AppraisalEngine

Appraiser Blog

How AI is Being Used to Improve Solar-Powered EVs

By **Tony Rached**

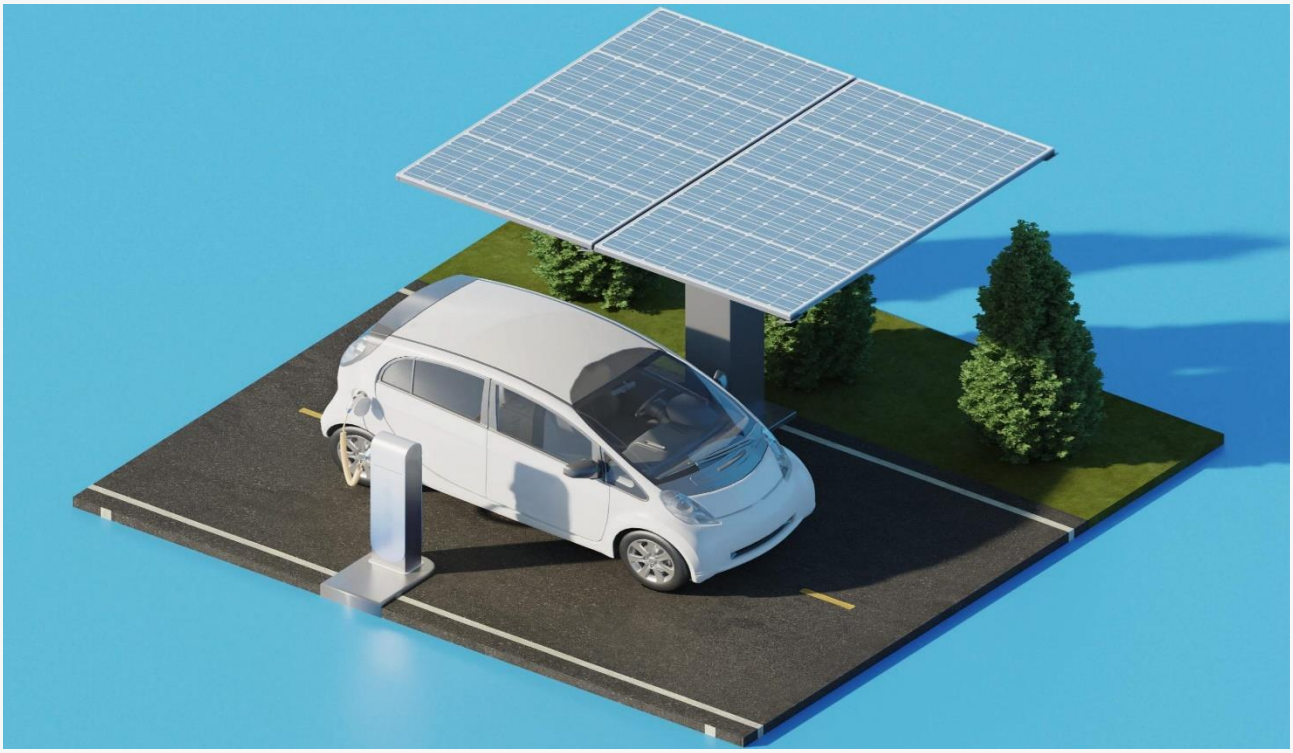
Appraiser Blog

How AI is Being Used to Improve Solar-Powered EVs

Friday, August 25, 2023

Artificial intelligence (AI) is being used to improve the efficiency of solar-powered electric vehicles (EVs). In a recent study, researchers from the Odisha University of Technology and Research in India developed a virtual model that can optimize a solar array's output and control an electric motor's operation.

Check out the full article here: Solar Energy Materials and Solar Cells



The model uses thousands of daily temperature and solar irradiation measurements to determine the optimum resistance of the solar cells. This allows the cells to output their maximum power, even in varying conditions. The model also controls the motor, regenerative braking, and battery pack to ensure the vehicle operates as efficiently as possible.

When Will It Be Available?

This research is still in its early stages, but it has the potential to improve the range and efficiency of solar-powered EVs significantly. If successful, this technology could make solar-powered EVs a more viable option for consumers.

In addition to this research, there are several other companies that are working on developing solar-powered EVs. Lightyear is one such company, and they are currently developing the Lightyear 2, which is expected to be released in 2025. The Lightyear 2 is designed to be the most efficient solar-powered EV on the market, with a range of over 700 miles.

Another company that is working on solar-powered EVs is Sono Motors. Sono Motors is developing the Sion EV, which is designed to have solar panels on every body panel. The Sion EV is expected to have a solar array that can generate up to 17 miles of range per day, and a range of over 200 miles on a full charge.

While there are still challenges to overcome, the development of solar-powered EVs is moving forward. With the help of AI, these vehicles could become a more viable option for consumers in the near future.

To see more EV-related content, check out this other article: Why Are Electric Vehicle Batteries So Expensive?