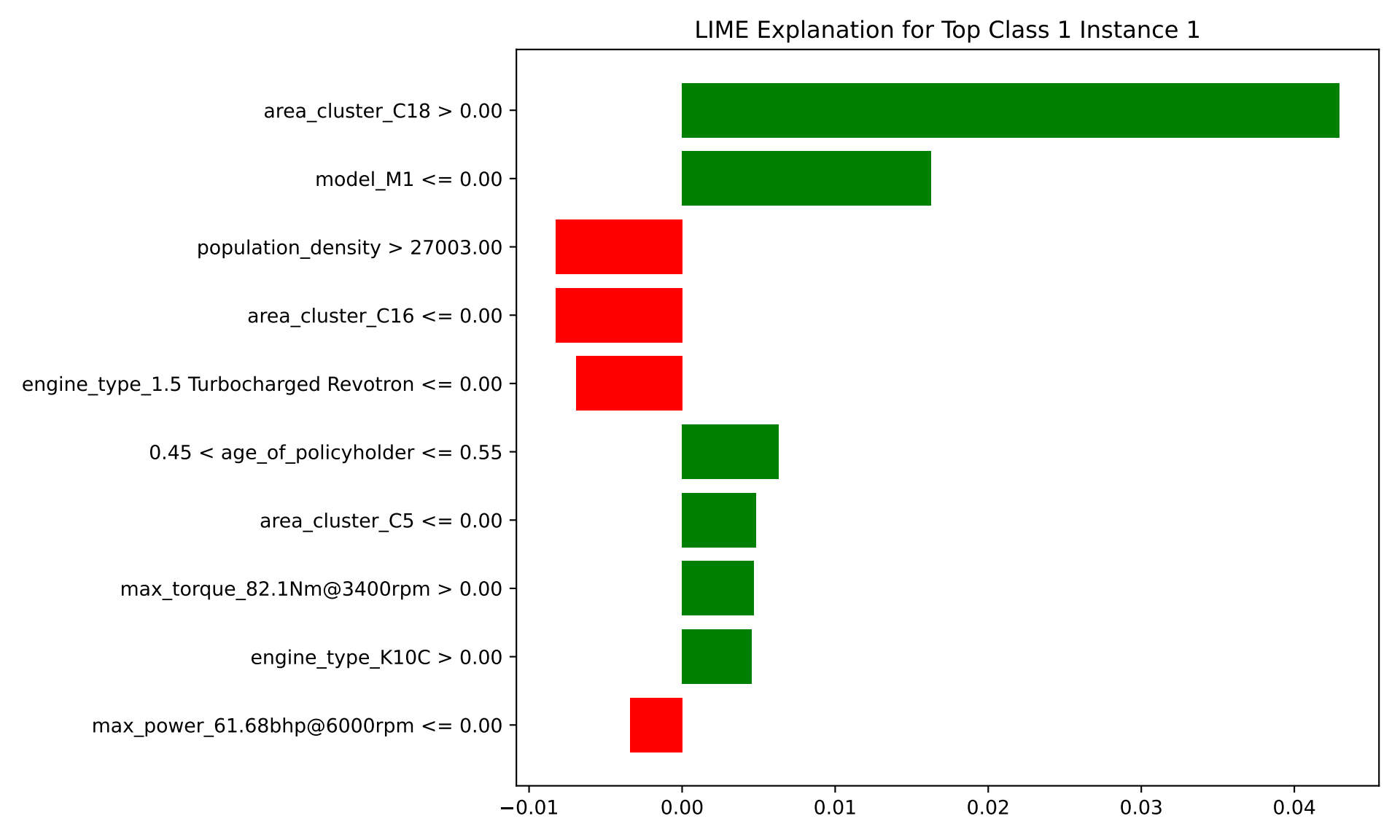
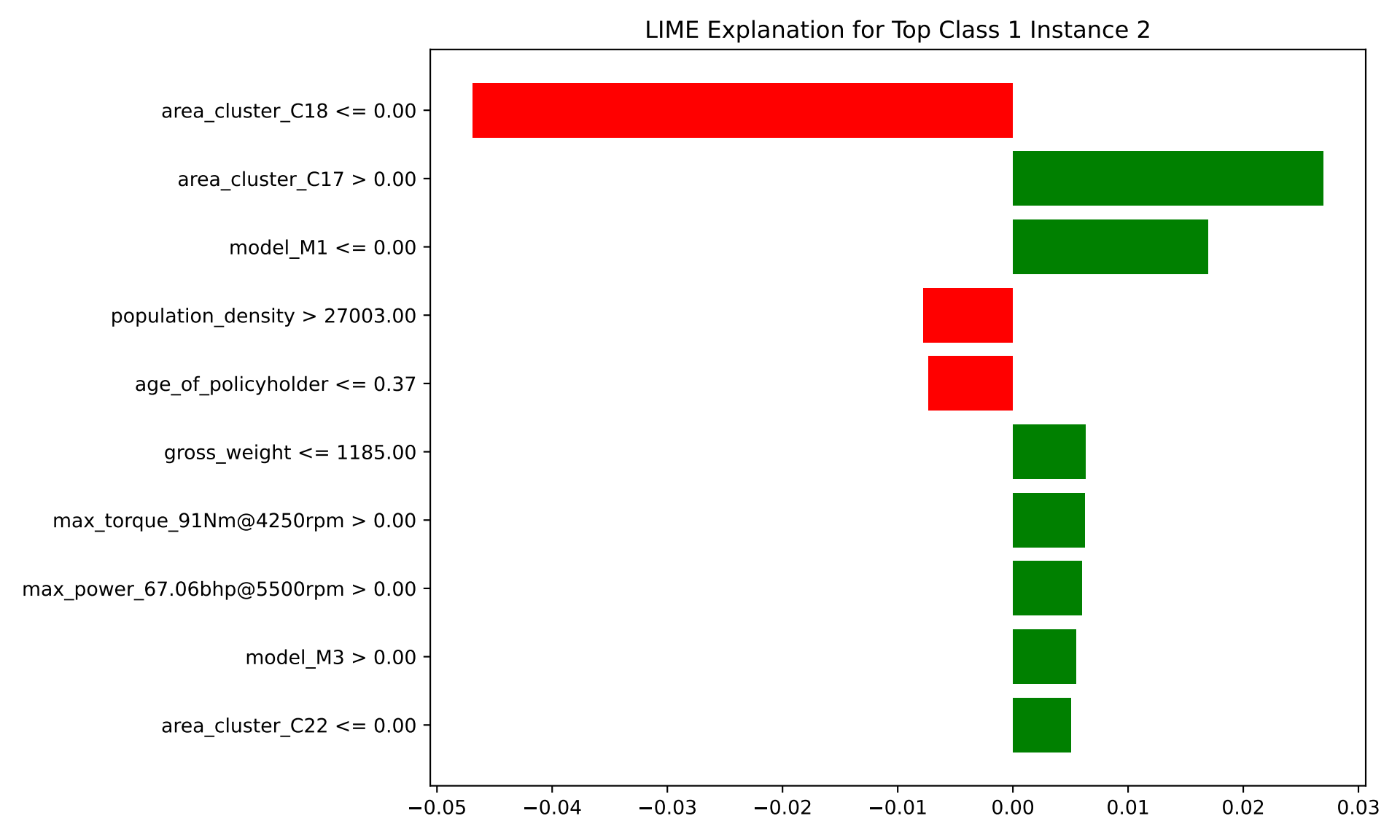
