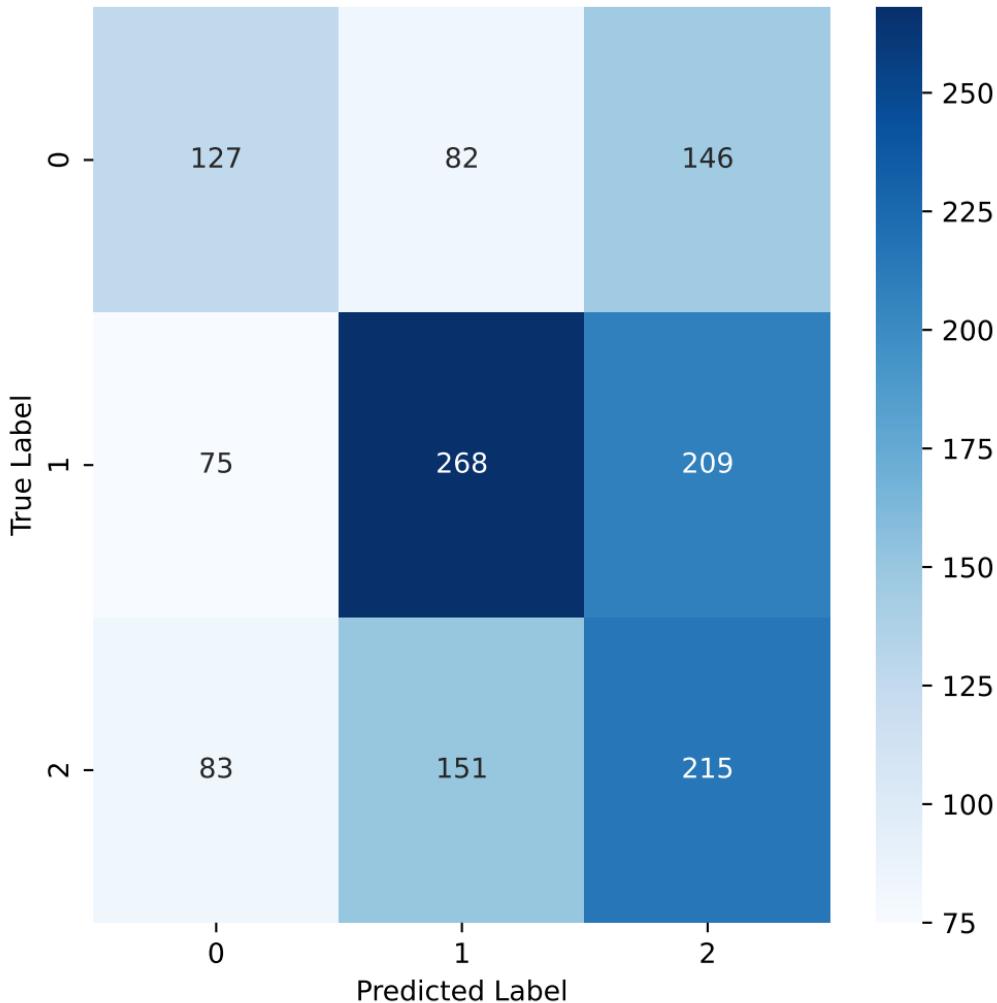


Confusion Matrix - Sumatra



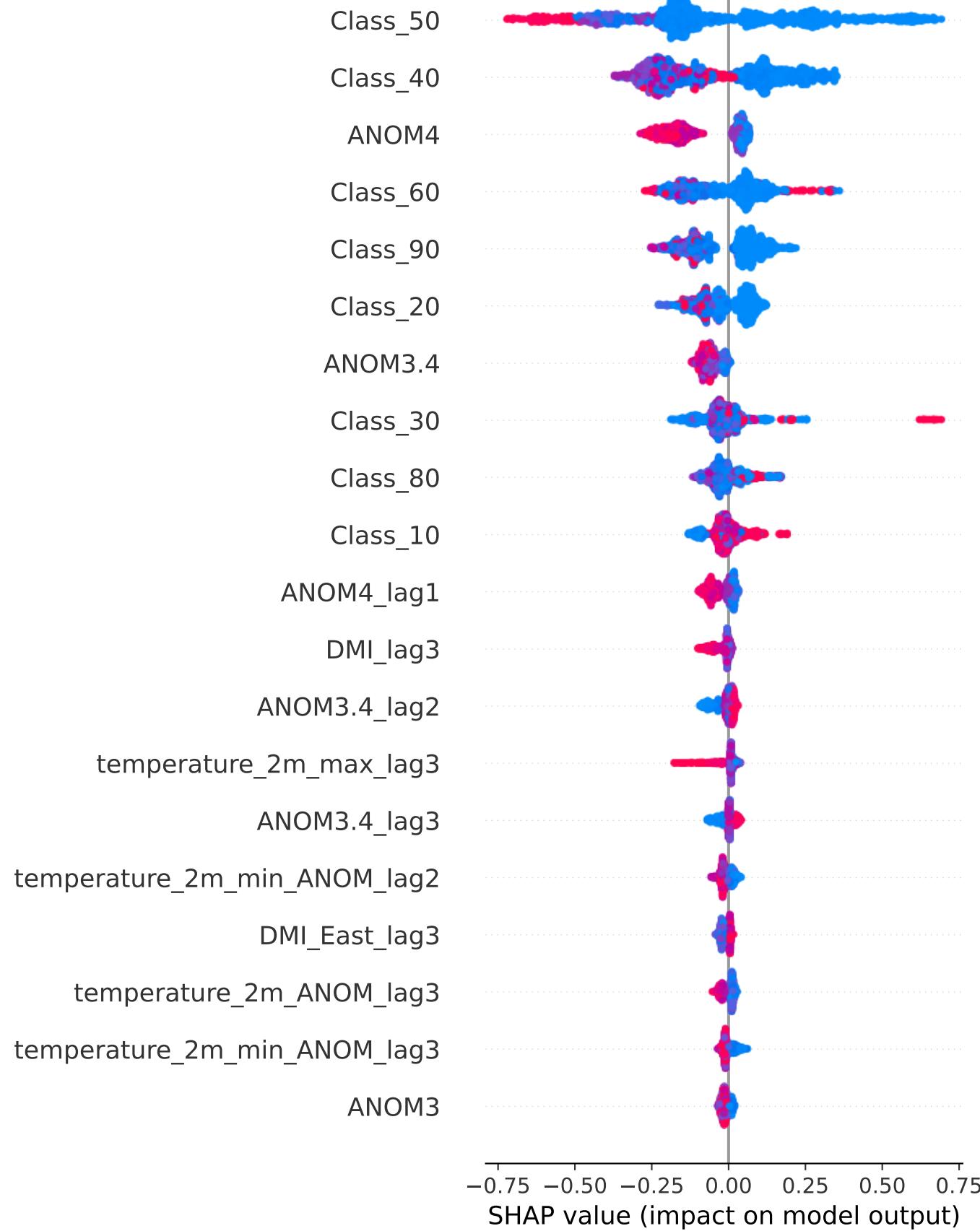
SHAP Beeswarm Plot for Class 0 - Sumatra

High

Feature value

Low

SHAP value (impact on model output)



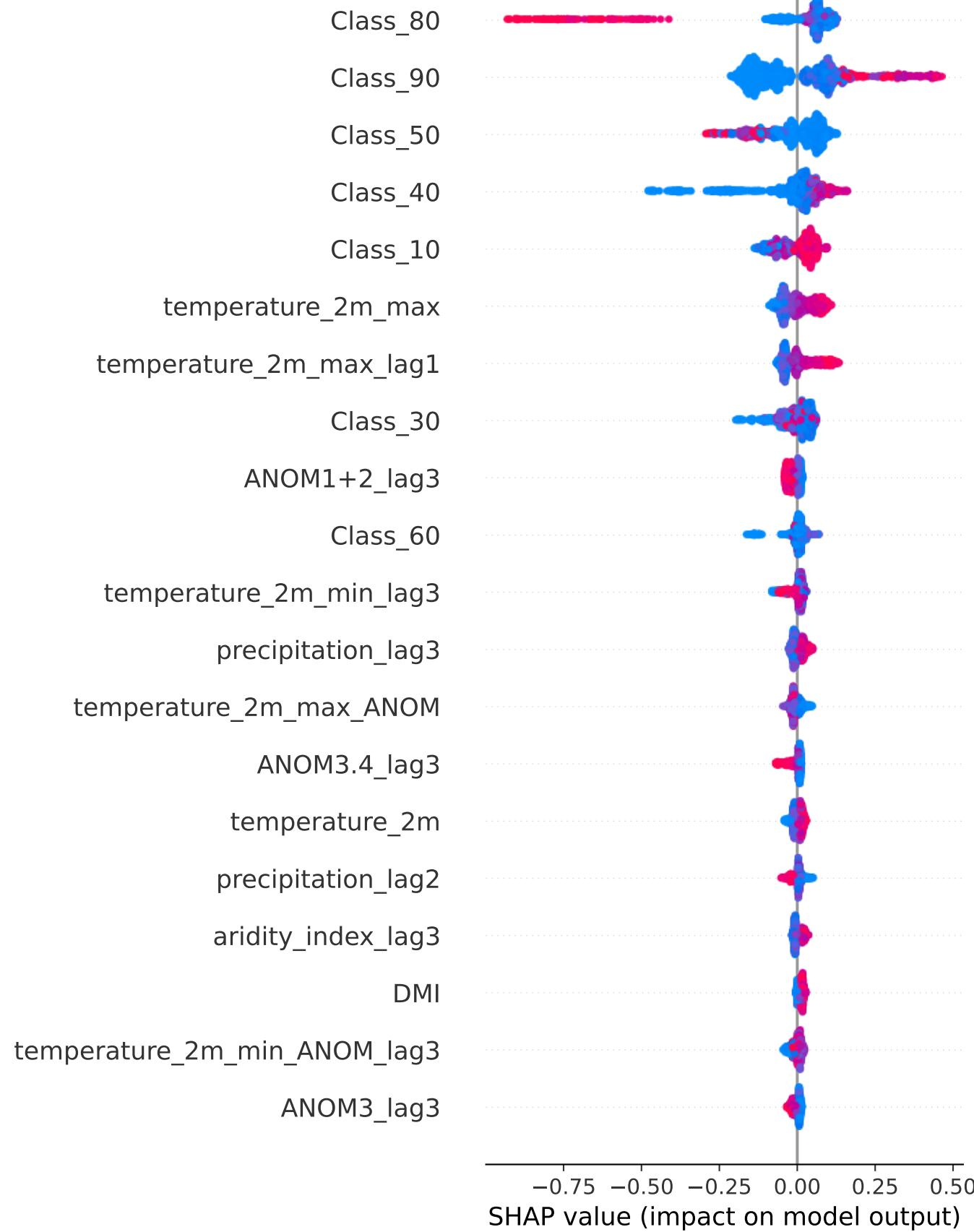
SHAP Beeswarm Plot for Class 1 - Sumatra

