

# **Green Cart and Smart Gardening Using AI**

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**Abstract:** *Green Cart and Smart Gardening using Artificial Intelligence (AI) is a smart, next-generation device for automating and optimizing the care of plants with intelligent sensing and control. Through the union of AI and Internet of Things (IoT) technologies, the system dynamically gathers data from environmental sensors—soil moisture, temperature, humidity, and light intensity—making real-time decisions on watering, lighting, and fertilizing.*

*The system is remotely controlled and accessed through a web or mobile app, providing users with real-time information and control of their garden. The smart garden solution not only enhances plant health and yield but also conserves water and energy, providing an easy-to-use and environmentally friendly solution to home gardeners and commercial growers. The project illustrates the future of AI-powered automation in sustainable agriculture and smart home systems..*

**Keywords:** AI-based Smart Garden, AI-based Decision Making, Remote Garden Management, Wireless Sensor Network, Mobile Application Control