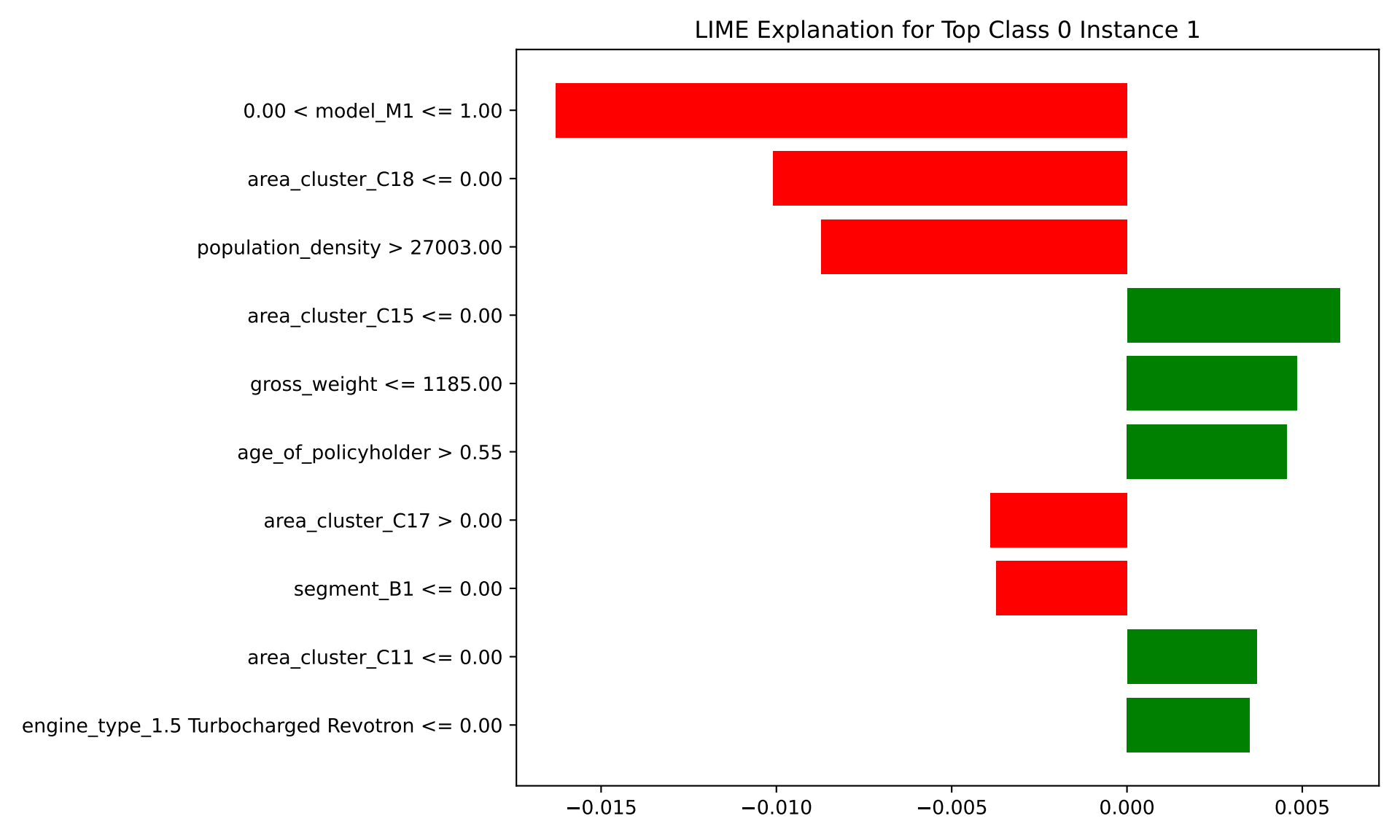