High

Feature value

Low

SHAP value (impact on model output)

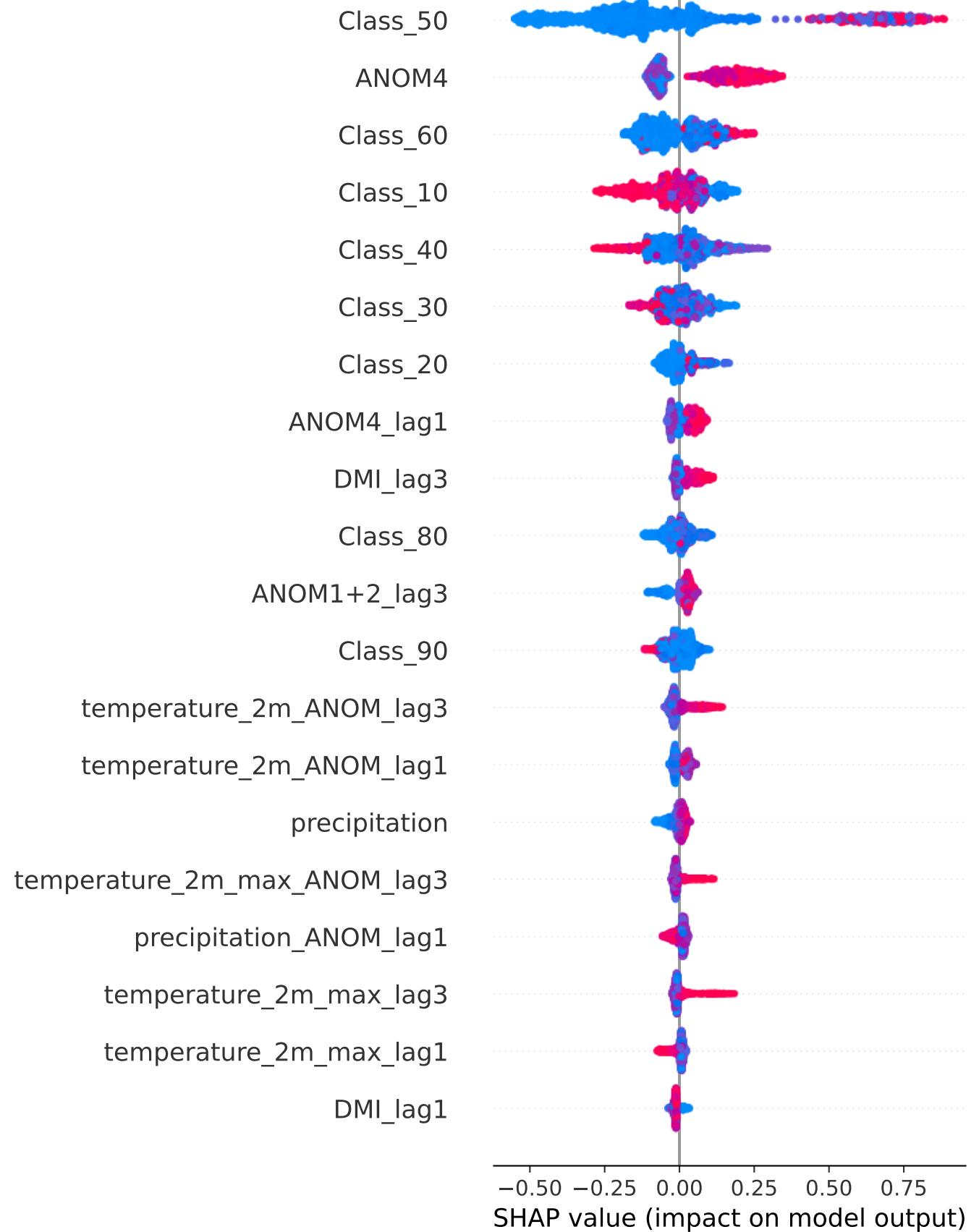


SHAP Beeswarm Plot for Class 2 - Sumatra

High

Feature value

Low



SHAP Dependence Plot for Class_50, Class 0 - Sumatra

SHAP value for
Class_50

0.6

0.4

0.2

0.0

-0.2

-0.4

-0.6

0.0

0.1

0.2

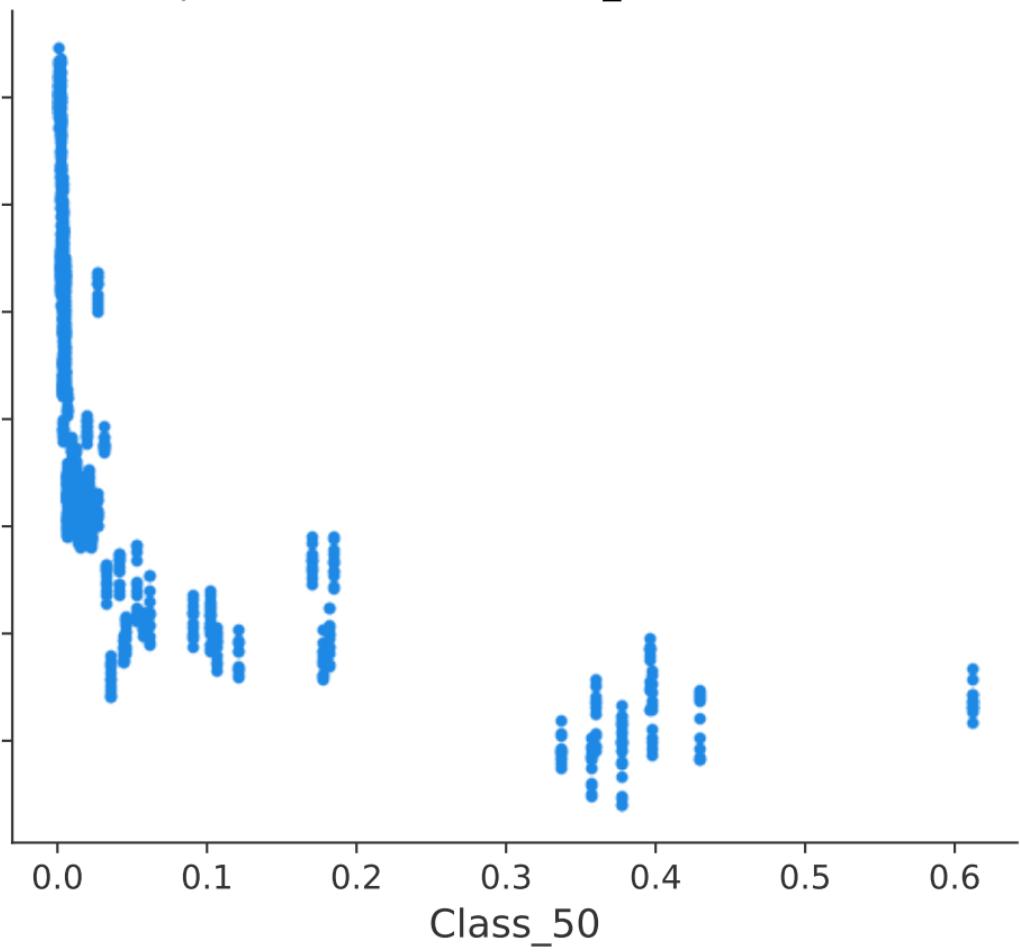
0.3

0.4

