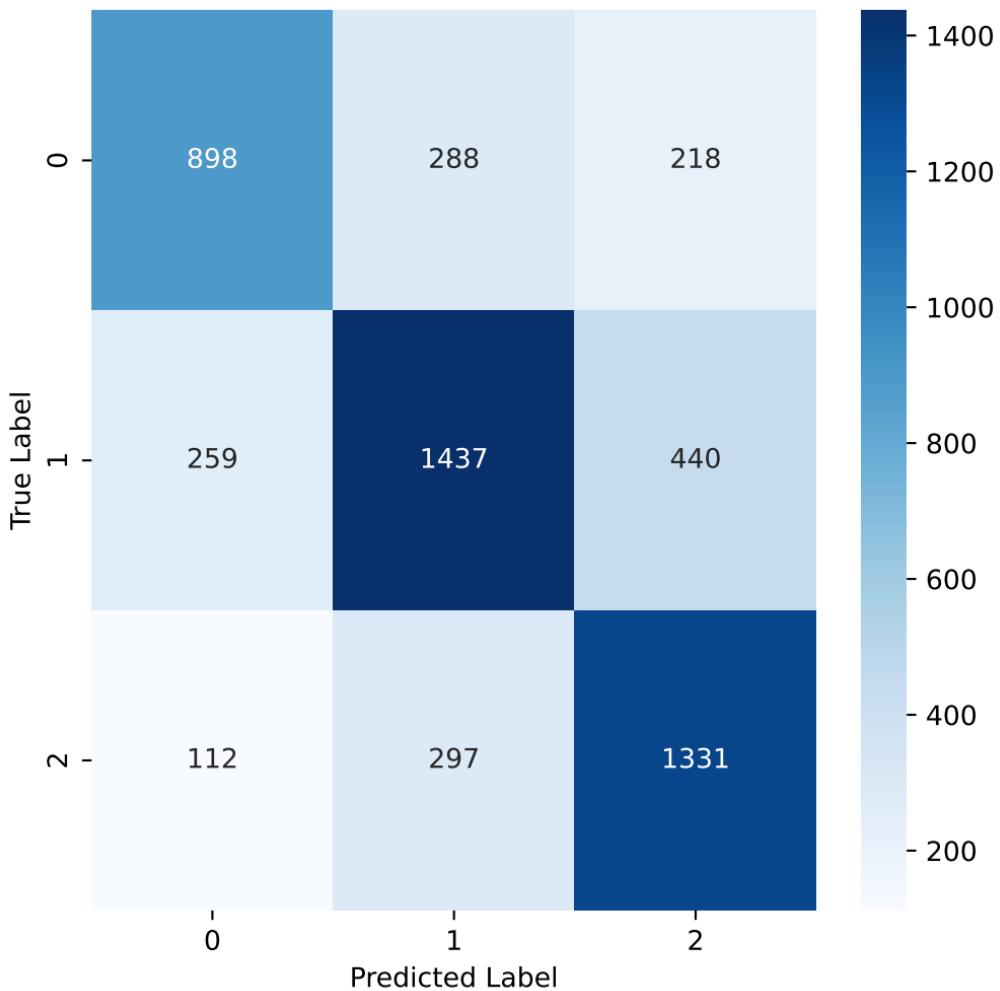


Confusion Matrix - Nationwide



SHAP Beeswarm Plot for Class 0 - Nationwide

High

Incidence_Rate_lag1

Class_50

Class_40

Class_30

DMI_lag3

Class_20

temperature_2m_max_lag3

Class_90

Class_80

ANOM3.4_lag3

ANOM4

ANOM3.4

Class_10

temperature_2m_max_lag2

Class_60

DMI_lag1

precipitation

evaporative_stress_index_lag1

total_evaporation_sum_lag3

ANOM4_lag1

Feature value

Low

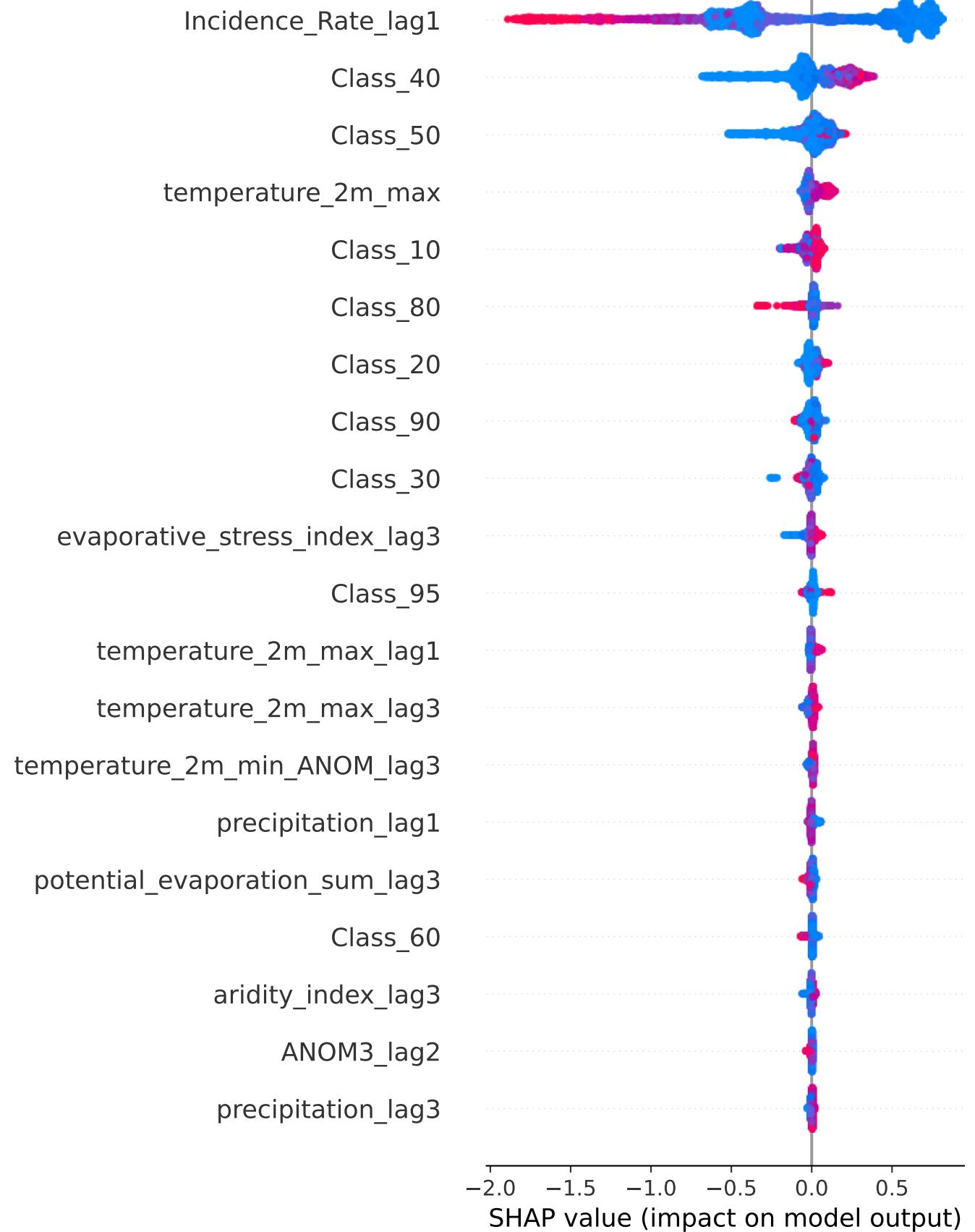
SHAP value (impact on model output)

