Project Name: Sustainable Urban Farming

Project ID: PID003

Team Members:

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Abstract:

The "Sustainable Urban Farming" project seeks to address the challenges of food security and environmental degradation in urban areas. By promoting vertical farming and hydroponic systems, the project aims to maximize agricultural output within limited spaces while minimizing water usage and environmental impact.

Our system integrates IoT sensors to monitor plant health, soil conditions, and nutrient levels in real time. The use of AI-powered analytics ensures optimal resource allocation, leading to higher yields and reduced waste. The project also incorporates renewable energy sources like solar panels to power the farming infrastructure, further enhancing its sustainability.

This initiative not only provides a viable solution for urban dwellers but also raises awareness about sustainable agricultural practices. By combining technology with environmental stewardship, "Sustainable Urban Farming" paves the way for a greener and more self-reliant future.