0.5

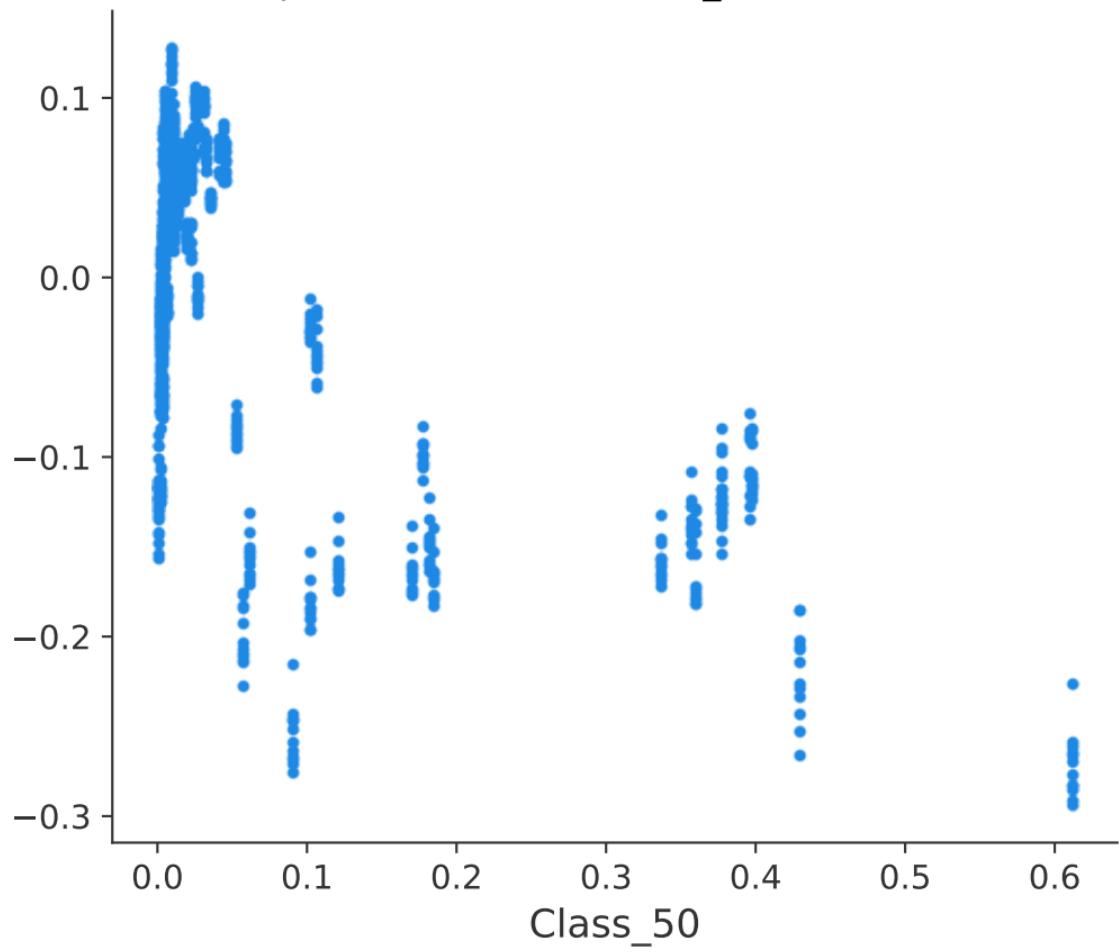
0.6

Class_50



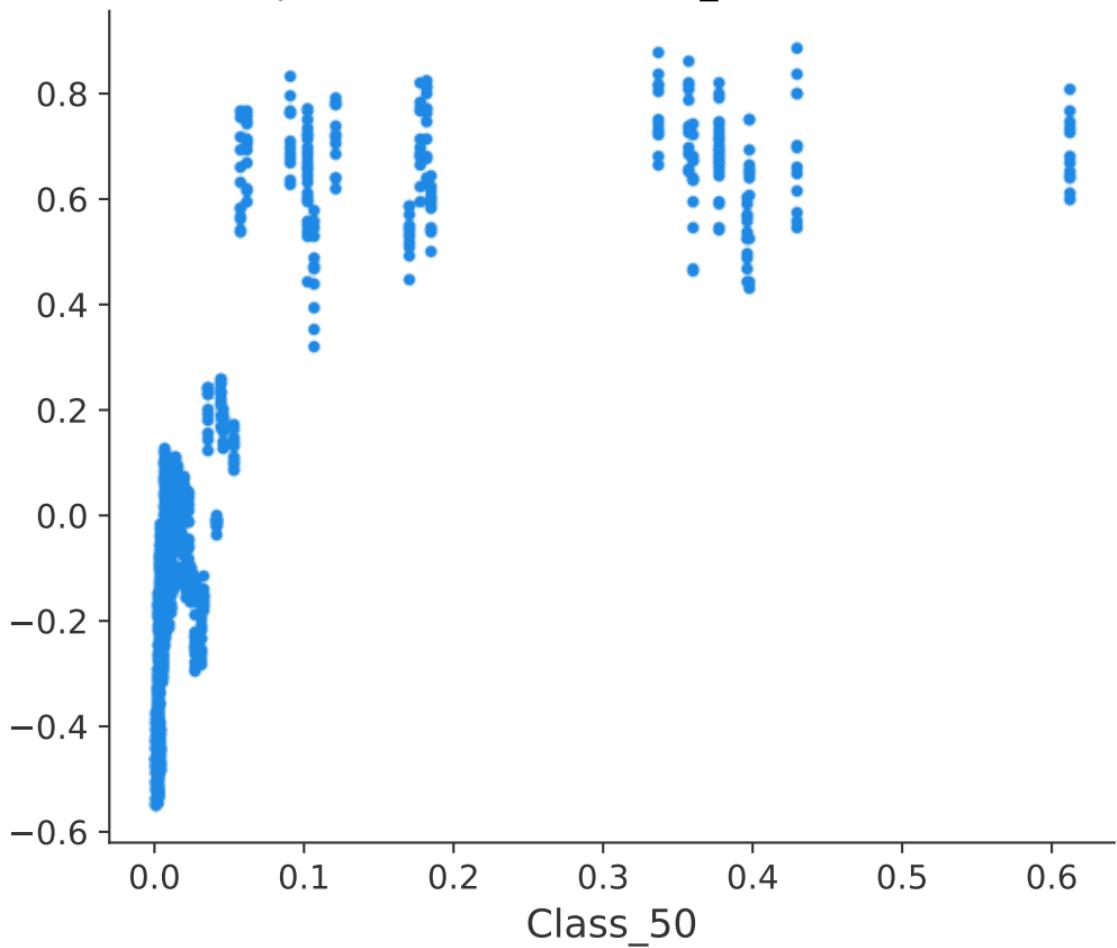
SHAP Dependence Plot for Class_50, Class 1 - Sumatra

SHAP value for
Class_50



SHAP Dependence Plot for Class_50, Class 2 - Sumatra

SHAP value for
Class_50



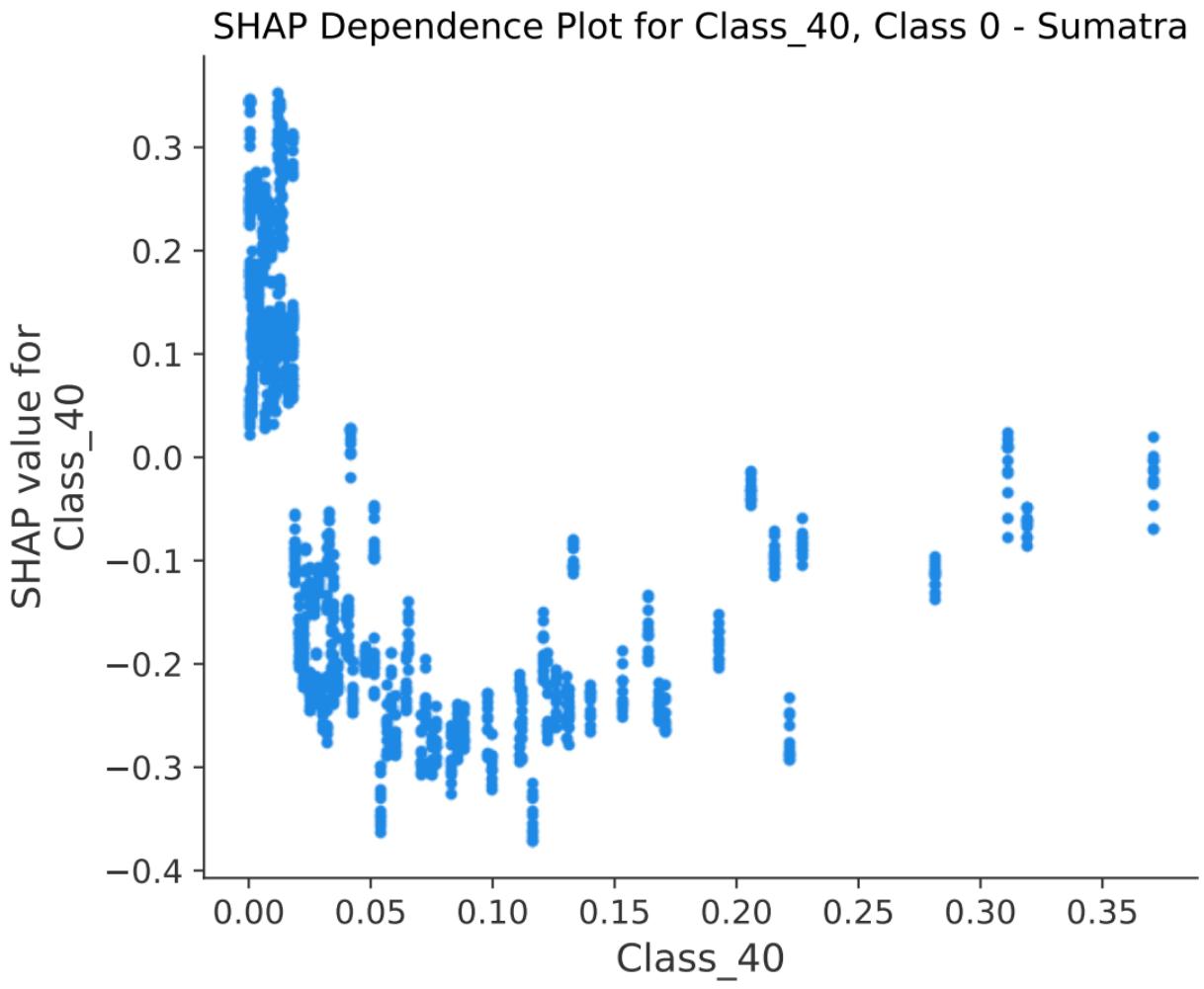
SHAP Dependence Plot for Class_40, Class 0 - Sumatra