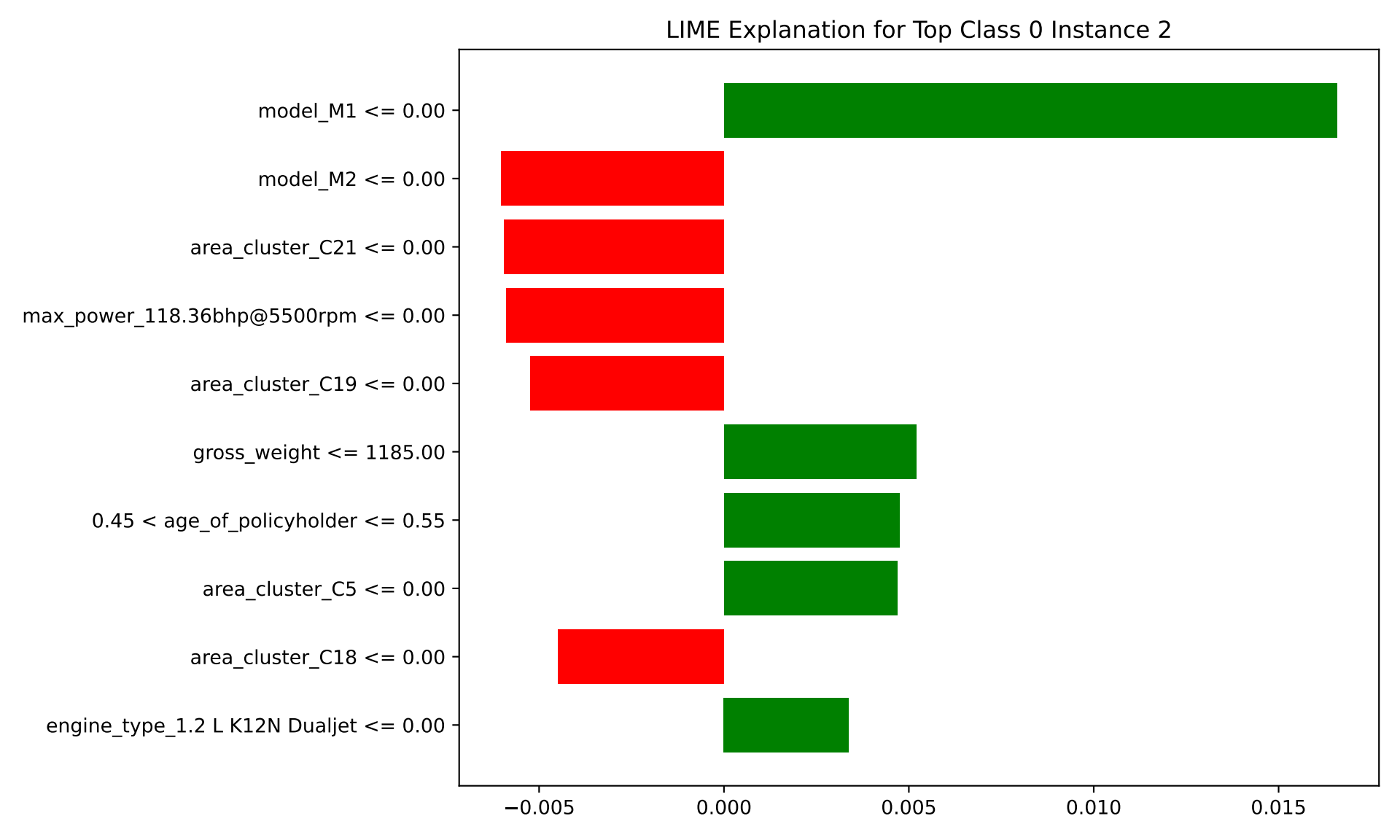
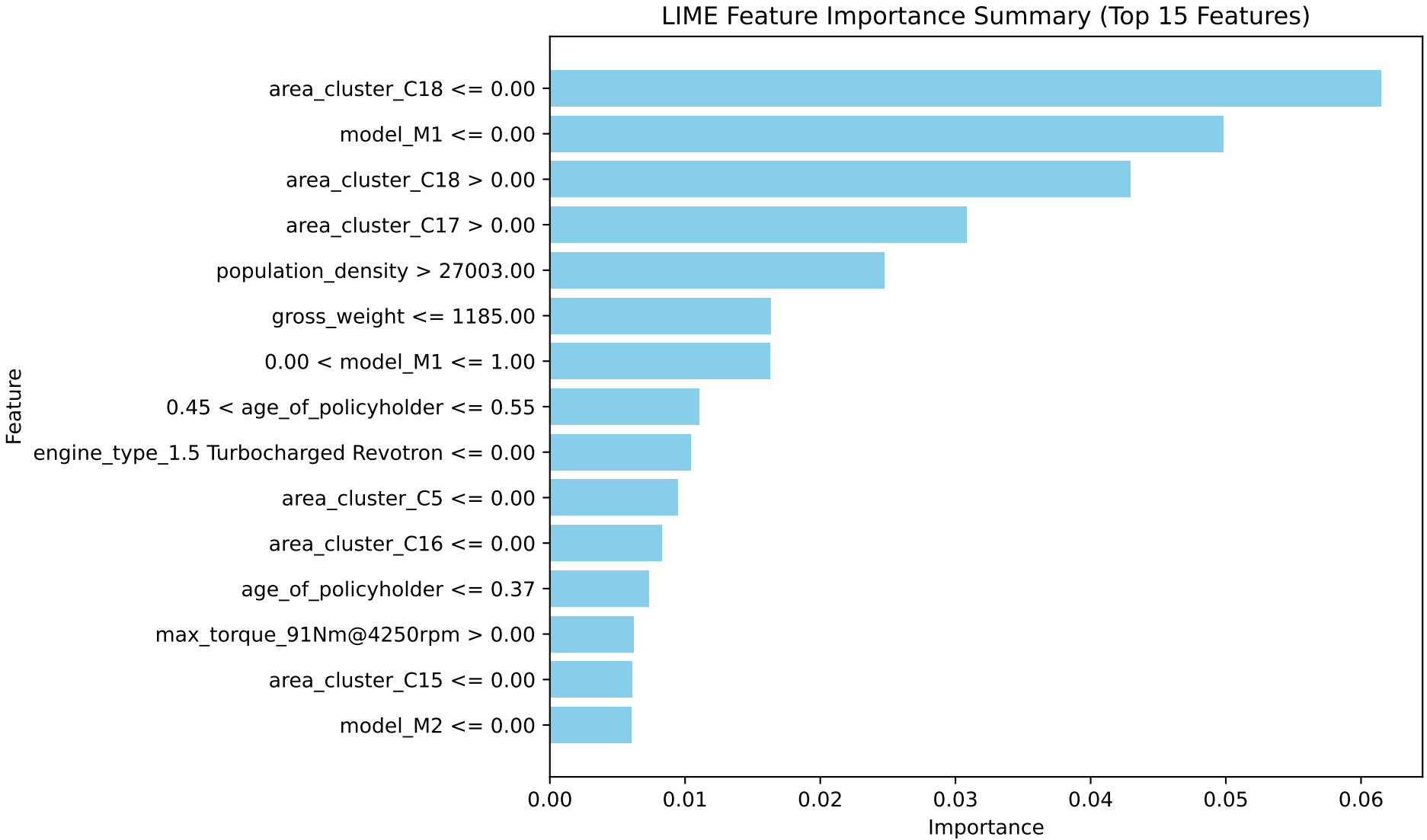
