

Greenhouse Pilot is an AI-powered smart greenhouse that automates climate control, irrigation, and monitoring, enabling year-round, eco-friendly home cultivation with minimal effort.

### **Grow Smarter, Harvest Fresher, Anytime**



**Greenhouse Pilot** for Home Growers is an advanced, AIpowered smart greenhouse system designed for urban and small-scale growers. This intelligent system creates the perfect growing environment by automating temperature control, humidity levels, light exposure, and irrigation. By integrating AI, IoT, and realtime monitoring, it ensures optimal plant growth, maximized yield, and yearround cultivation—making home gardening easier, more efficient, and sustainable.

# **Key Benefits**



Al-Optimized Climate
Control: Regulates
temperature, humidity, and
light for ideal plant growth.

### **Year-Round Cultivation:**

Grow fresh vegetables, herbs, and fruits in any season.



# **IoT-Based Monitoring:**

Track real-time plant health, soil moisture, and environmental conditions via a mobile app.



Automated Watering & Irrigation: Ensures plants receive the right amount of water without manual effort.

### **Pest & Disease Protection:**

A controlled environment reduces the risk of plant diseases and pest infestations.





**Energy-Efficient LED Lighting:** Optimized light cycles enhance growth while reducing electricity costs.



Space-Saving & Modular Design: Ideal for balconies, rooftops, and indoor gardening.

# **Eco-Friendly & Sustainable:**

Reduces water consumption and eliminates chemical pesticide use.







