

Cultivating the Future: "Vertical Farming: Solving Space Issues in Small Homes"

(Science)





Big questions

Could vertical farming serve as a remedy for limited access to nature and environmental concerns? Additionally, can the implementation of green housing practices contribute to an improved environment?

Importance of the research

The "Cultivating the Future: 'Vertical Farming: Solving Space Issues in Small Homes" project embarked on a mission to address the challenges faced by urban high-rise apartment dwellers. Through extensive research and practical initiatives, it aimed to enhance living standards by introducing innovative solutions like vertical farming. This approach not only addresses the searcity of green spaces but also tackles environmental concerns, promotting a sustainable lifestyle

Objectives of the research

To explore vertical farming's potential in improving urban living conditions by reintroducing green spaces and promoting sustainability.



Suggested Solutions

Access to Nature
Environmental Sustainability
Improved Air Quality
Social Interaction
Promoting Sustainable Lifestyles

Selected Solution

'Limited Community Spaces' are among the most impactful challenges, suggesting they are significant concerns for residents of urban apartments. 'Infrastructure Challenges' appears to be the least impactful based on this visualization, but it still registers as a notable concern



Procedures

Involved in-depth research, practical initiatives, and community participation, including immersive experiences at Expo Oordreo and consultations with industry experts

Graphs / Charts



feasilist. The projects findings indicate that vertical farming can significantly mitigate urban living callenges by enhancing air quality, promoting community involvement, and supporting sustainable living habits. The implementation phase within a school premise showcased vertical farming's docuctional and sustainable food source potential. Thes outcomes align with Quart's Vision 2000, emphasizing knowledge enrichment, community awareness, and technolosical morroress.

evaluate their impact and feasibility.

Curriculum Integration: Integrate vertical farming concepts into the educational curriculum to foster awareness and technical knowledge ar

students.

Community Engagement: Encourage ongoing community participation and engagement through workshops, seminars, and social media.

Educational Outreach: Extend outreach efforts to inform and involve the seminary of the seminary of



Sharing

Community Gatherings:
School Newsletter:
Social Media Highlights:
Parent Information Sessions:
Student Presentations:
DIY Vertical Farming Kits:
Community Garden Collaboration with Our
Partner Schools



References

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vertical-farming/ https://www.linkedin.com/pulse/how-ai-managedvertical-farming-coming-michael-spencer-xnxwc/ https://www.researchgate.net/publication/319248372 Opportunities and Challenges in Sustainability of Vertical Farming A Review