SHAP value for
Class_40

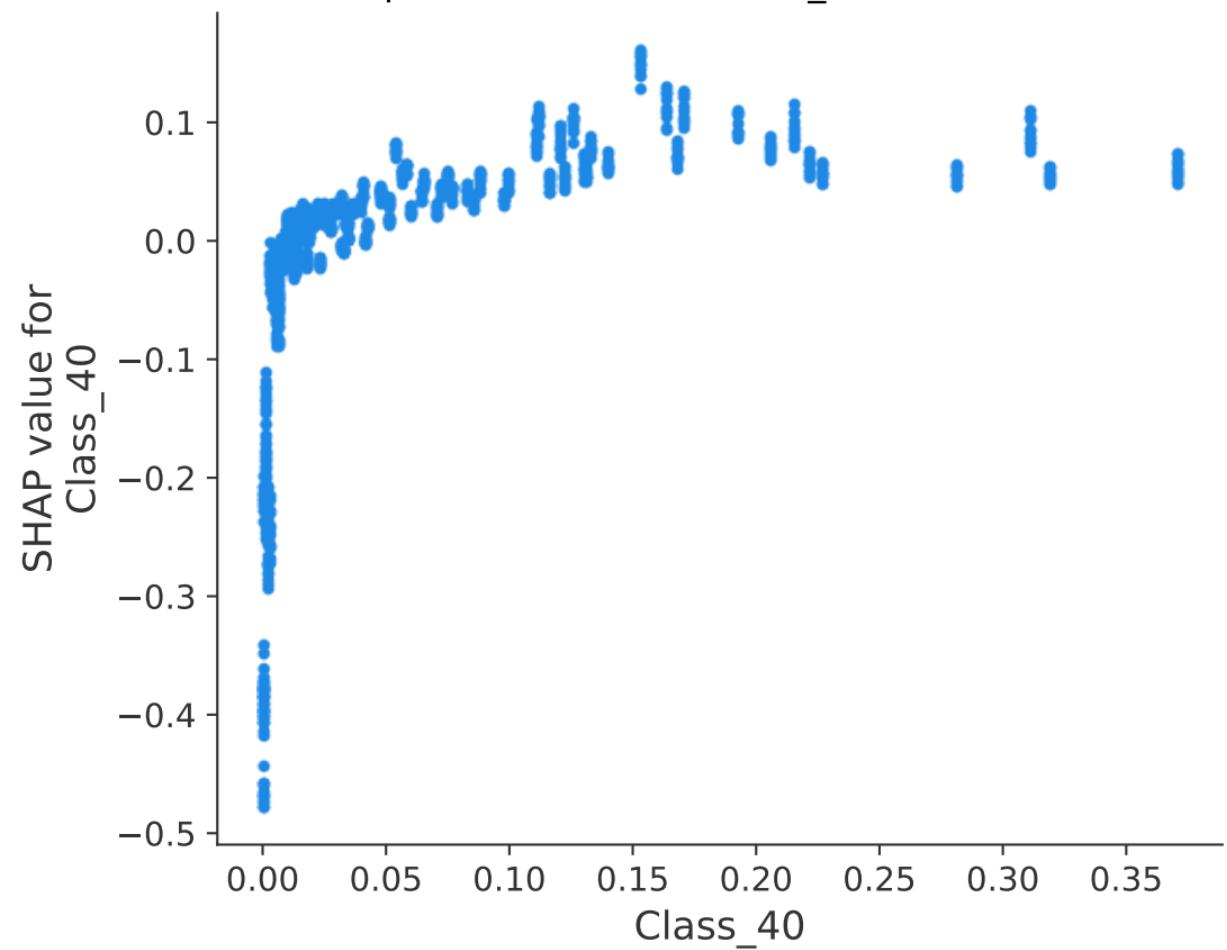
0.00 0.05 0.10 0.15 0.20 0.25 0.30 0.35

Class_40

0.3
0.2
0.1
0.0
-0.1
-0.2
-0.3
-0.4

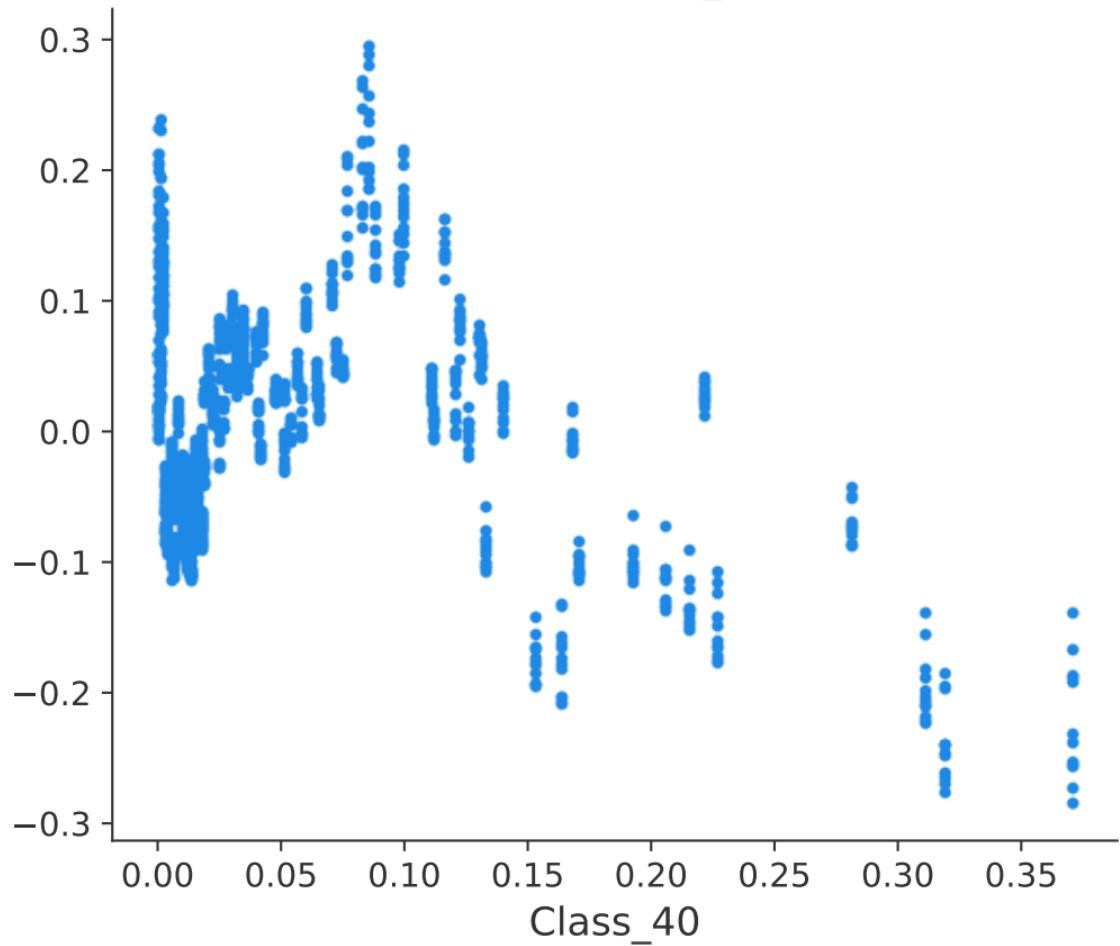


SHAP Dependence Plot for Class_40, Class 1 - Sumatra



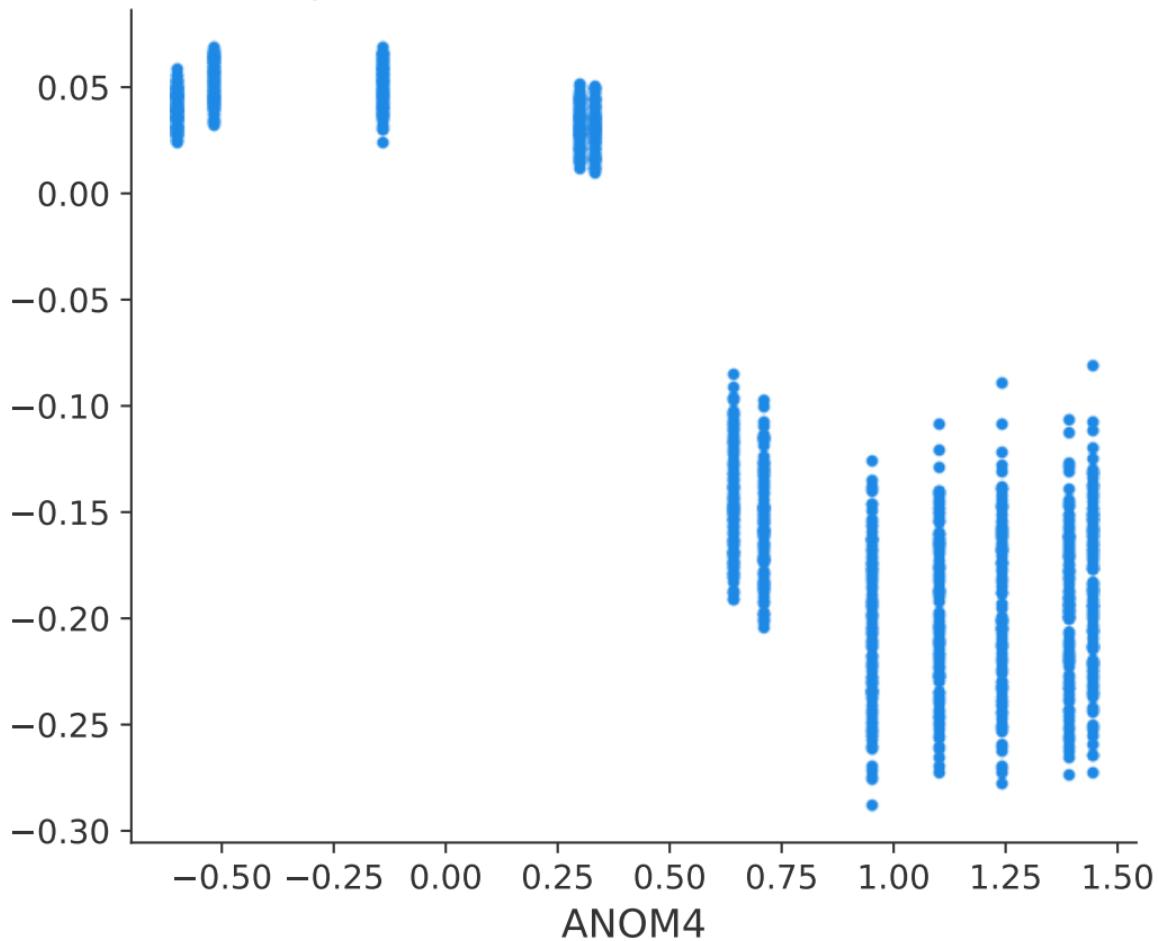
SHAP Dependence Plot for Class_40, Class 2 - Sumatra

