

Feature Name	Data Type	Description	Example Values	
vehicle_id	String	Unique identifier for the EV	EV001, EV002	
model_year	Integer	Year of manufacture	2020, 2022	
vehicle_age	Integer	Age of the vehicle in years	2,3	
battery_voltage	Float	Battery voltage in volts	365.2, 348.7	
battery_current	Float	Battery current in amperes	12.5, 15.3	
battery_temperature	Float	Battery temperature in °C	35.2, 45.0	
battery_health	Percentage	Battery health status (0-100%)	95%, 60%	
charging_cycles	Integer	Total number of charge cycles completed	300, 550	
state_of_charge (SOC)	Percentage	Battery charge level (0-100%)	85%, 40%	
state_of_health (SOH)	Percentage	Battery's overall condition (0-100%)	95%, 65%	
motor_temperature	Float	Motor temperature in °C	60.2, 70.1	
motor_current	Float	Motor current draw in amperes	50.3, 63.2	
motor_rpm	Integer	Motor rotations per minute	4200, 3000	
motor_efficiency	Percentage	Motor efficiency (%)	92%, 75%	
ambient_temperature	Float	External temperature in °C	25.3, 30.5	
humidity	Percentage	Environmental humidity level (%)	45%, 60%	
altitude	Float	Elevation in meters	150, 400	
speed	Float	Vehicle speed in km/h	80.0, 50.0	
acceleration	Float	Acceleration in m/s²	2.5, 1.8	
distance_traveled	Float	Total distance covered in km	12000, 54000	
energy_consumed	Float	Energy usage in kWh	22.5, 15.3	
voltage_fluctuation	Boolean	Abnormal voltage patterns detected?	True, False	Y
temperature_spike	Boolean	Unsafe battery/motor temperature recorded?	True, False	Y
overcurrent_alert	Boolean	Excessive current detected?	True, False	Y
charging_anomaly	Boolean	Irregular charging patterns observed?	True, False	Y
battery_failure	Boolean (Target)	Predicted battery degradation/failure	True, False	Y
motor_failure	Boolean (Target)	Predicted motor failure status	True, False	Y
system_health_status	Categorical	Overall system status (Healthy, Warning, Critical)	"Healthy", "Warning"	Y