

Dual Battery System in EV	
BRANCH	Artificial intelligence and machine learning
PROJECT GUIDE	Dr. JALAJA G
TEAM MEMBERS	<ol style="list-style-type: none"> 1. Sathya Pushana Pramod 2. Tejas Krishna A S 3. Ankitha D 4. Veerendra 5. Namagundla Krishna Chaitanya 6. Ramyashree

INTRODUCTION
<p>Our project presents a cutting-edge electric vehicle. (EV) with a dual-battery system that ensures uninterrupted power supply. When one battery depletes, the second seamlessly takes over, offering continuous and efficient EV operation. This innovative technology enhances the reliability and range of EVs, contributing to sustainable and eco-friendly transportation solutions.</p> <p>The principle underlying our innovative dual-battery electric vehicle (EV) system is to ensure uninterrupted power supply, enhance range, and optimize sustainability. The system employs a sophisticated control mechanism that monitors the charge levels of both batteries. When one battery depletes, the system swiftly and seamlessly switches to the fully charged battery, eliminating the need for manual intervention. This process ensures uninterrupted EV operation, reducing range anxiety and increasing confidence in electric mobility. By extending the range and usability of EVs, our principle contributes to sustainable transportation and environmental preservation. Additionally, it underscores the importance of advanced technology to make electric vehicles more practical, efficient, and accessible for a wider audience.</p>
OBJECTIVES
<ol style="list-style-type: none"> 1. Enhance EV reliability 2. Extending EV Range 3. Sustainable Transportation 4. User Convenience 5. Technological Advancement 6. Extended Range Reduced Range Anxiety 7. Environmental Benefits 8. Promotion of Electric Mobility 9. Reliability Convenience 10. Diverse Applications 11. Improved Fleet Efficiency 12. Enhanced User Experience 13. Grid Resilience
PROPOSED METHODOLOGY
<p>The implementation of a dual-battery system in electric vehicles represents a transformative step forward in the world of sustainable transportation. This innovative technology extends the range, enhances reliability, and reduces range anxiety, making electric vehicles more practical and accessible for a wide range of applications. The advantages of dual batteries, including convenience, cost savings, and environmental benefits, further solidify the importance of this advancement. By addressing the key limitations of electric vehicles, this technology paves the way for a future where clean and efficient transportation solutions can play a pivotal role in reducing emissions and promoting a sustainable, eco-friendly future.</p>

UTILITY for SOCIETY, SCALABILITY/ EDUCATIONAL VALUE

UTILITY for SOCIETY:

The societal impact of this project is significant, contributing to the broader goals of sustainable transportation. The implementation of efficient EV technologies reduces carbon emissions, promotes cleaner energy alternatives, and offers potential cost savings for consumers.

SCALABILITY/ EDUCATIONAL VALUE:

The project demonstrates scalability, making it adaptable to various types of EVs and market segments. Its educational value lies in serving as a practical learning tool for students, researchers, and professionals in the field, fostering knowledge transfer and skill development.

SCOPE OF APPLICABILITY IN FUTURE

The project envisions a long-term impact by aligning with the evolving landscape of EV technology. Its adaptability ensures compatibility with future advancements, positioning it as a potential influencer in the future of sustainable transportation and a candidate for integration into mainstream automotive manufacturing.

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