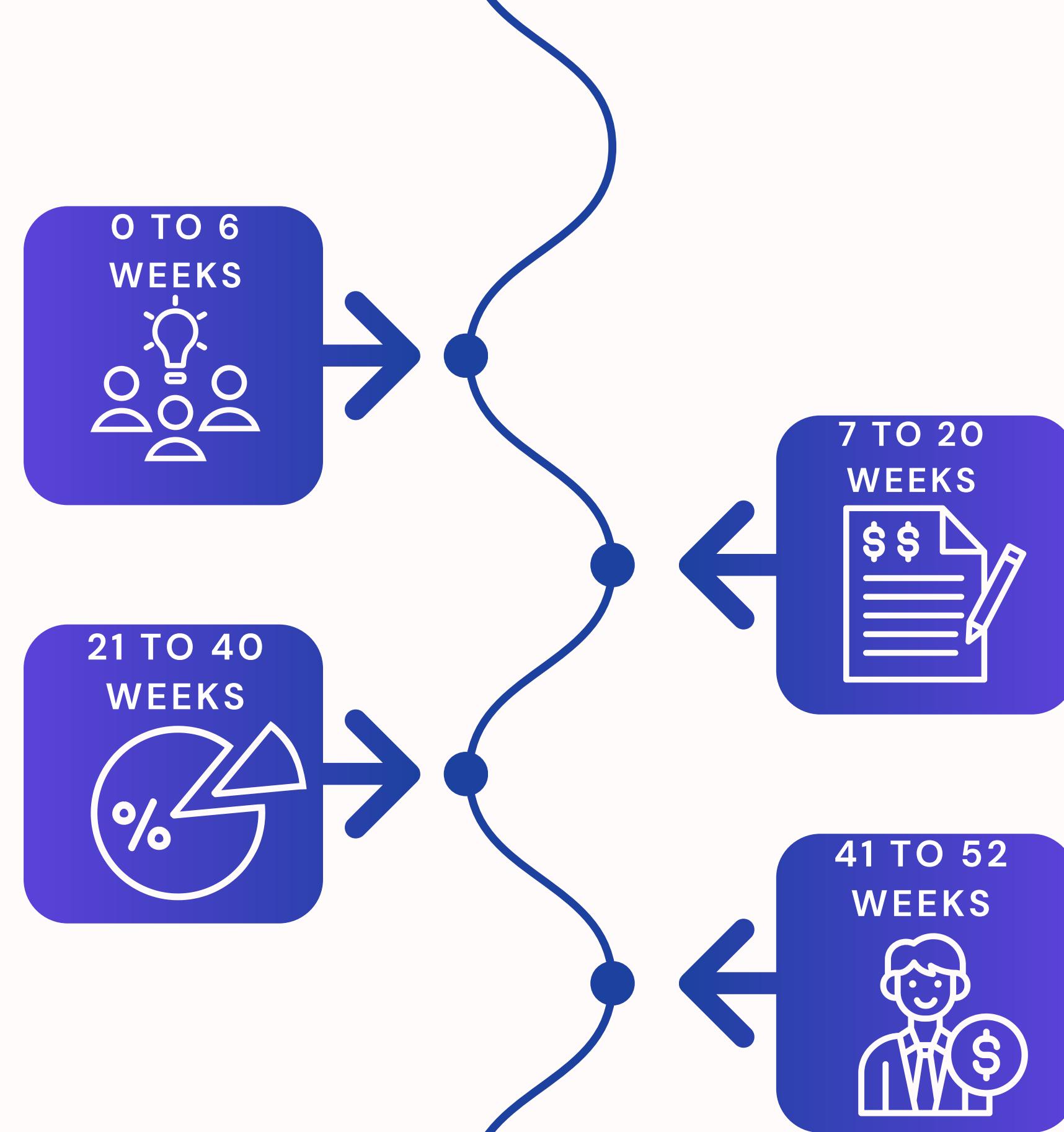
PROJECT TIMELINE

**Business plan,
Ideation and Field
study**

**Integration and
evaluation**

**Hardware and
software
prototype**

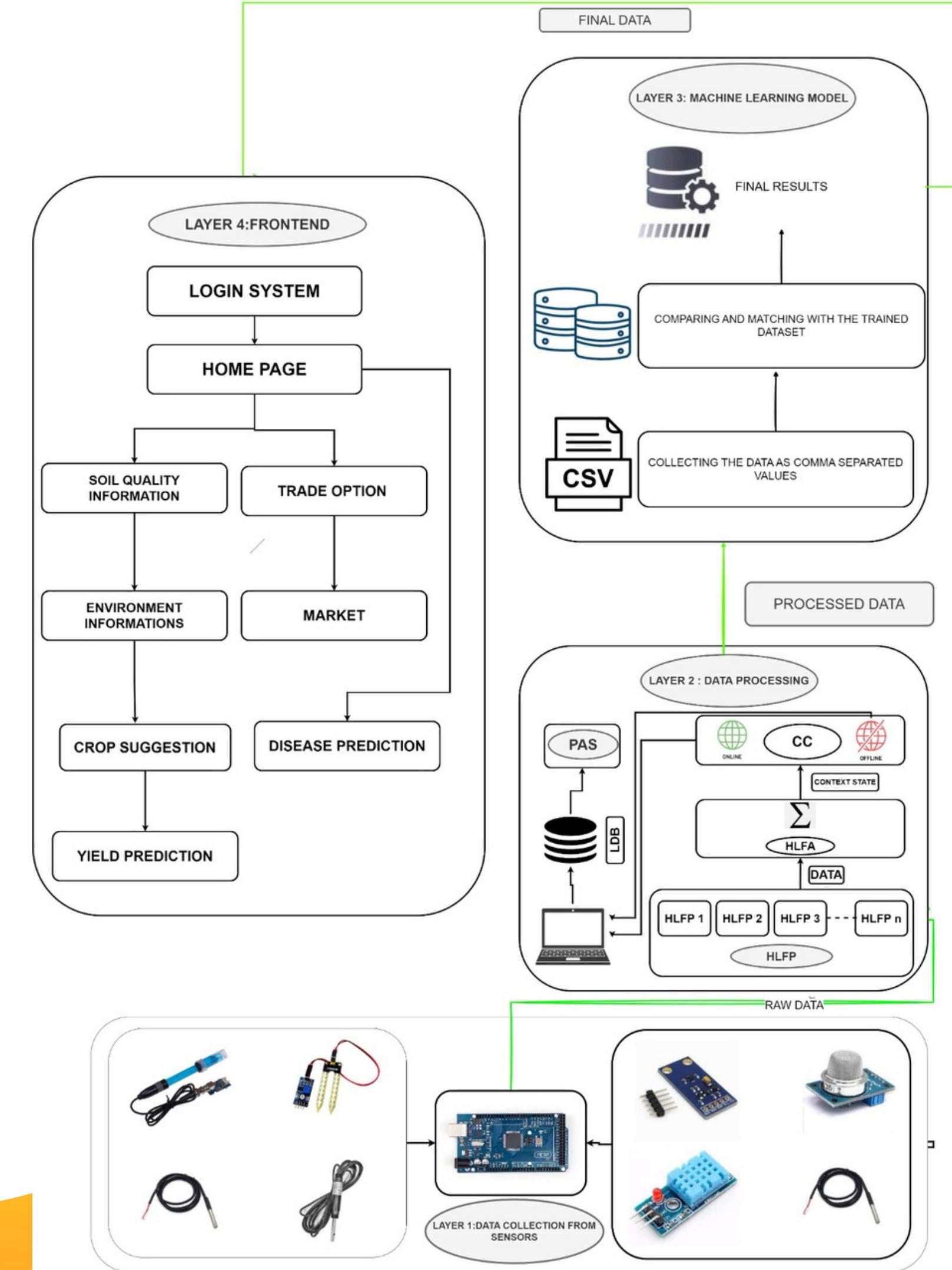
**Minimum Viable
Product**





