# Car Rating Calculation:

# The car rating calculation is based on fuel efficiency, engine size, horsepower, torque, mileage, price, the year it was made, and

# the number of previous owners.

# all factors are normalized

# All relevant factors (fuel economy, engine(cc), horsepower, torque(Nm), mileage, price, year made, ownership)

# normalized to a scale of 0 to 1 using Min-Max scaling.

# This ensures that each factor contributes proportionally to the final score.

# Higher values in fuel\_economy, horsepower, torque(Nm), and year\_made contribute positively to the car's rating, indicating better

# fuel efficiency, more power, and a newer model.

# Higher values in engine(cc), mileage, price, and ownership detract from the rating, as they suggest a larger, less efficient engine,

# more wear and tear, higher cost, and more previous owners.

# The score is calculated by summing the positive contributions and subtracting the negative ones. The result is then normalized to a 0-100 scale

# for easy interpretation.

# The final car ratings column reflects the overall desirability of each car, with higher scores indicating a better combination of efficiency, performance, and value.

# This calculation allows you to rank and compare cars based on a balanced evaluation of their key features.