SHAP Beeswarm Plot for Class 1 - Nationwide

High

Feature value

Low



SHAP Beeswarm Plot for Class 2 - Nationwide

High

Incidence_Rate_lag1

ANOM3_lag2

DMI_lag3

Class_50

ANOM4_lag1

precipitation

ANOM4

precipitation_lag1

evaporative_stress_index_lag3

aridity_index_lag3

DMI_East_lag3

DMI_lag1

Class_40

DMI_East

temperature_2m_max_lag3

precipitation_lag3

Class_60

aridity_index_lag1

ANOM1+2_lag2

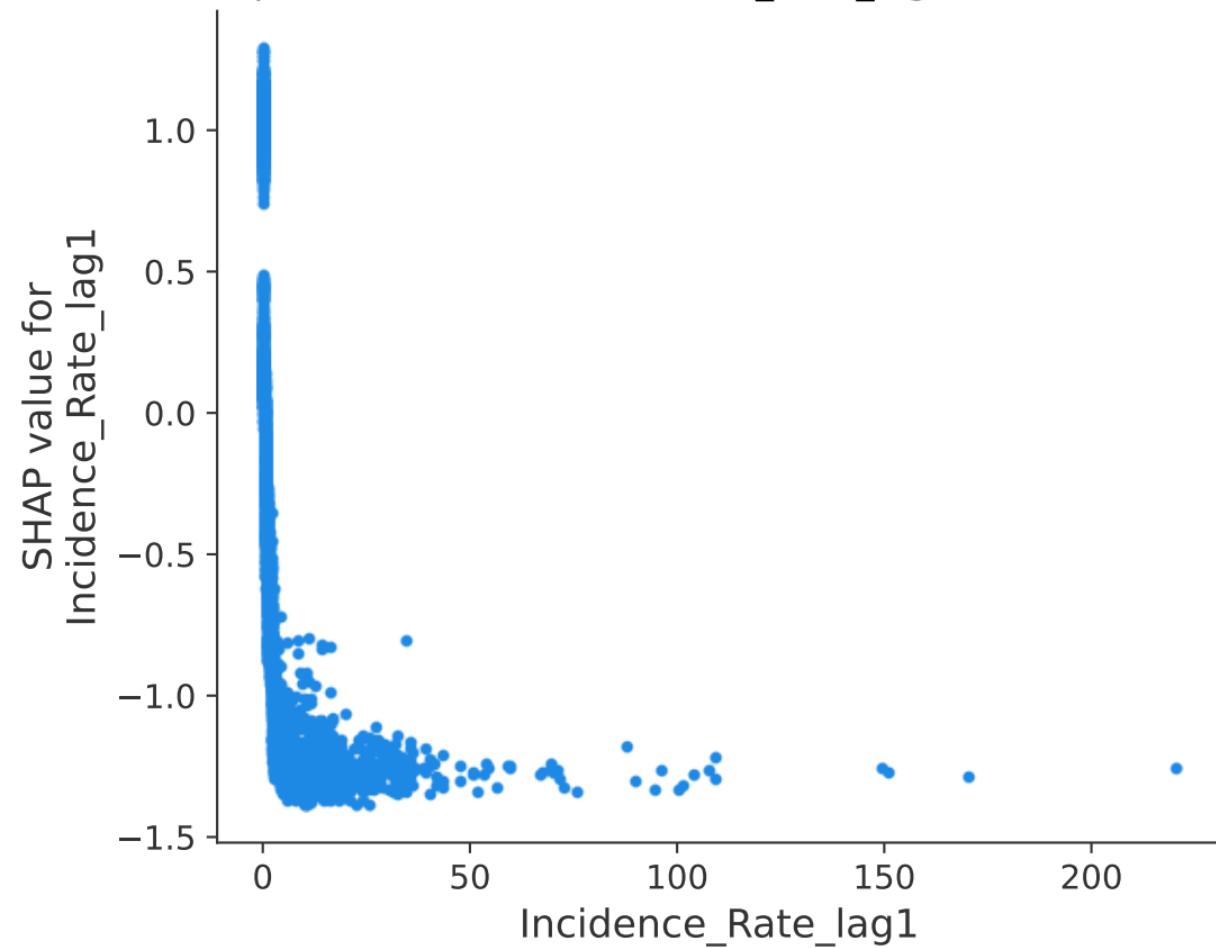
potential_evaporation_sum_lag3

Feature value

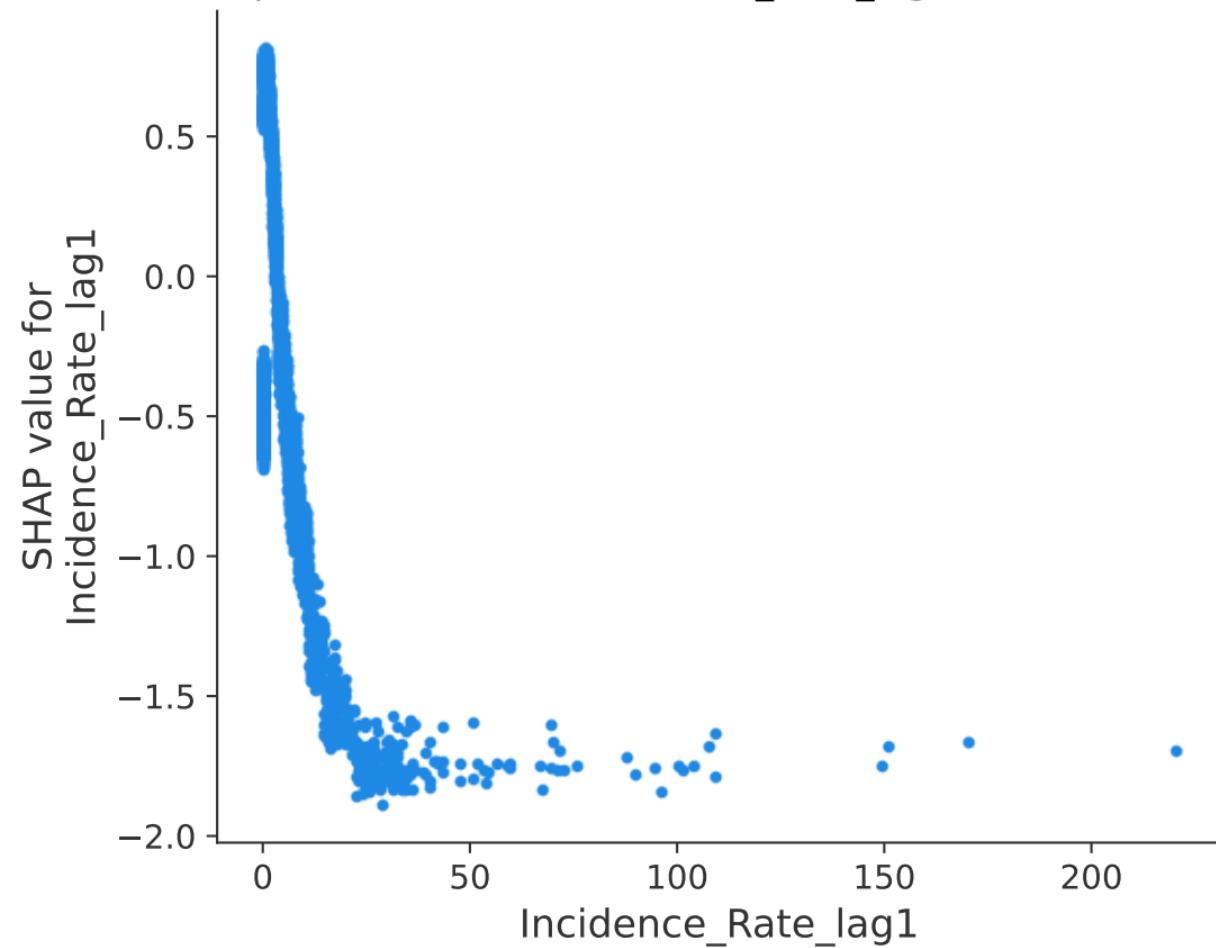
Low

SHAP value (impact on model output)

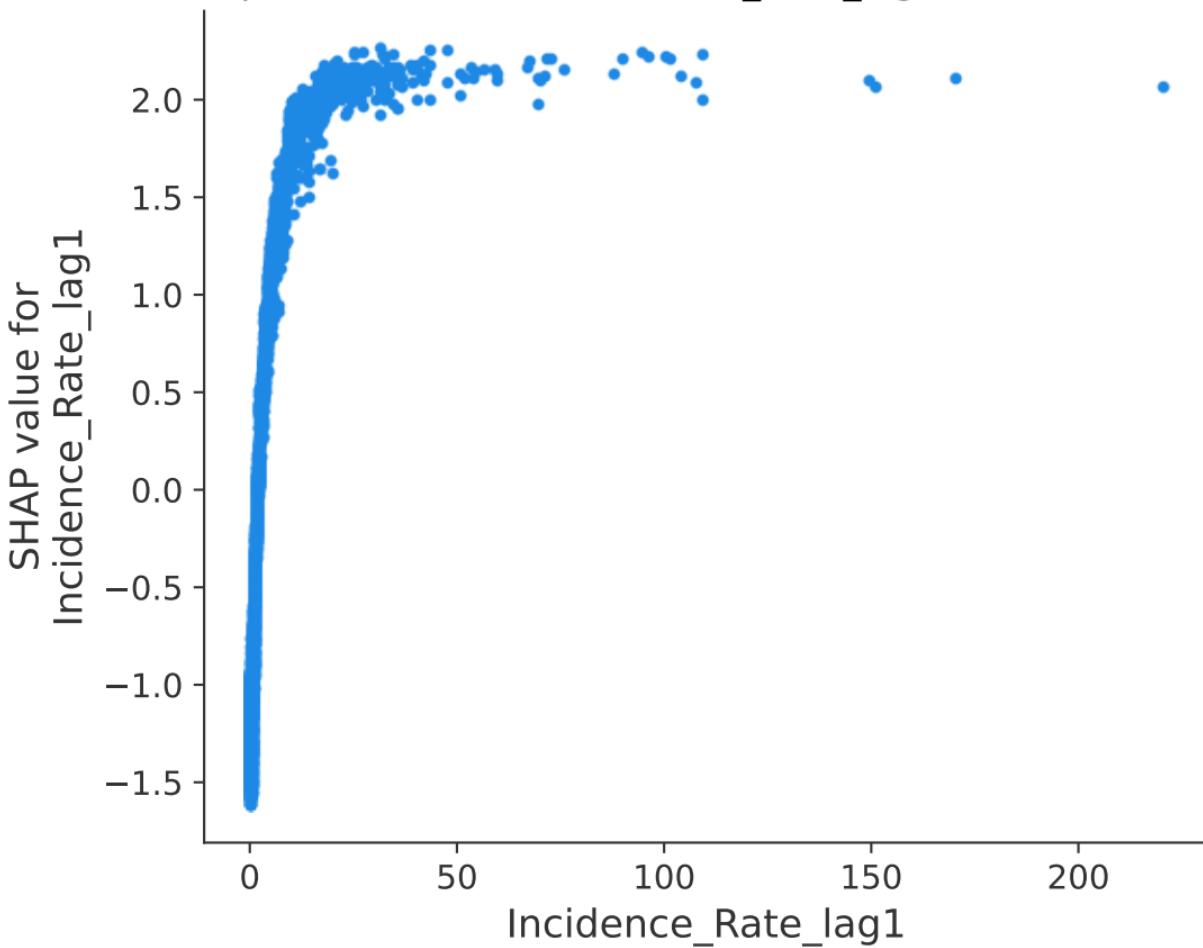
SHAP Dependence Plot for Incidence_Rate_lag1, Class 0 - Nationwide