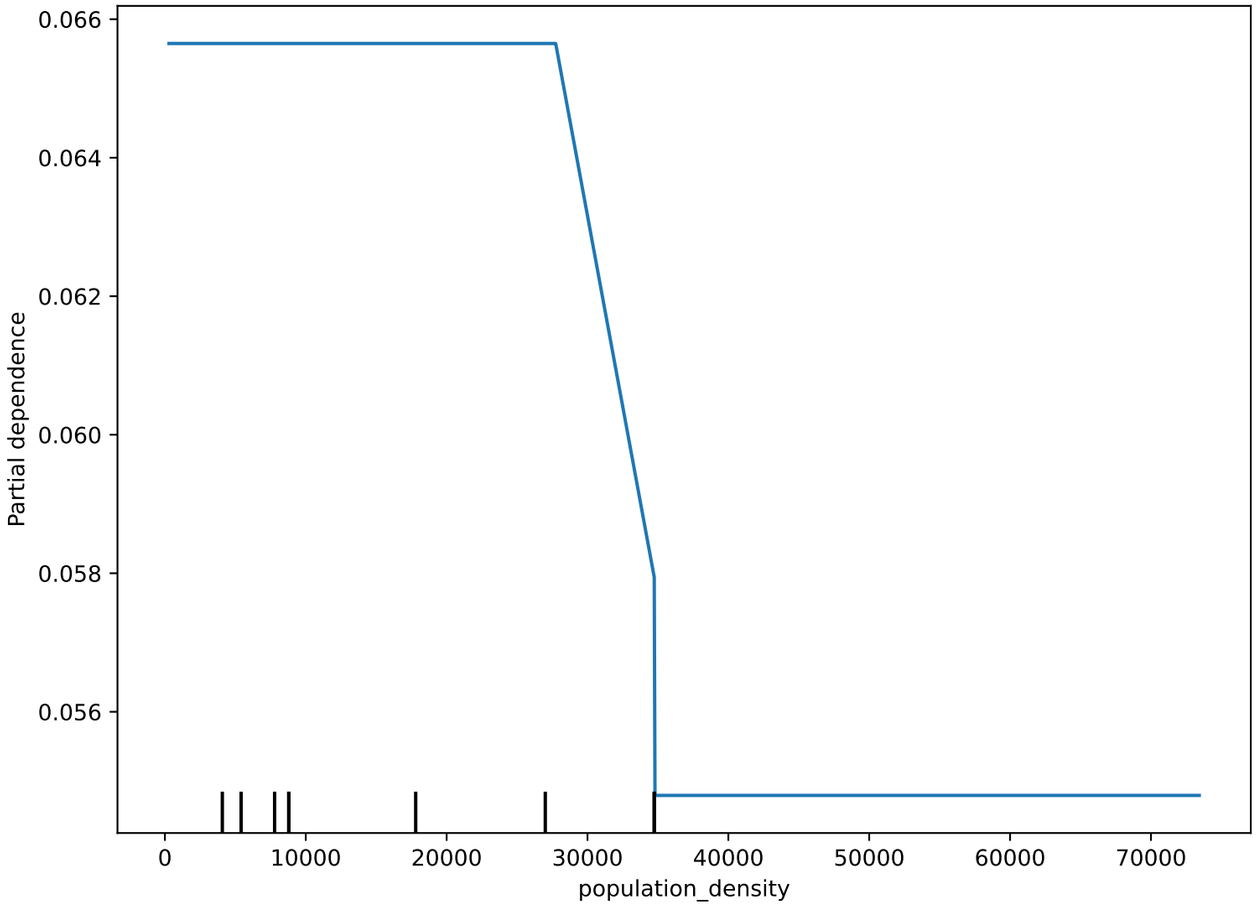