SHAP value for
Class_40

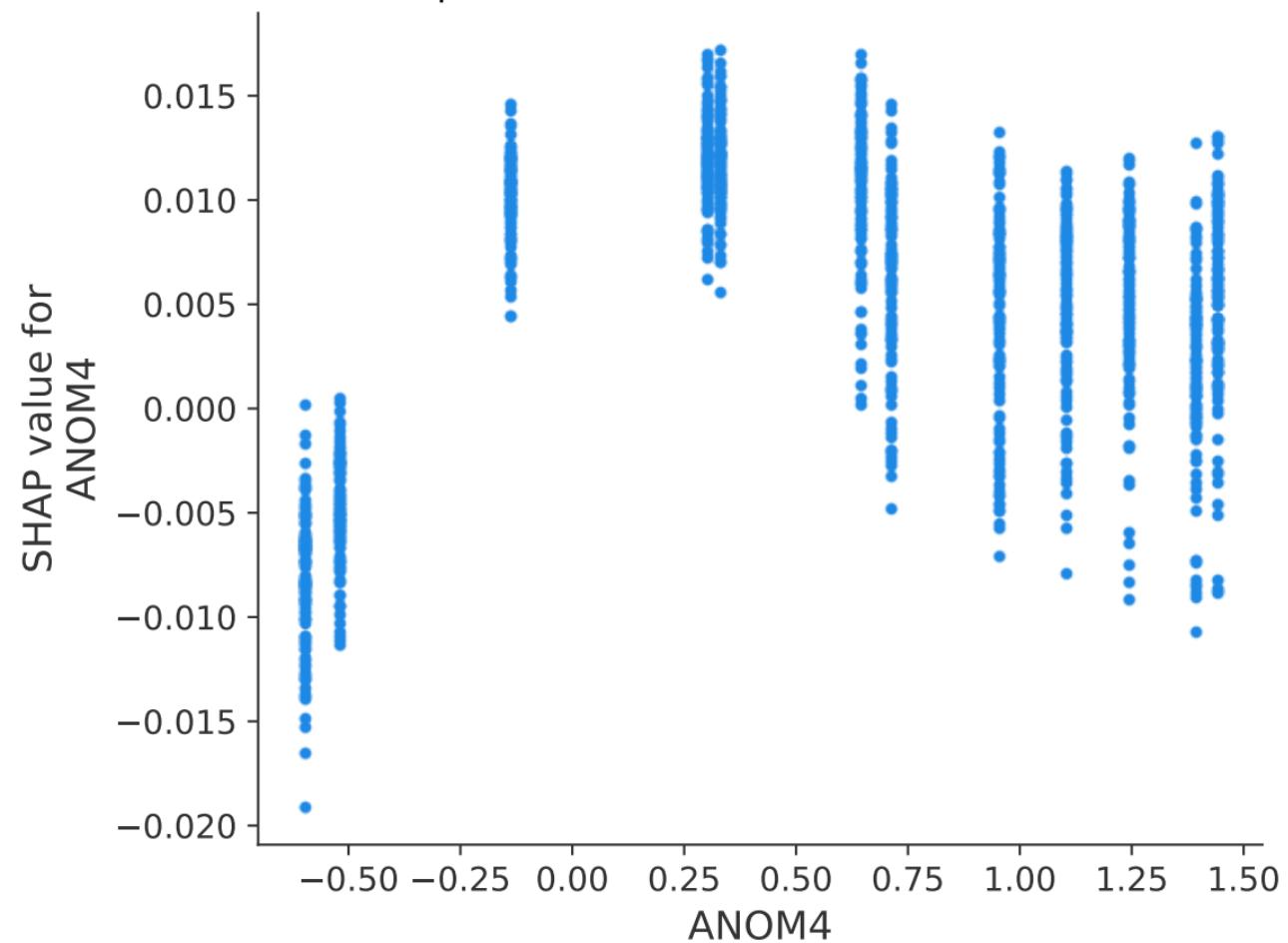


SHAP Dependence Plot for ANOM4, Class 0 - Sumatra

SHAP value for
ANOM4

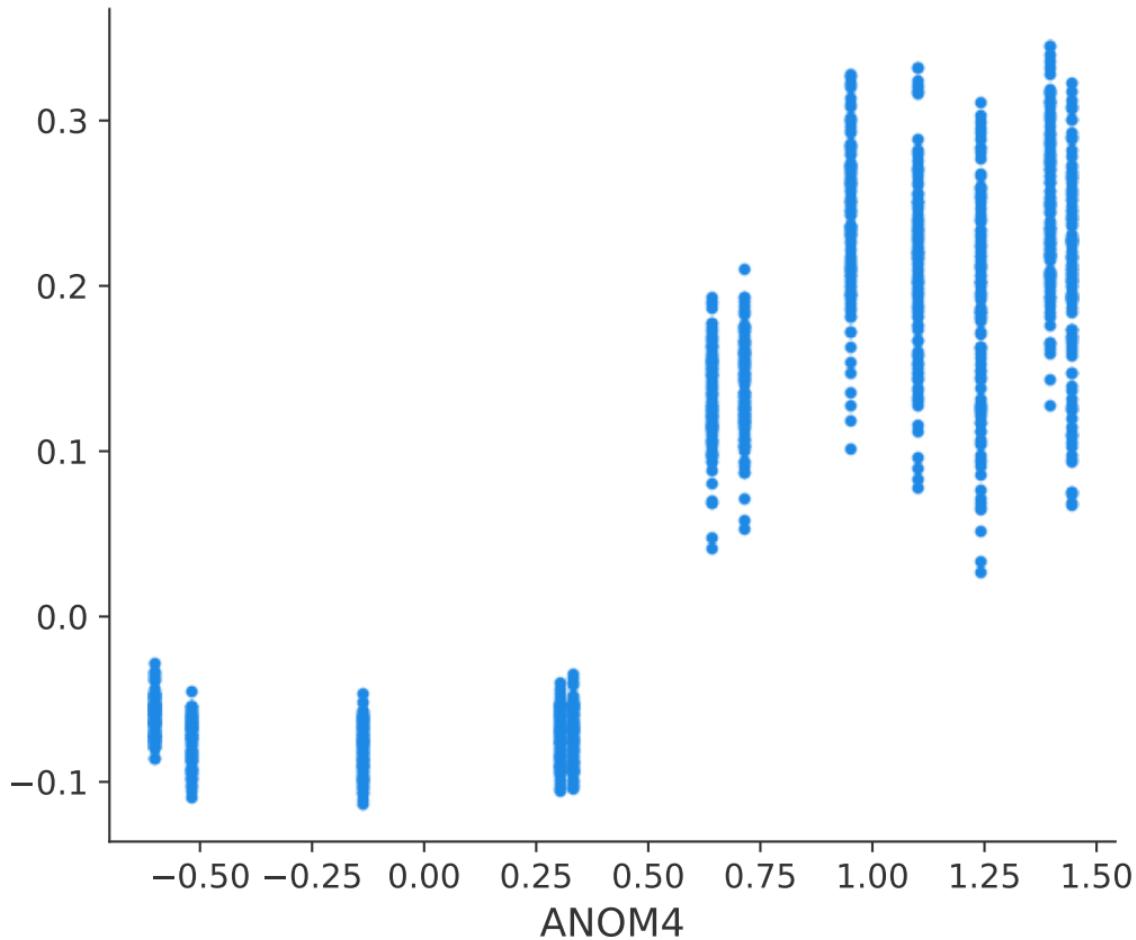


SHAP Dependence Plot for ANOM4, Class 1 - Sumatra



SHAP Dependence Plot for ANOM4, Class 2 - Sumatra

SHAP value for
ANOM4



