



## **INSIGHT:**

- The dataset includes 800 charging stations with an average session duration of 99 minutes.
- Among all EV models, the Porsche Taycan has the highest average charging duration.
- The average battery capacity across vehicles is 66.26 kWh. The Audi e-tron has the highest battery capacity, while the Nissan has the lowest.
- Audi e-tron also has a shorter charging duration, indicating efficient energy transfer.
- The average station utilization stands at 51.46%.
- DC Fast charging is the most preferred, followed by Level 2 and Level 1 chargers. DC Fast also has the highest average charging duration.
- There is **no significant difference between completed and failed/aborted charging sessions**. This is a concern and suggests the need for further investigation into **why failures or aborted sessions occur**. A **higher completion rate** should be targeted to ensure customer satisfaction and system reliability.
- Over the **3-month period**, daily data shows consistent fluctuations, indicating variable usage patterns.
- There are **no major differences across payment methods**, suggesting a fairly uniform user experience regardless of how payments are made.
- The Porsche Taycan incurs the highest average charging cost, while the Chevy Bolt has the lowest, with a difference of 18.18%.
- The **Hyundai** model shows the longest charging time but delivers less energy, indicating inefficiency.
- On the other hand, the Audi e-tron delivers the highest energy, reinforcing its strong performance profile.

## **SUGGESTION:**

- **Investigate failed/aborted sessions** to improve completion rates.
- Address inefficiencies in models like Hyundai.
- Optimize station usage through load balancing or dynamic pricing.
- Analyze cost factors for high-cost models like Porsche Taycan.
- Match vehicle types with ideal chargers for better performance.

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