LIME Explanation for Top Class 1 Instance 1
area_cluster_C18 > 0.00
model_M1 <= 0.00
population_density > 27003.00
area_cluster_C16 <= 0.00
engine_type_1.5 Turbocharged Revotron <= 0.00
0.45 < age_of_policyholder <= 0.55
area_cluster_C5 <= 0.00
max_torque_82.1Nm@3400rpm > 0.00
engine_type_K10C > 0.00
max_power_61.68bhp@6000rpm <= 0.00
−0.01
0.00
0.01
0.02
0.03
0.04

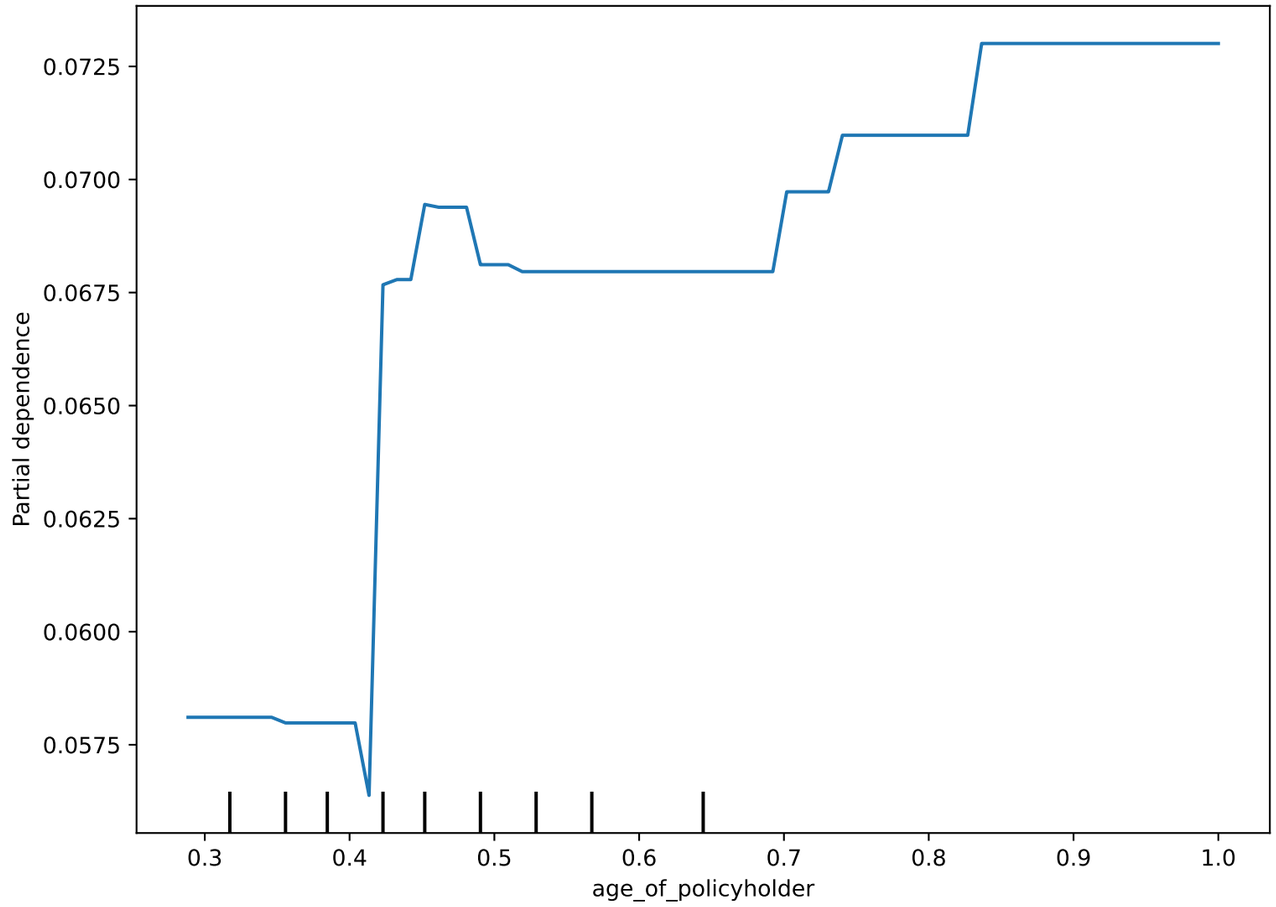

LIME Explanation for Top Class 1 Instance 2
area_cluster_C18 <= 0.00
area_cluster_C17 > 0.00
model_M1 <= 0.00
population_density > 27003.00
age_of_policyholder <= 0.37
gross_weight <= 1185.00
max_torque_91Nm@4250rpm > 0.00
max_power_67.06bhp@5500rpm > 0.00
model_M3 > 0.00
area_cluster_C22 <= 0.00
−0.05
−0.04
−0.03
−0.02
−0.01
0.00
0.01
0.02
0.03