SHAP Dependence Plot for Incidence_Rate_lag1, Class 1 - Nationwide



SHAP Dependence Plot for Incidence_Rate_lag1, Class 2 - Nationwide



SHAP Dependence Plot for Class_50, Class 0 - Nationwide

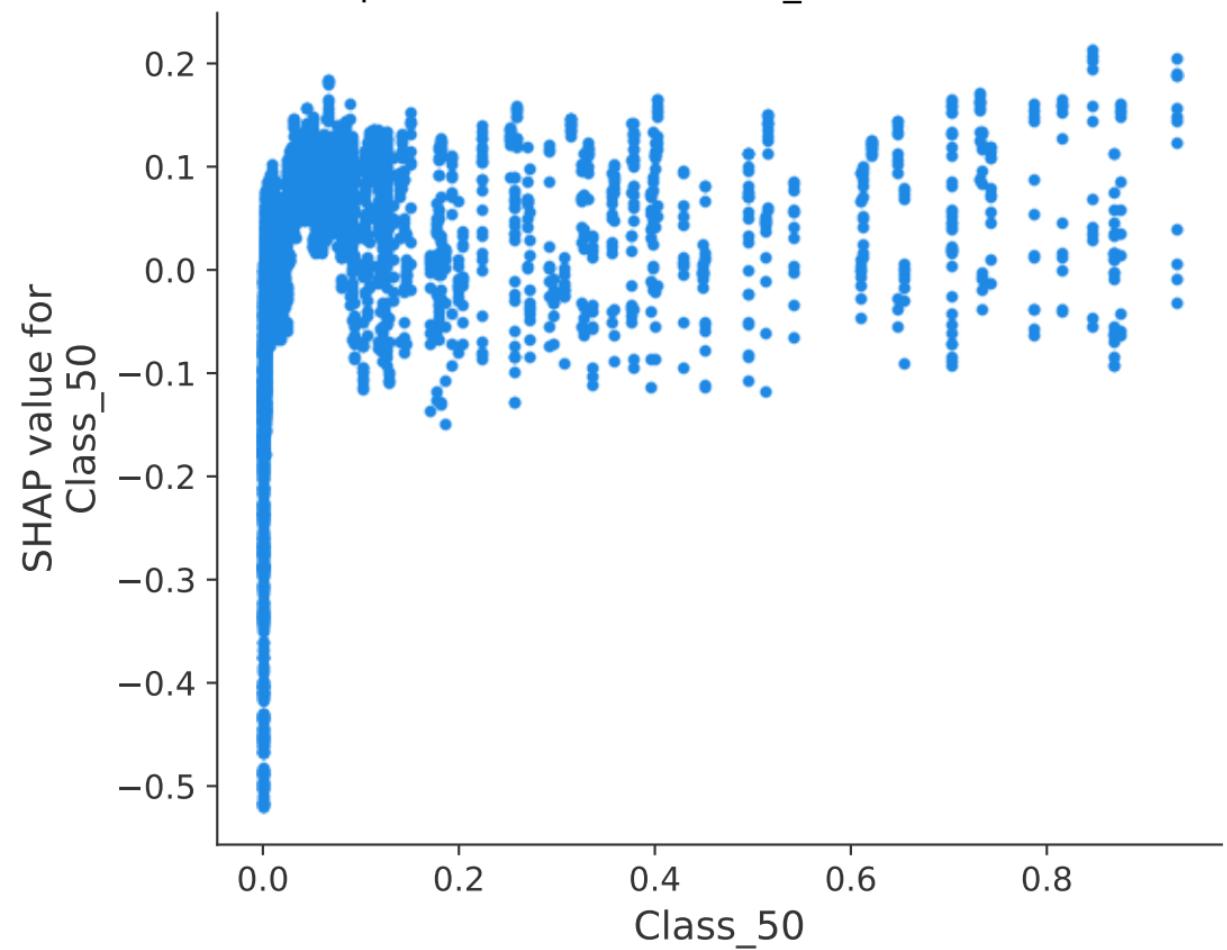
SHAP value for
Class_50

1.25
1.00
0.75
0.50
0.25
0.00
