ANALYSIS

This analysis delves into key findings extracted from the vehicle dataset, focusing on various metrics such as motor speed, temperature, vehicle speed, DC current and voltage, AC voltage and current, and charging time left. By examining the relationships between these variables, valuable insights are gained into the performance and behavior of the vehicles.

Key Findings:

1. Motor Speed by Motor Temperature: The count of motor speed by motor temperature reveals patterns in motor performance relative to temperature variations. A graphical representation of motor speed against motor temperature illustrates any discernible trends or correlations.

2. Count of Motor Speed, Vehicle Speed, and Timestamps: Analyzing the count of motor speed, vehicle speed, and corresponding timestamps provides insights into the frequency and distribution of speed measurements. This analysis aids in understanding the consistency and reliability of speed data captured over time.

3. Count of DC Current and Voltage by AC Voltage and AC Current: Examining the relationship between DC current and voltage against AC voltage and current sheds light on the electrical characteristics of the vehicles. By plotting these variables, any dependencies or correlations can be identified, informing maintenance and optimization strategies.

4. First Charging Time Left: The first charging time left provides crucial information about the initial charging status of the vehicles. Analyzing this metric offers insights into the charging behavior and efficiency of the vehicles, aiding in scheduling and management.

By analyzing the key findings from the vehicle dataset, valuable insights have been gained into various aspects of vehicle performance and behavior. These insights can be leveraged to implement targeted strategies for optimization, maintenance, and performance enhancement. Moving forward, continuous monitoring and analysis will be essential to ensure the continued reliability and efficiency of the vehicles.

Sincerely,

SANCHIT MATHUR