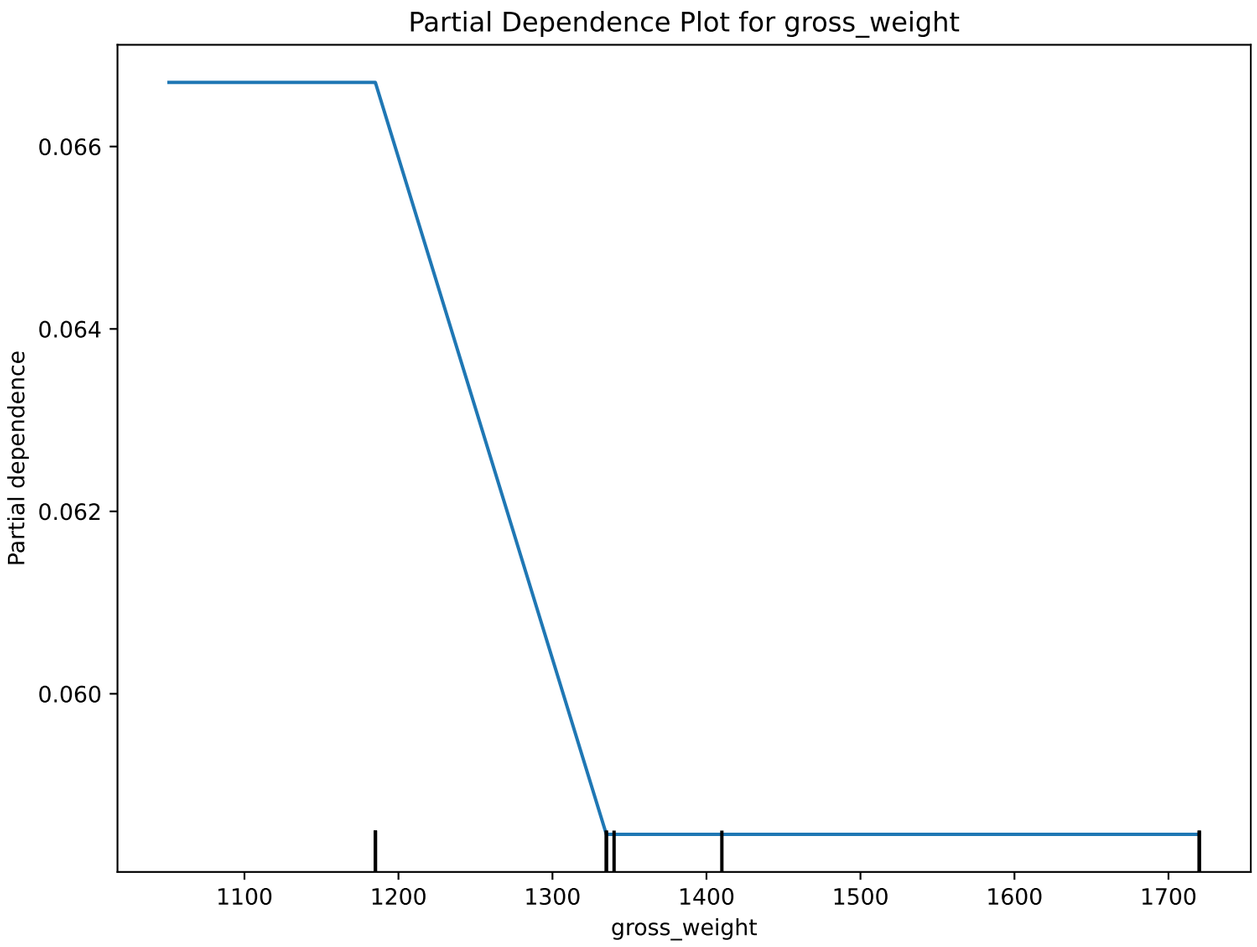

LIME Explanation for Top Class 0 Instance 1
0.00 < model_M1 <= 1.00
area_cluster_C18 <= 0.00
population_density > 27003.00
area_cluster_C15 <= 0.00
gross_weight <= 1185.00
age_of_policyholder > 0.55
area_cluster_C17 > 0.00
segment_B1 <= 0.00
area_cluster_C11 <= 0.00
engine_type_1.5 Turbocharged Revotron <= 0.00
−0.015
−0.010
−0.005
0.000
0.005