SHAP Dependence Plot for Class_90, Class 0 - Sumatra

SHAP value for
Class_90

0.2

0.1

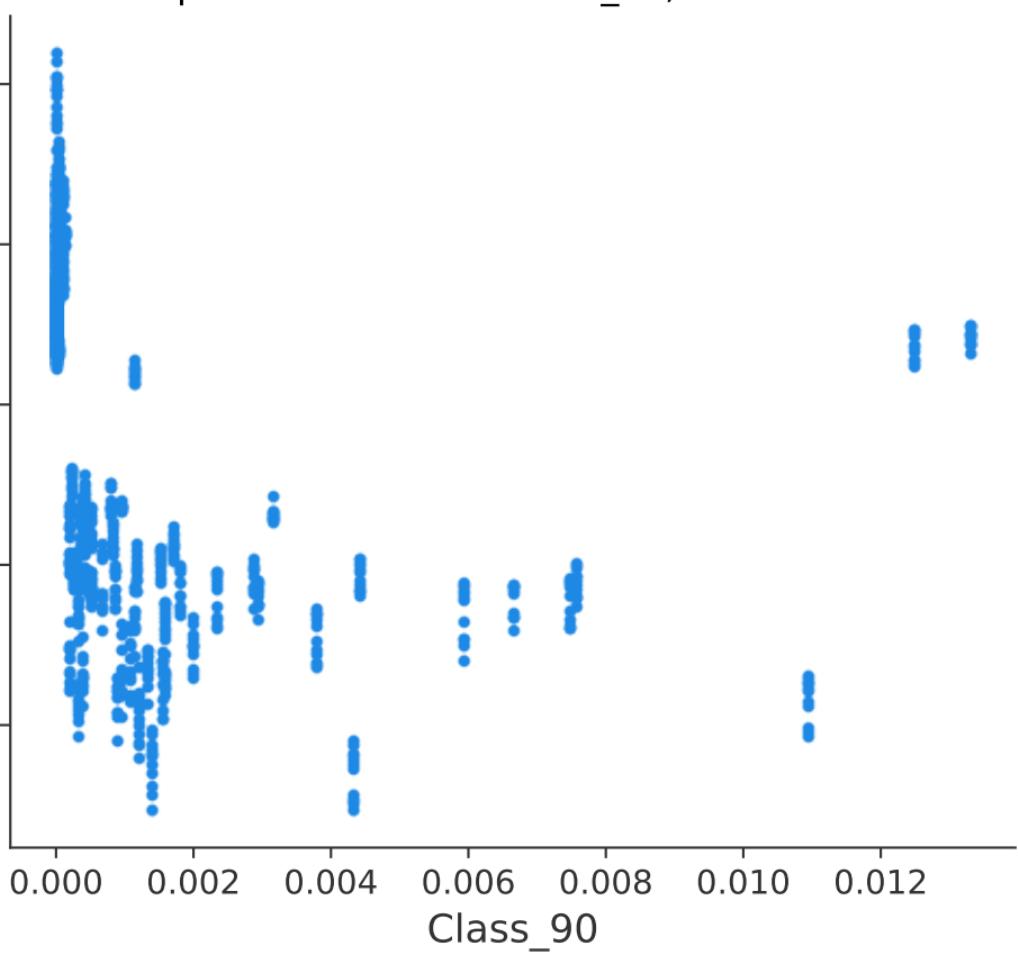
0.0

-0.1

-0.2

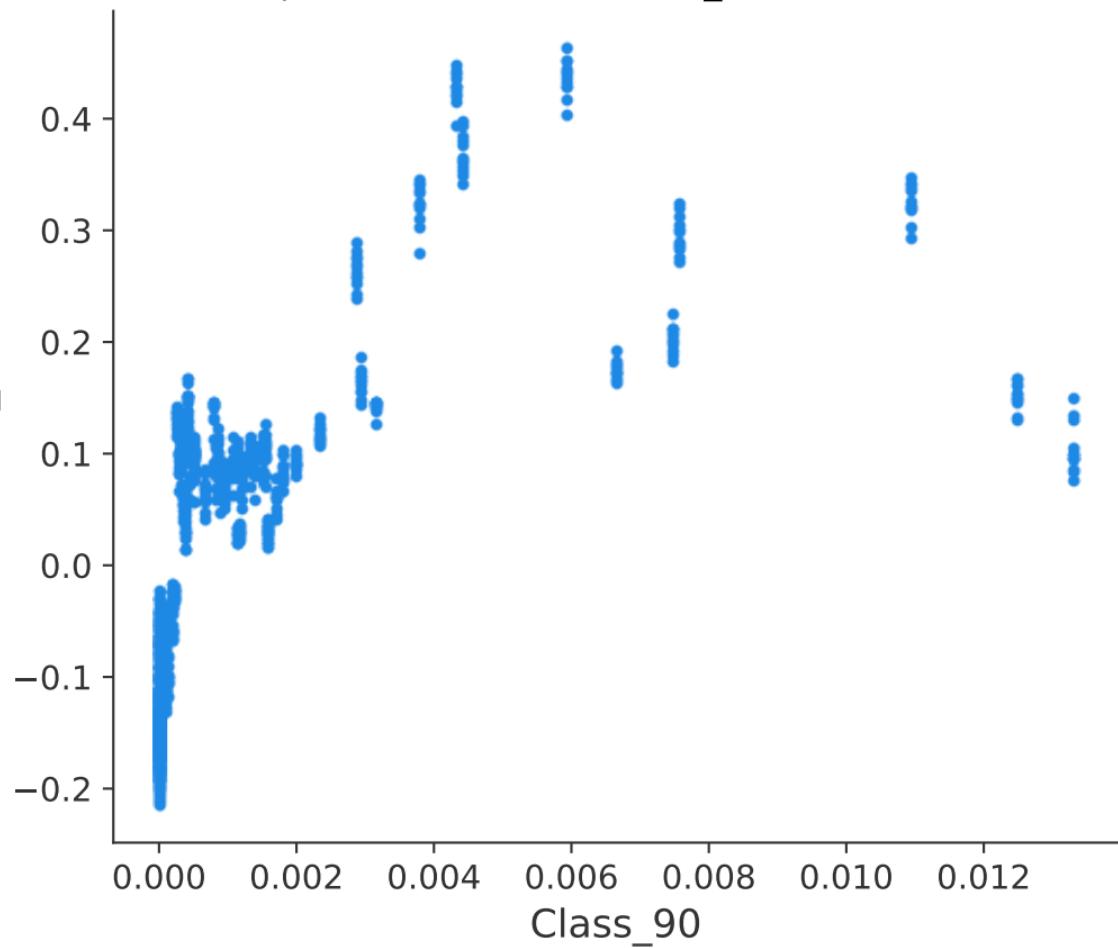
0.000 0.002 0.004 0.006 0.008 0.010 0.012

Class_90



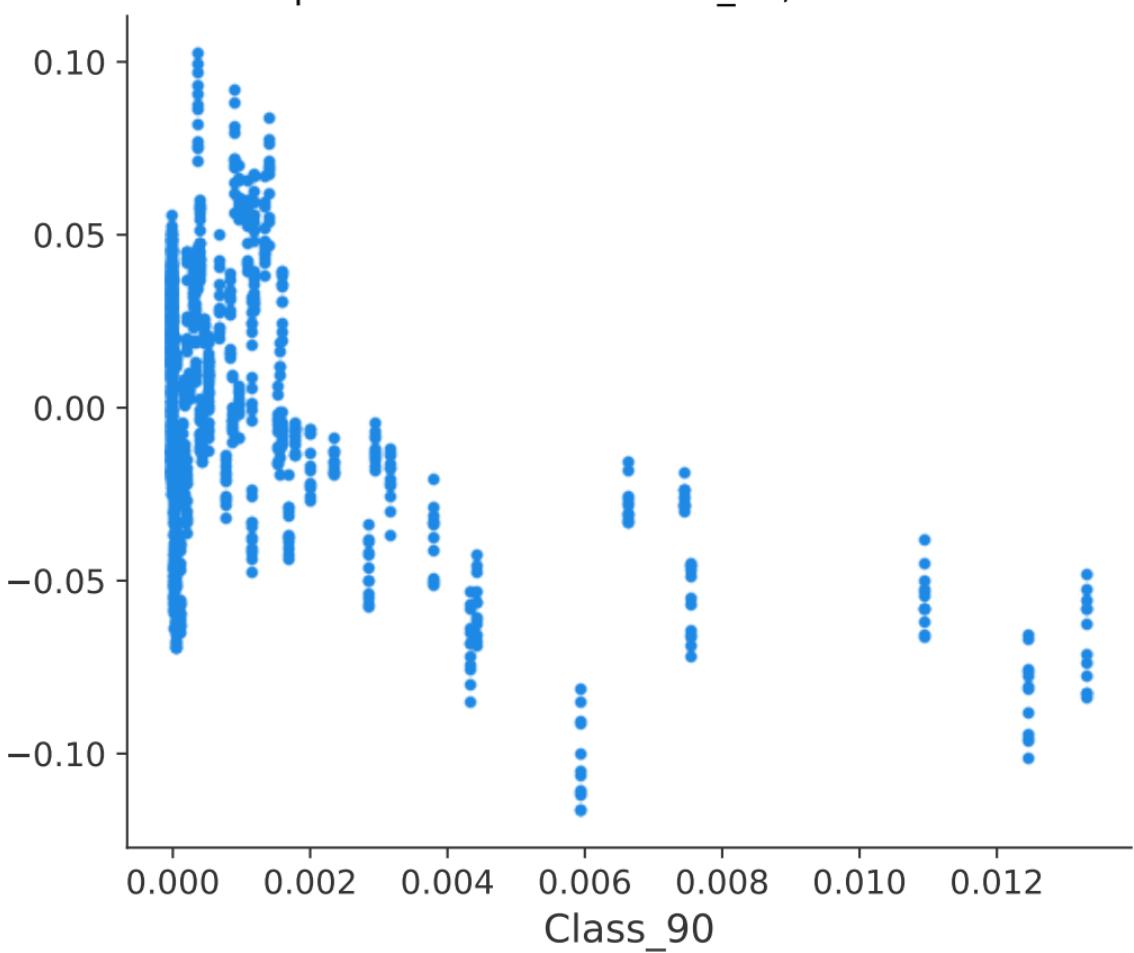
SHAP Dependence Plot for Class_90, Class 1 - Sumatra