-0.25
-0.50
-0.75

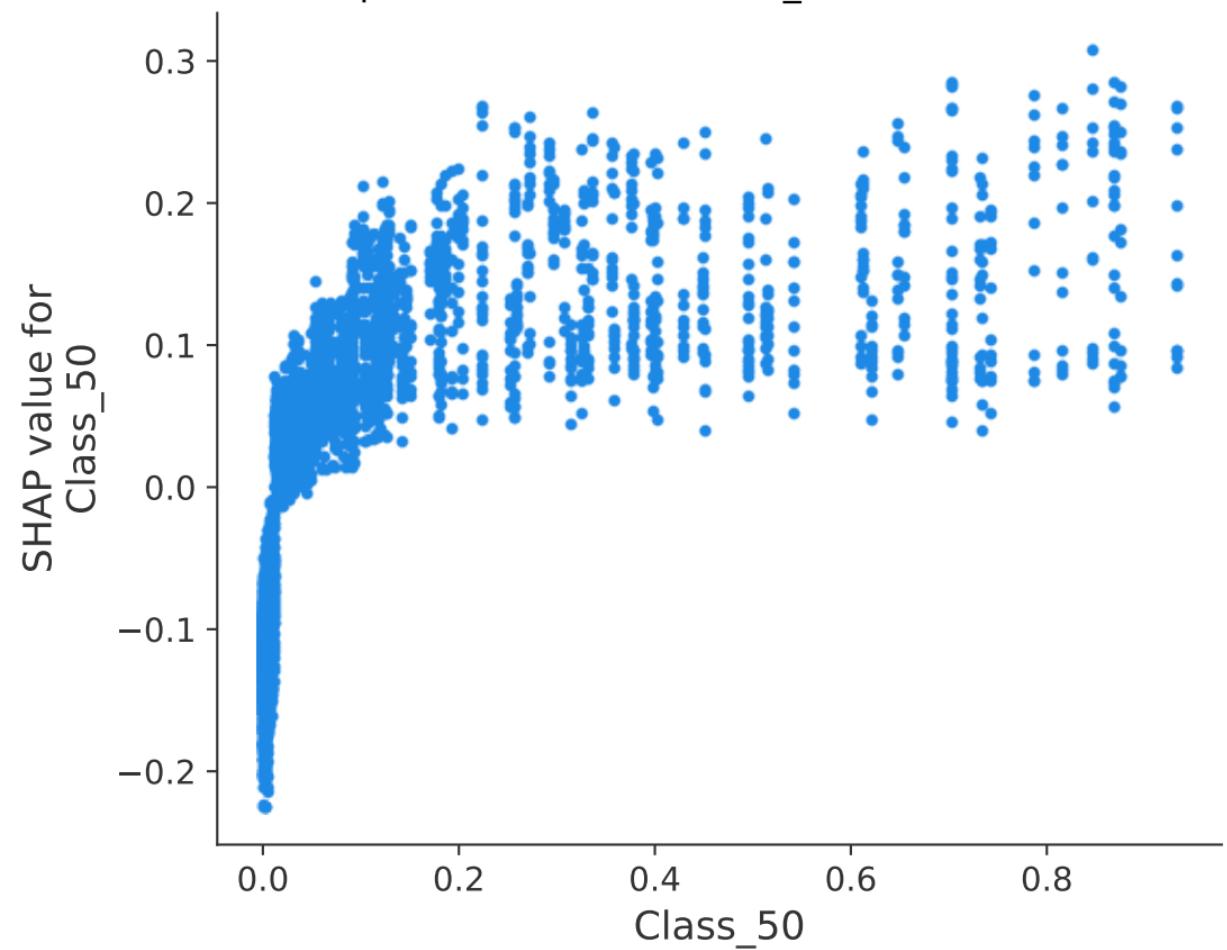
0.0 0.2 0.4 0.6 0.8

Class_50

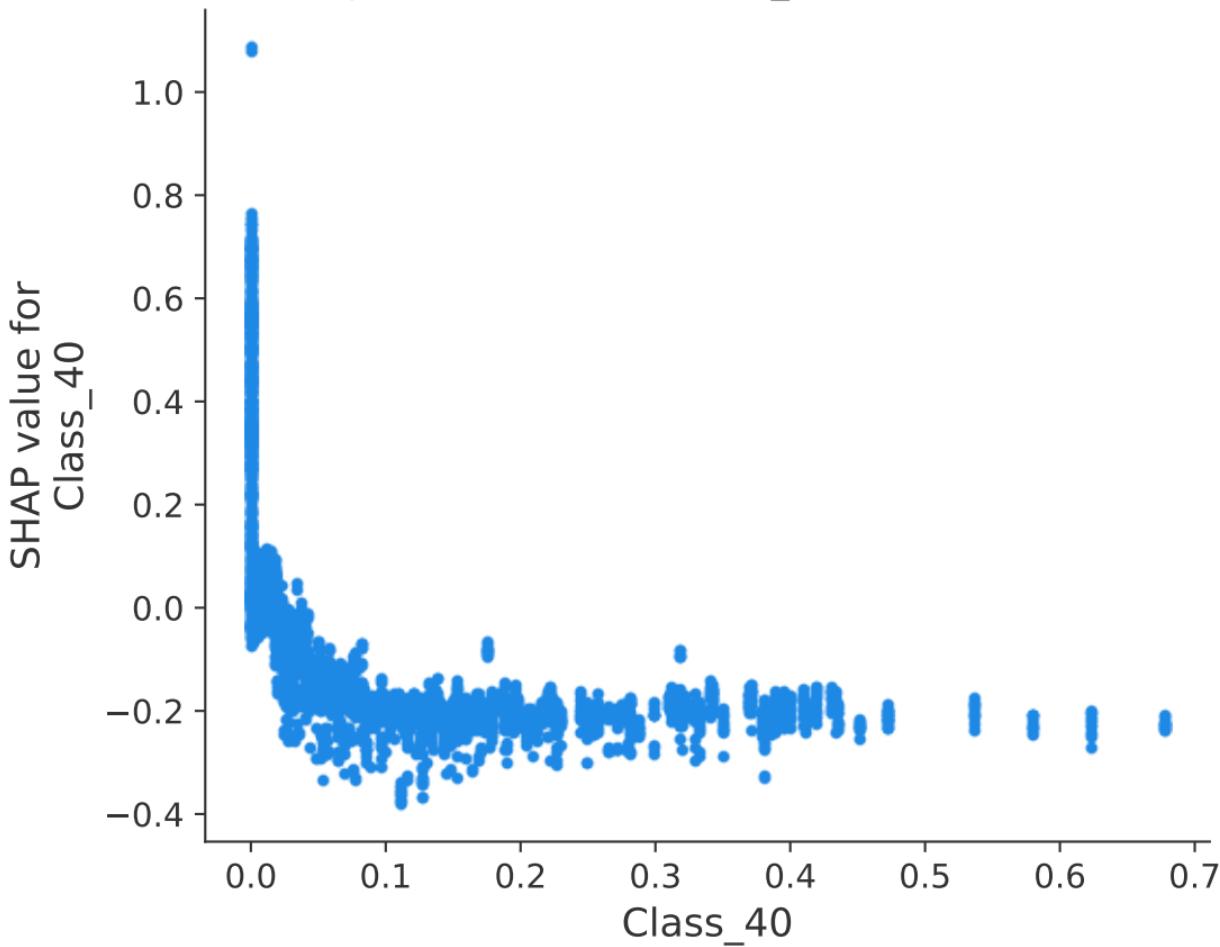
SHAP Dependence Plot for Class_50, Class 1 - Nationwide



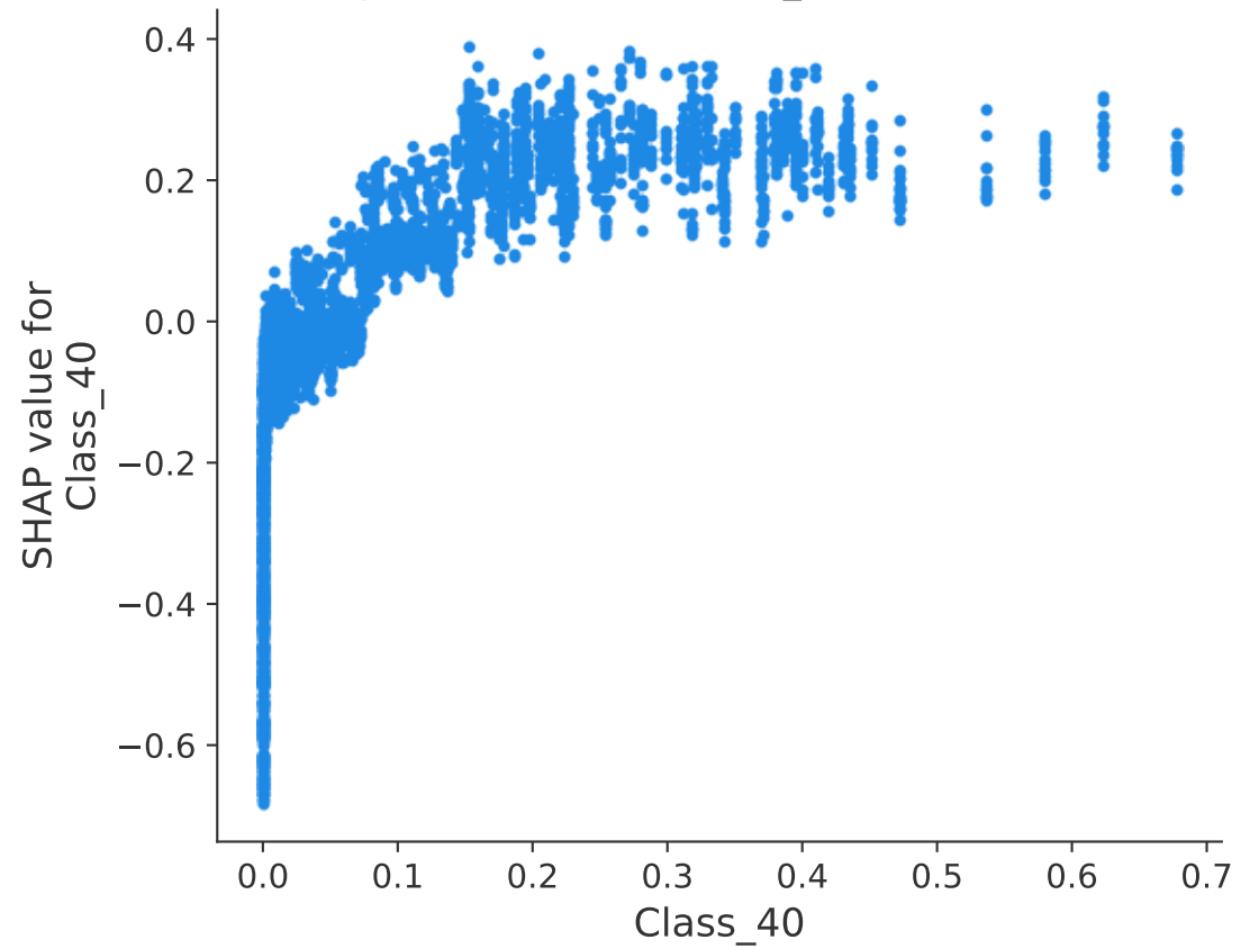
SHAP Dependence Plot for Class_50, Class 2 - Nationwide