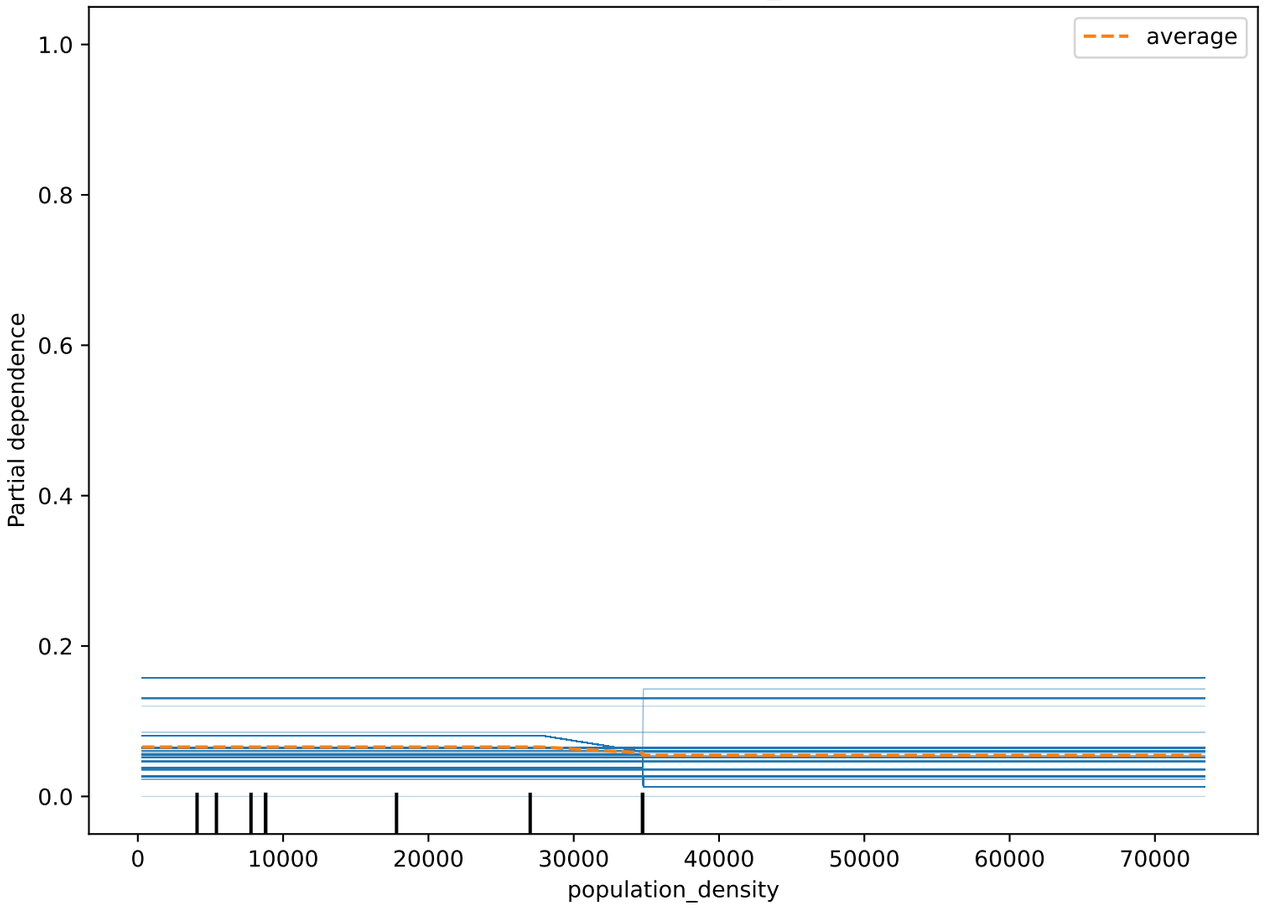

LIME Explanation for Top Class 0 Instance 2
model_M1 <= 0.00
model_M2 <= 0.00
area_cluster_C21 <= 0.00
max_power_118.36bhp@5500rpm <= 0.00
area_cluster_C19 <= 0.00
gross_weight <= 1185.00
0.45 < age_of_policyholder <= 0.55
area_cluster_C5 <= 0.00
area_cluster_C18 <= 0.00
engine_type_1.2 L K12N Dualjet <= 0.00
−0.005
0.000
0.005
0.010
0.015

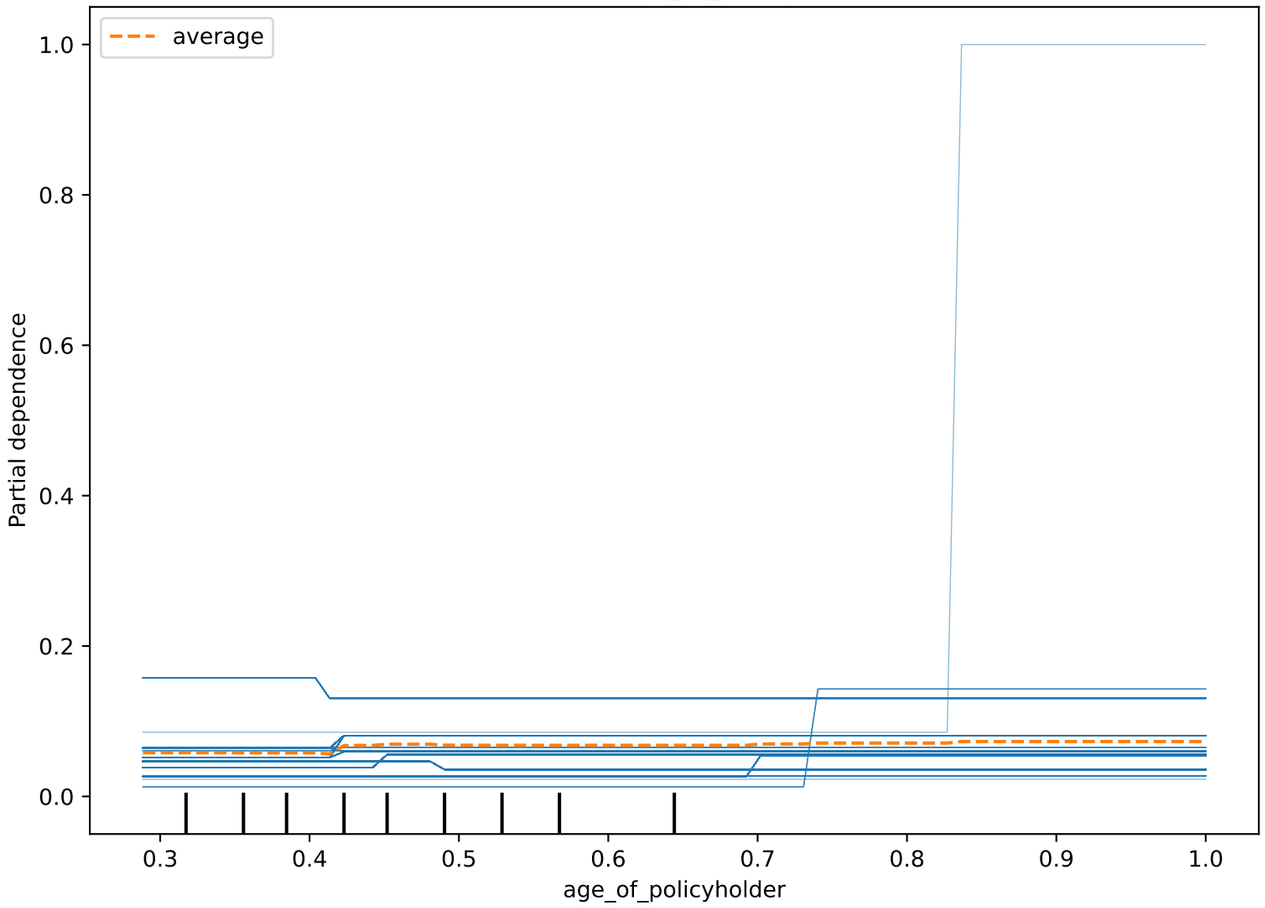

LIME Feature Importance Summary (Top 15 Features)
area_cluster_C18 <= 0.00
model_M1 <= 0.00
area_cluster_C18 > 0.00
area_cluster_C17 > 0.00
population_density > 27003.00
gross_weight <= 1185.00
0.00 < model_M1 <= 1.00
0.45 < age_of_policyholder <= 0.55
engine_type_1.5 Turbocharged Revotron <= 0.00
area_cluster_C5 <= 0.00
area_cluster_C16 <= 0.00
age_of_policyholder <= 0.37
max_torque_91Nm@4250rpm > 0.00
area_cluster_C15 <= 0.00
model_M2 <= 0.00
Feature
0.00
0.01
0.02
0.03
0.04
0.05
0.06
Importance