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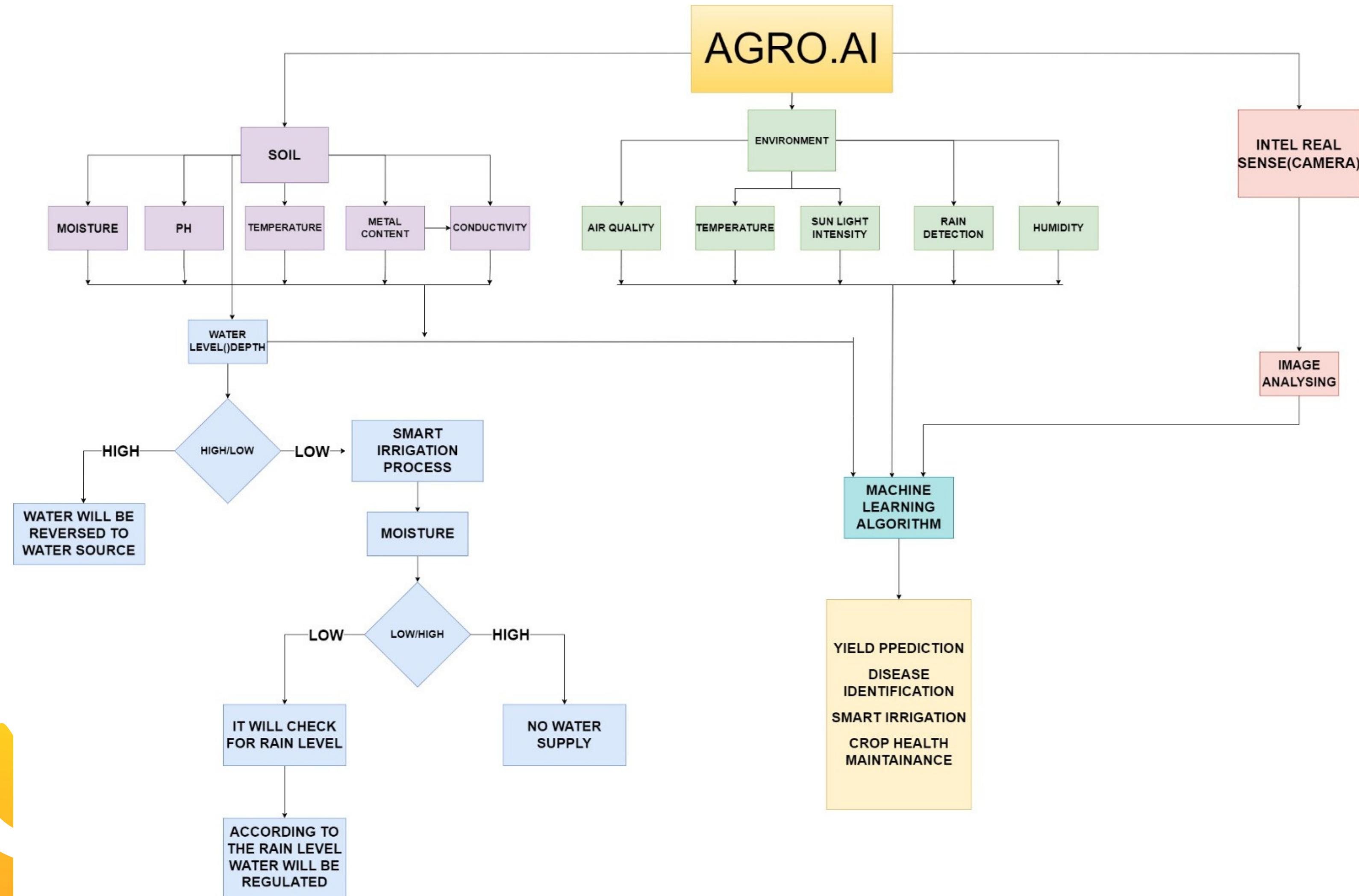
ARCHITECTURE





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FLOWCHART





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VALUES

01

Objective

To facilitate farmer with our technology for the cultivation

02

Scope

Specializing in IoT, ML, and sensor technologies provide holistic support to farmers, enhancing soil fertility, water management, crop health, and pest control, leading to sustainable and high-yield agriculture.

TEAM

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THANK YOU