SHAP value for
Class_90



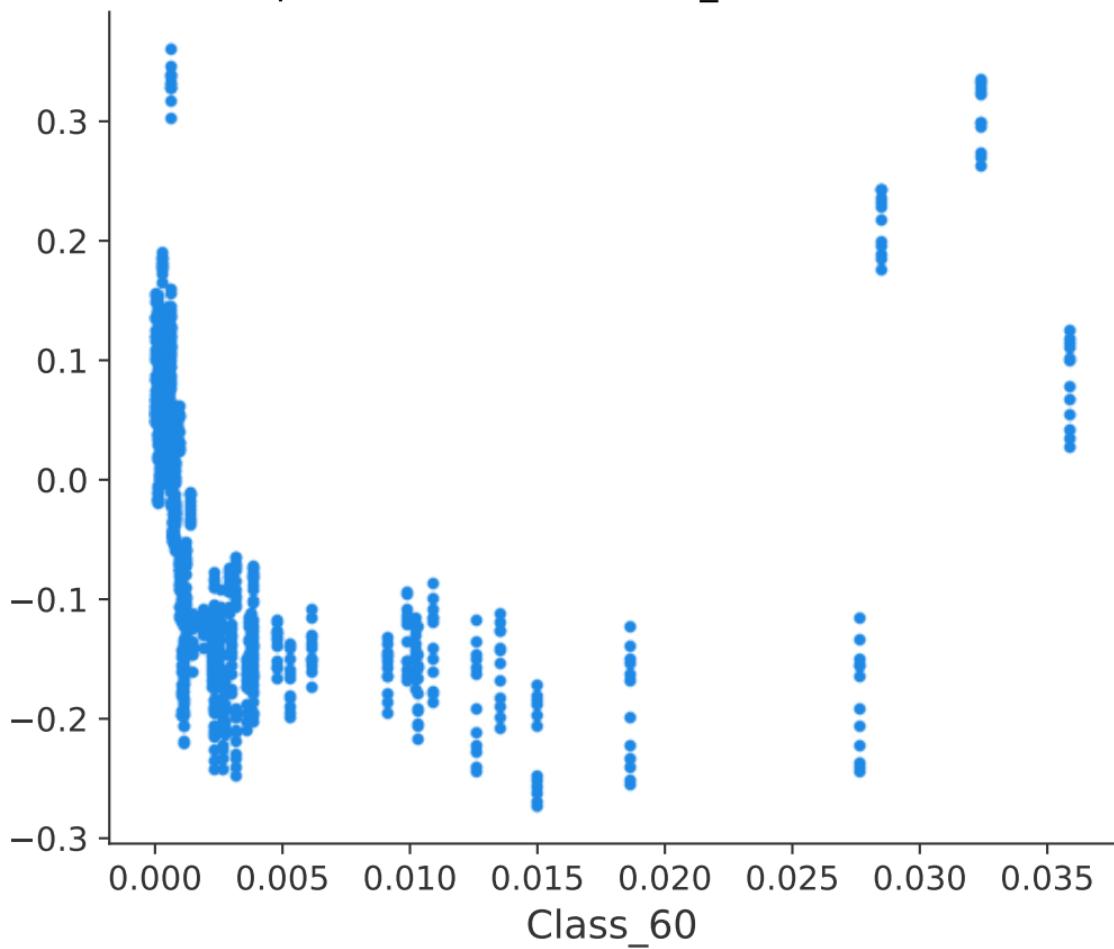
SHAP Dependence Plot for Class_90, Class 2 - Sumatra

SHAP value for
Class_90



SHAP Dependence Plot for Class_60, Class 0 - Sumatra

SHAP value for
Class_60



SHAP Dependence Plot for Class_60, Class 1 - Sumatra

SHAP value for
Class_60

0.05

0.00

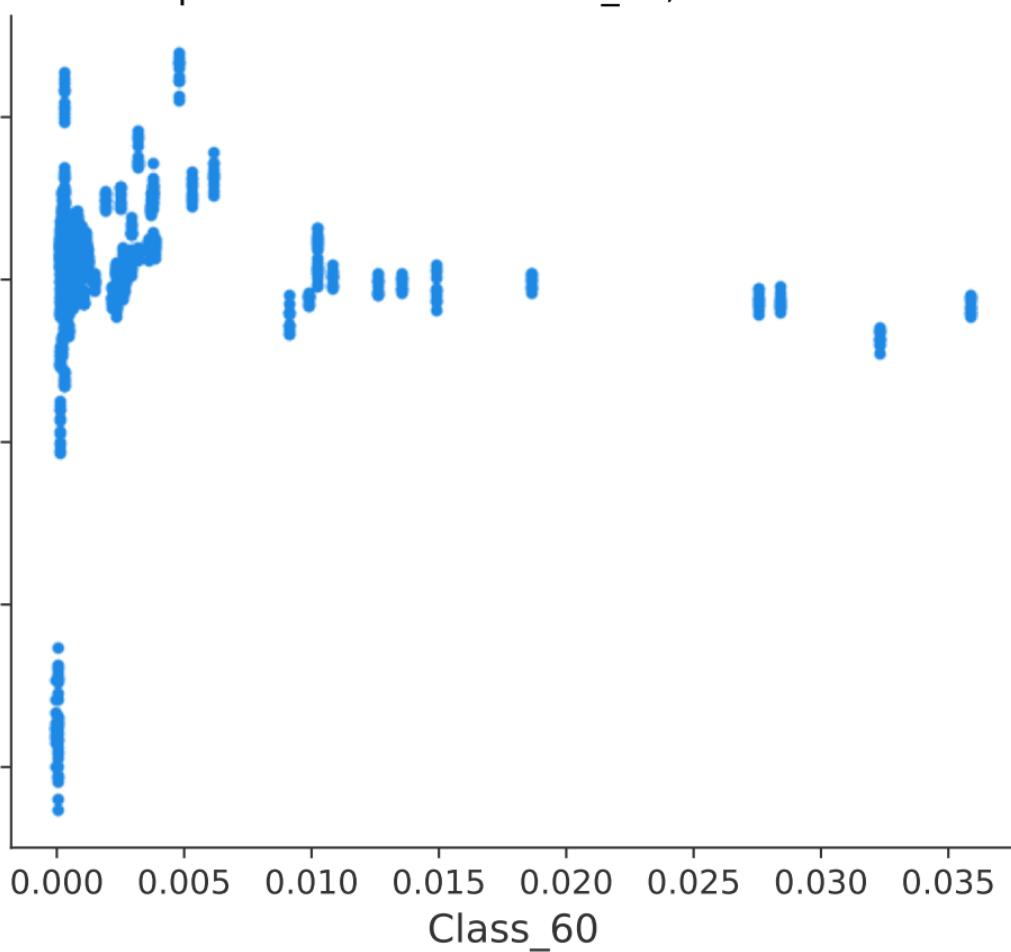
-0.05

-0.10

-0.15

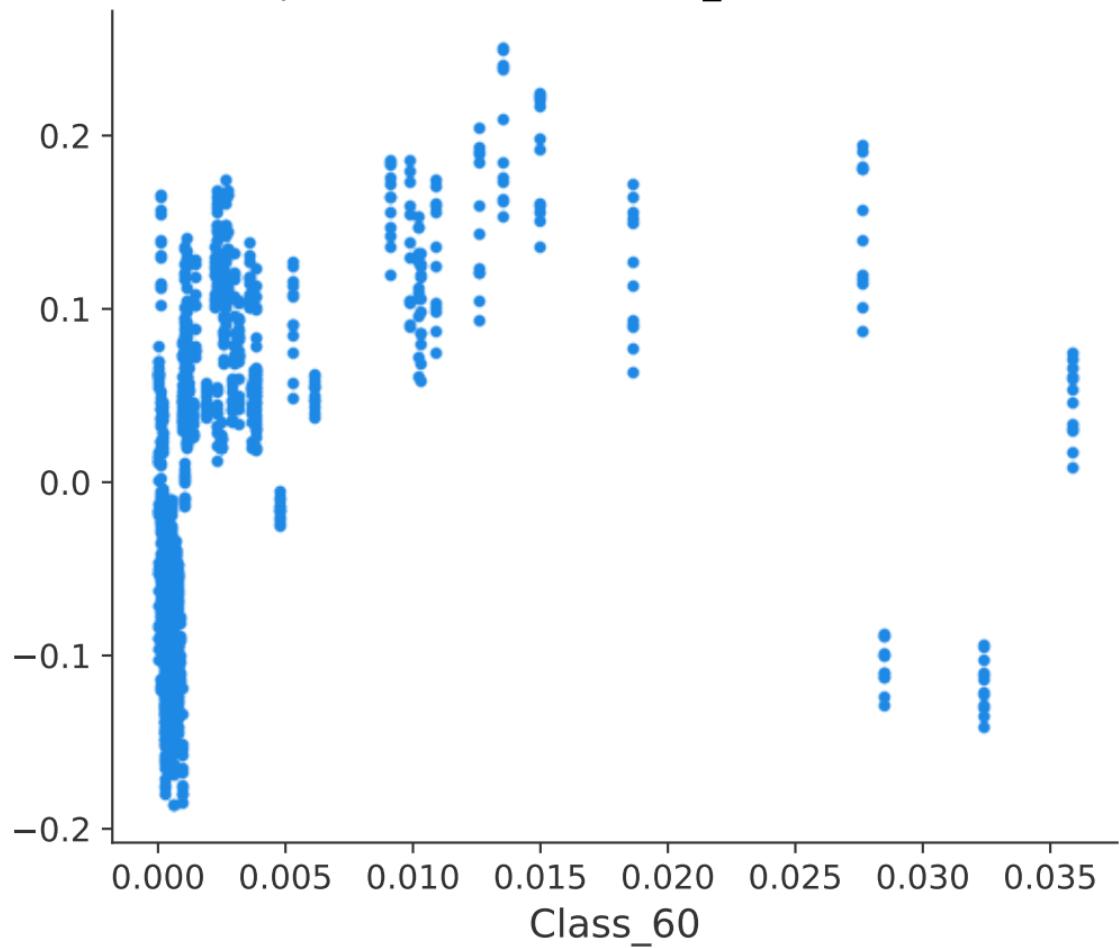
0.000 0.005 0.010 0.015 0.020 0.025 0.030 0.035