SHAP Dependence Plot for Class_40, Class 0 - Nationwide

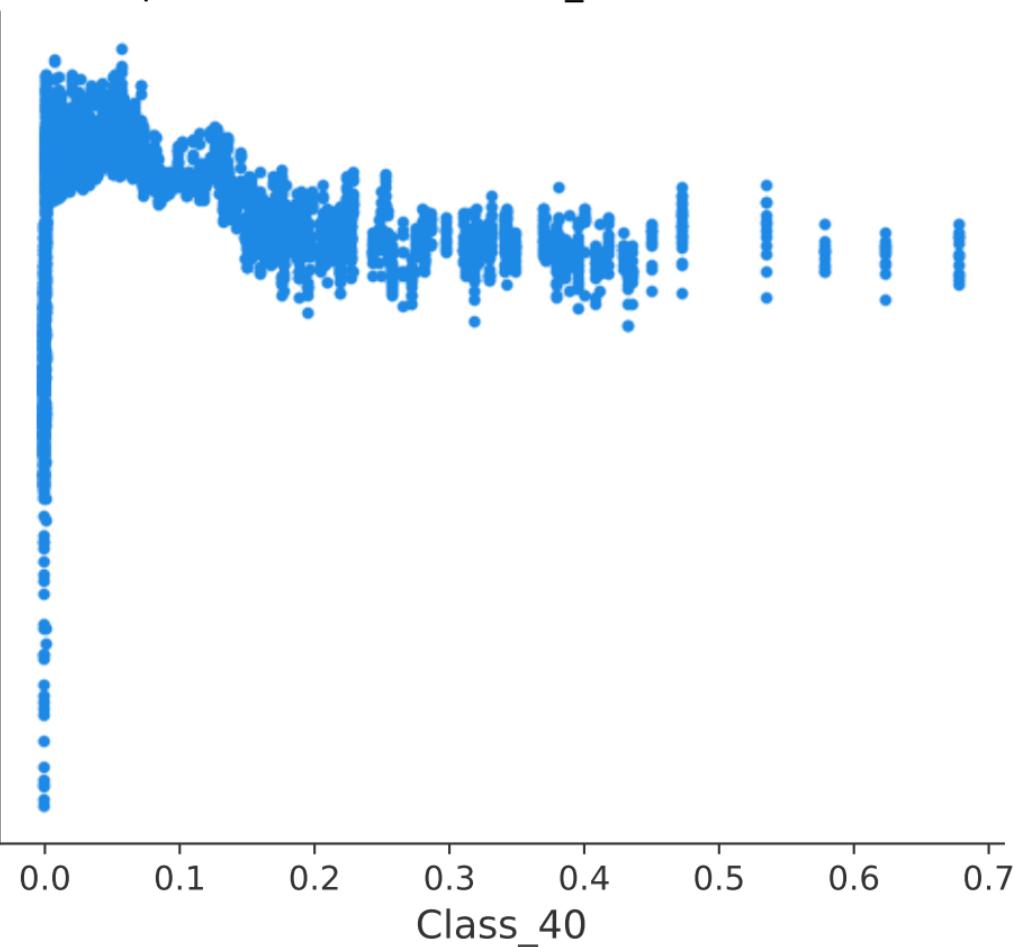


SHAP Dependence Plot for Class_40, Class 1 - Nationwide



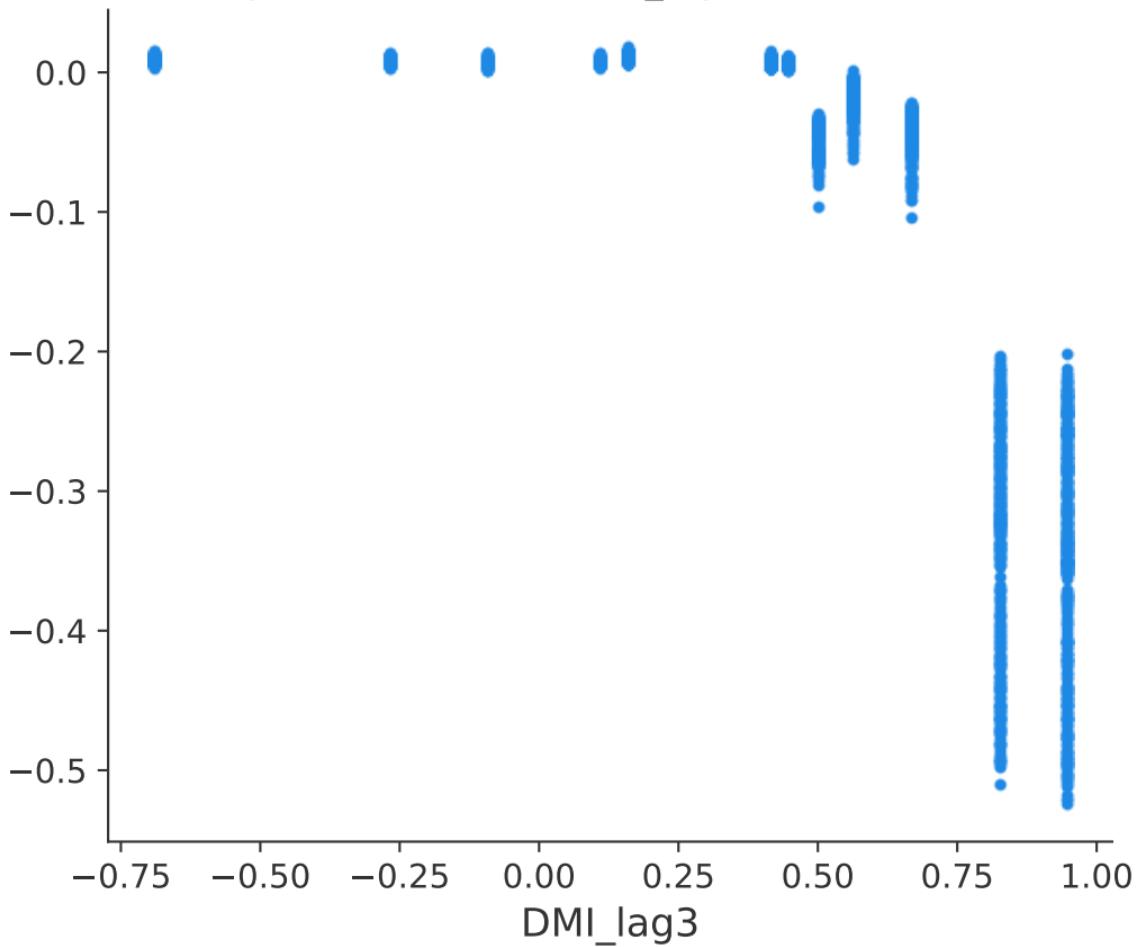
SHAP Dependence Plot for Class_40, Class 2 - Nationwide