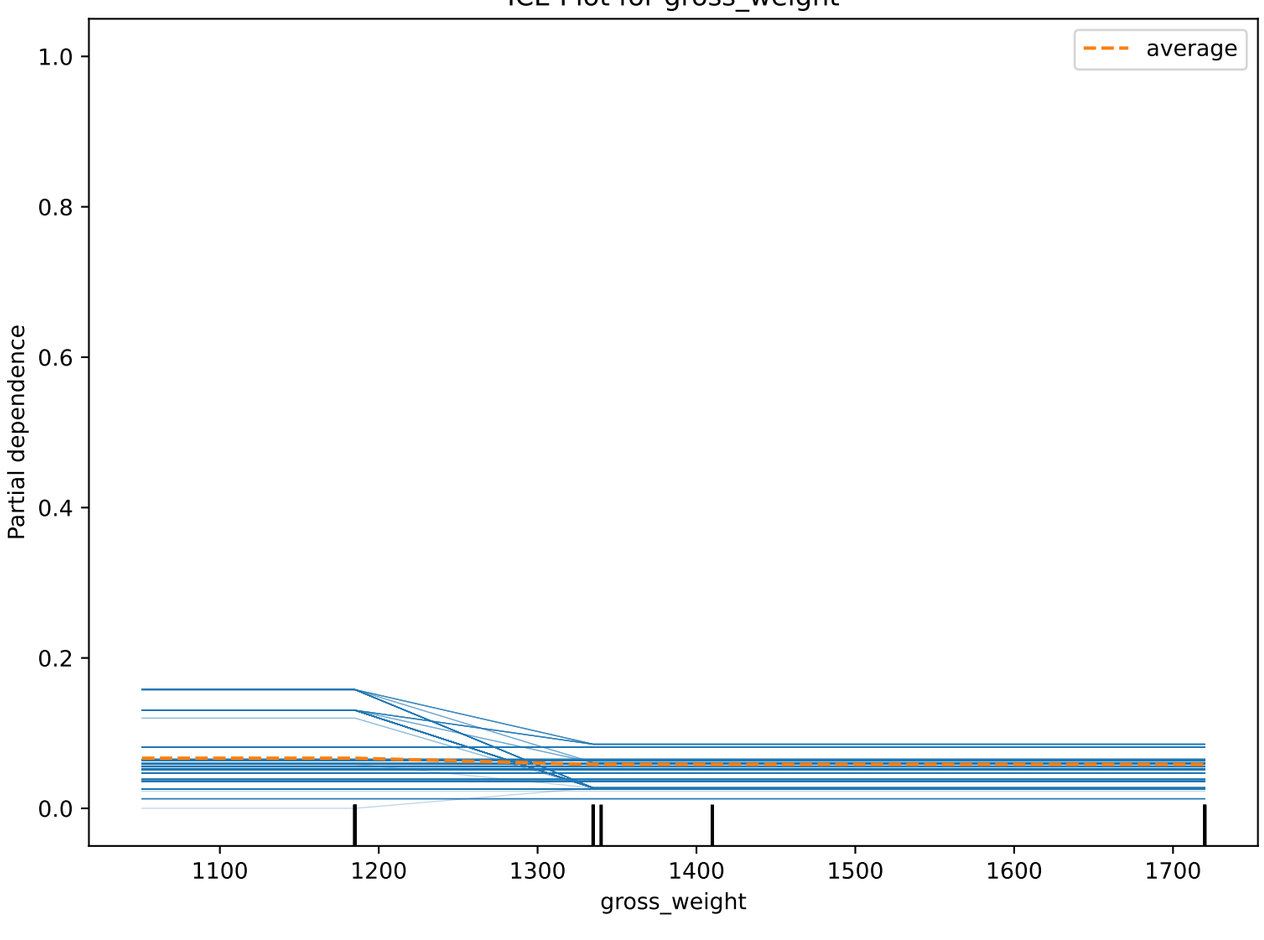

Partial Dependence Plot for population_density
Partial dependence
0.066
0.064
0.062
0.060
0.058
0.056
0
10000
20000
30000
40000
50000
60000
70000
population_density


Partial Dependence Plot for age_of_policyholder
Partial dependence
0.0725
0.0700
0.0675
0.0650
0.0625
0.0600
0.0575
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
age_of_policyholder


Partial Dependence Plot for gross_weight
Partial dependence
0.066
0.064
0.062
0.060
1100
1200
1300
1400
1500
1600
1700
gross_weight


ICE Plot for population_density
average
Partial dependence
1.0
0.8
0.6
0.4
0.2
0.0
0
10000
20000
30000
40000
50000
60000
70000
population_density


ICE Plot for age_of_policyholder
average
Partial dependence
1.0
0.8
0.6
0.4
0.2
0.0
0.3
0.4
0.5
0.6
0.7
0.8
0.9
1.0
age_of_policyholder


ICE Plot for gross_weight
average
Partial dependence
1.0
0.8
0.6
0.4
0.2
0.0
1100
1200
1300
1400
1500
1600
1700
gross_weight