SHAP value for
Class_40

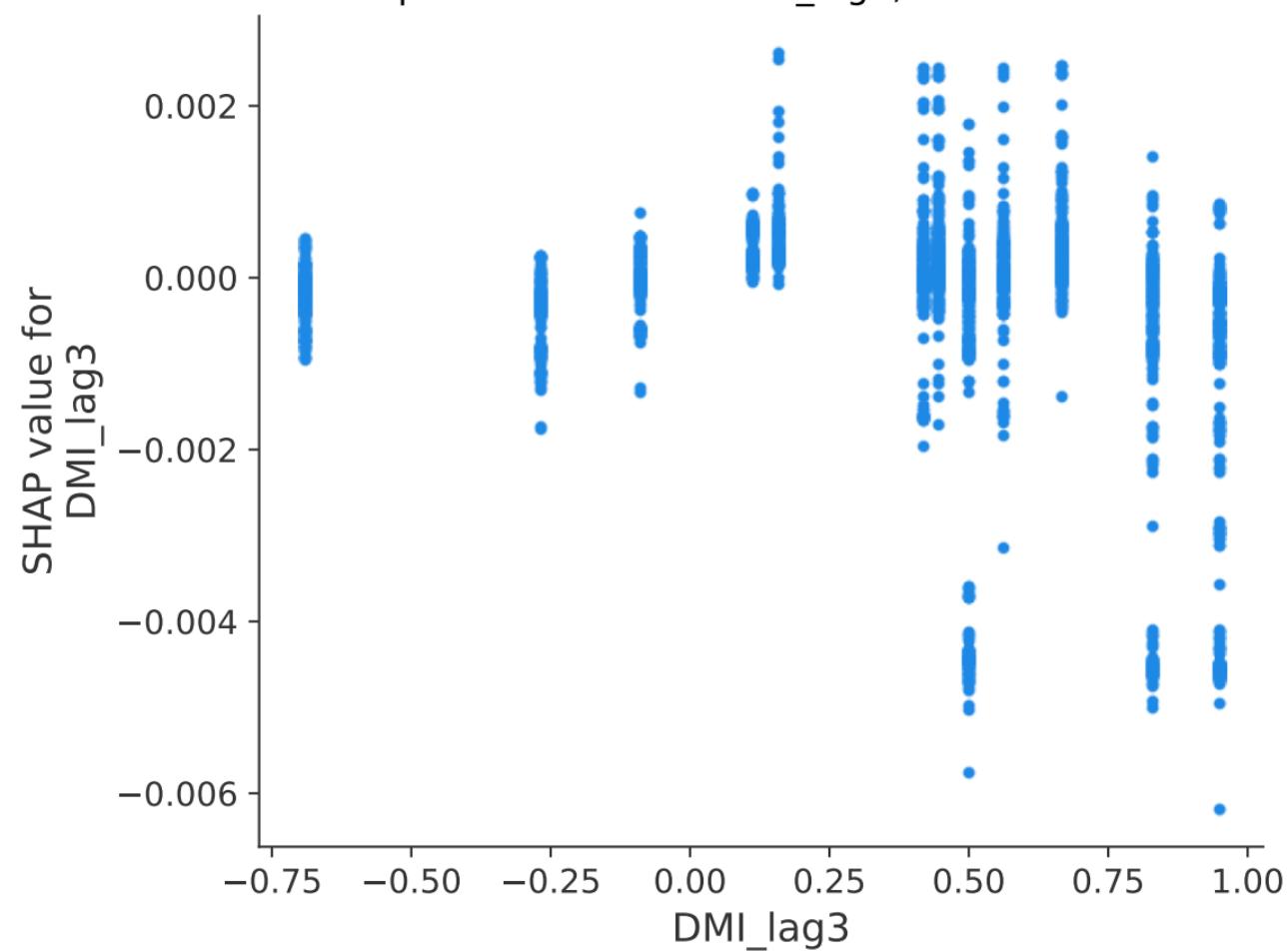


SHAP Dependence Plot for DMI_lag3, Class 0 - Nationwide

SHAP value for
DMI_lag3



SHAP Dependence Plot for DMI_lag3, Class 1 - Nationwide



SHAP Dependence Plot for DMI_lag3, Class 2 - Nationwide

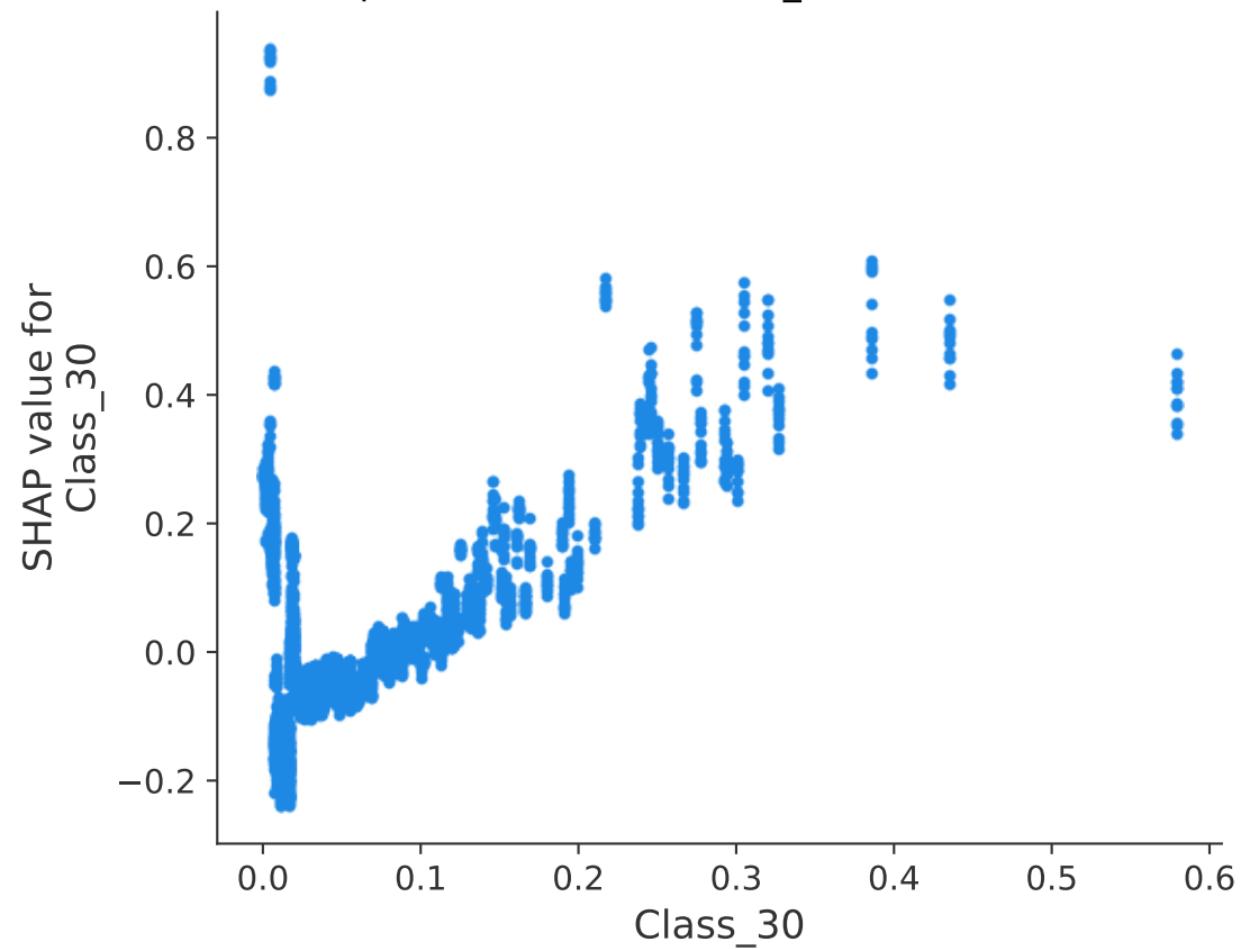
SHAP value for
DMI_lag3

0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0

-0.75 -0.50 -0.25 0.00 0.25 0.50 0.75 1.00

DMI_lag3

SHAP Dependence Plot for Class_30, Class 0 - Nationwide



SHAP Dependence Plot for Class_30, Class 1 - Nationwide

SHAP value for
Class_30

0.05

0.00

-0.05

-0.10

-0.15

-0.20

-0.25

0.0

0.1

0.2

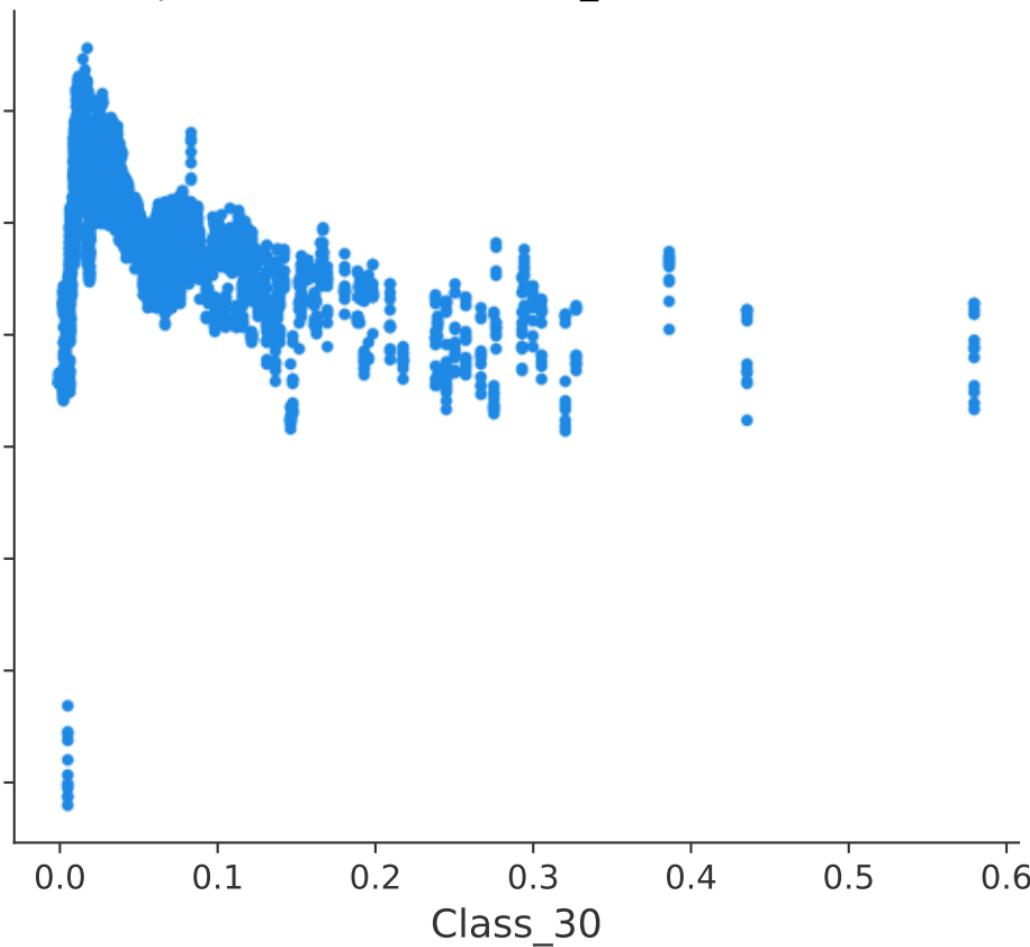
0.3

0.4

0.5

0.6

Class_30



SHAP Dependence Plot for Class_30, Class 2 - Nationwide

SHAP value for
Class_30