Class_60

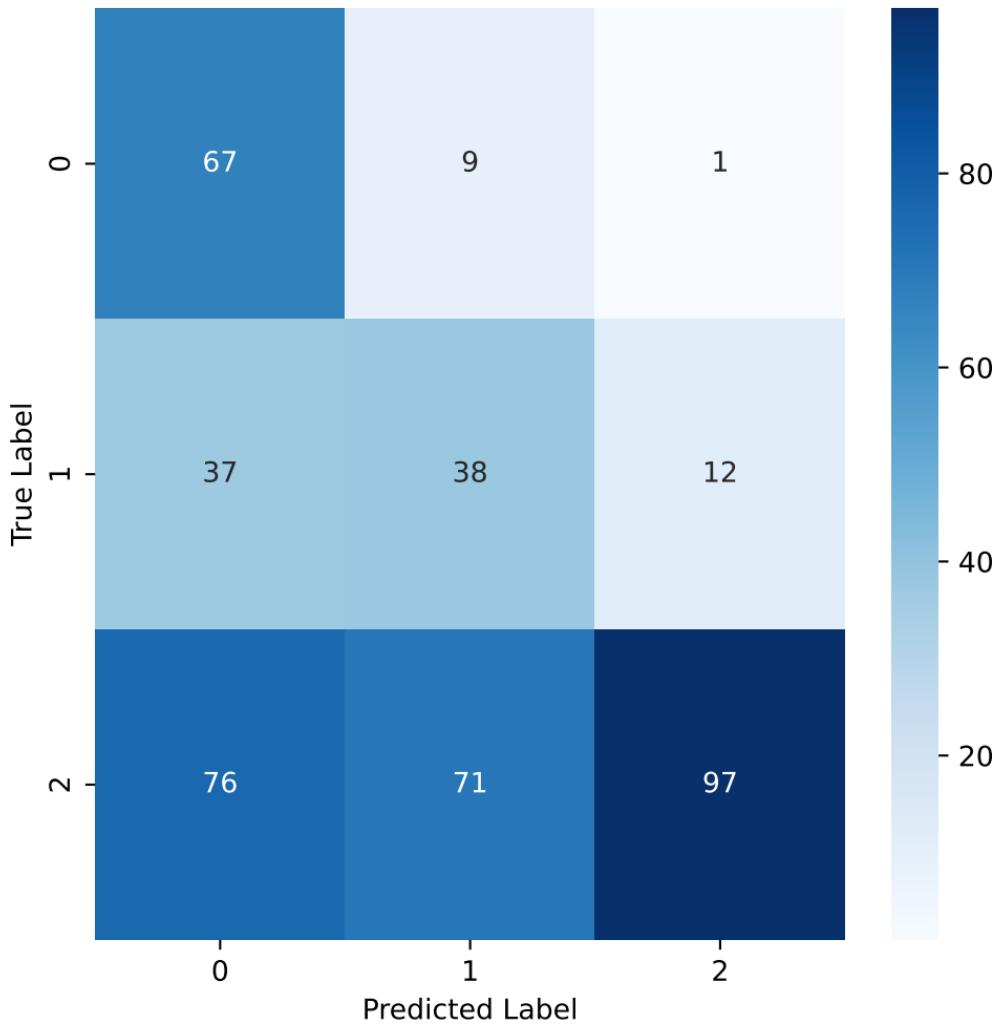


SHAP Dependence Plot for Class_60, Class 2 - Sumatra

SHAP value for
Class_60



Confusion Matrix - Nusa Tenggara

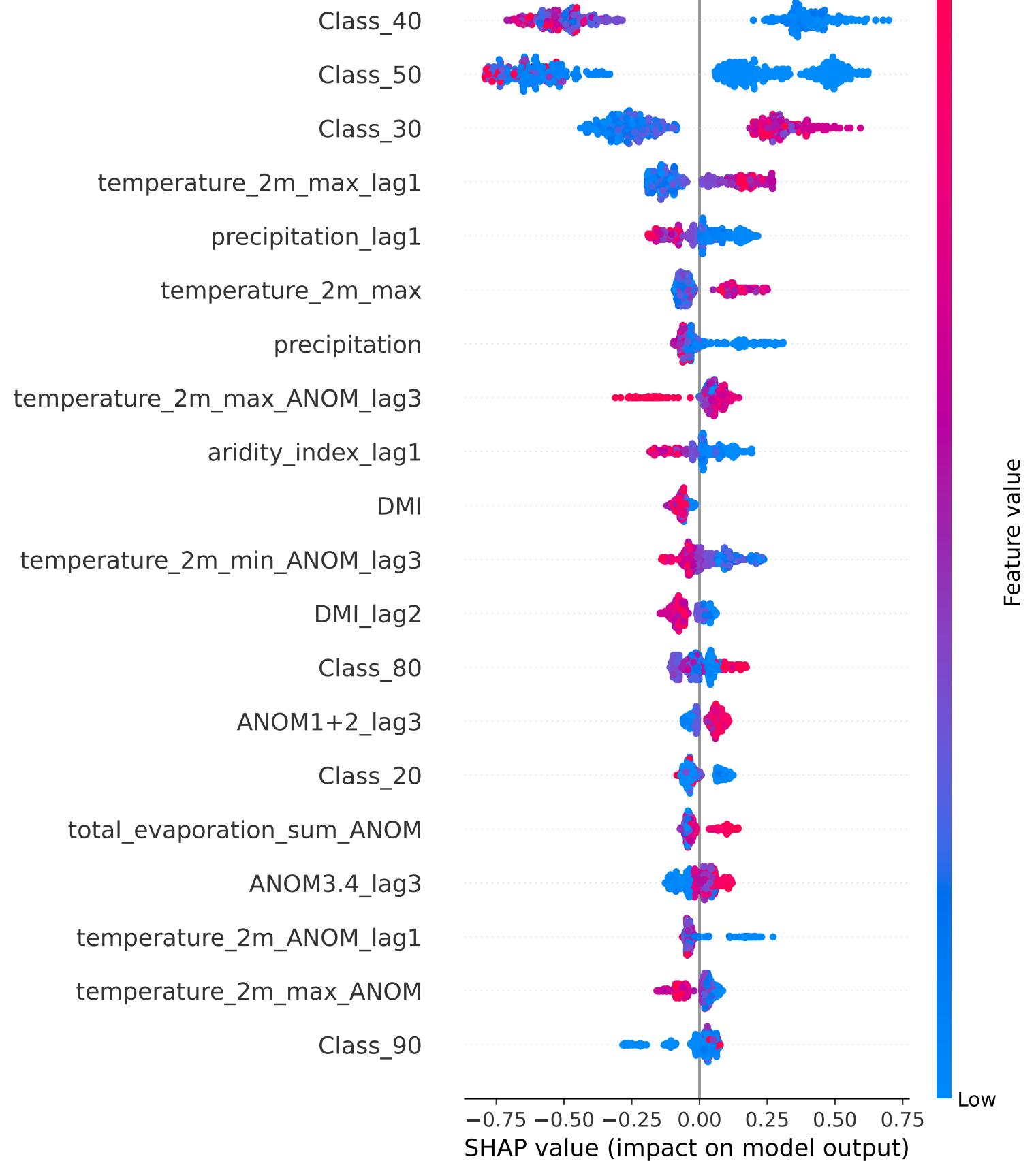


SHAP Beeswarm Plot for Class 0 - Nusa Tenggara

High

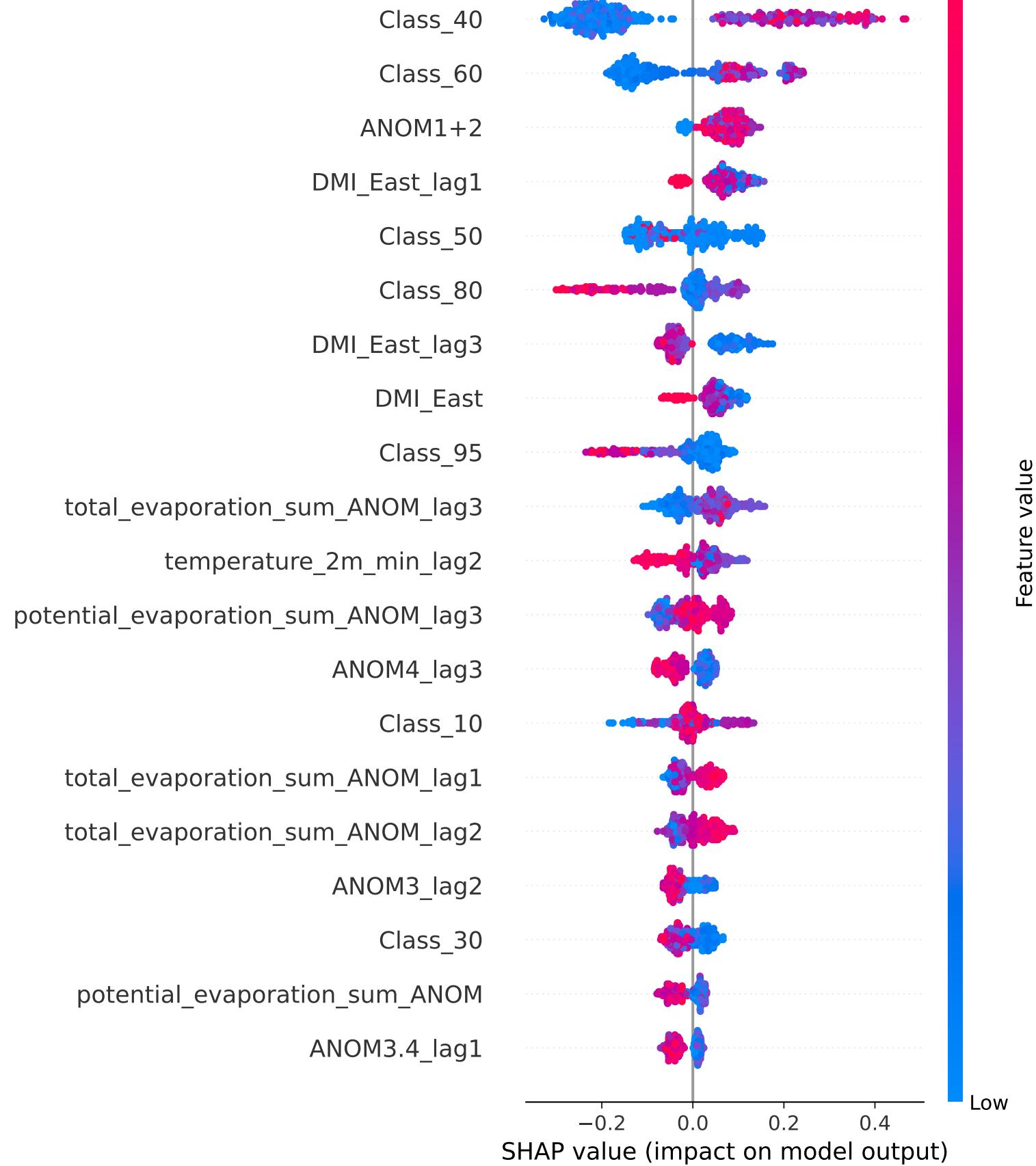
Feature value

Low



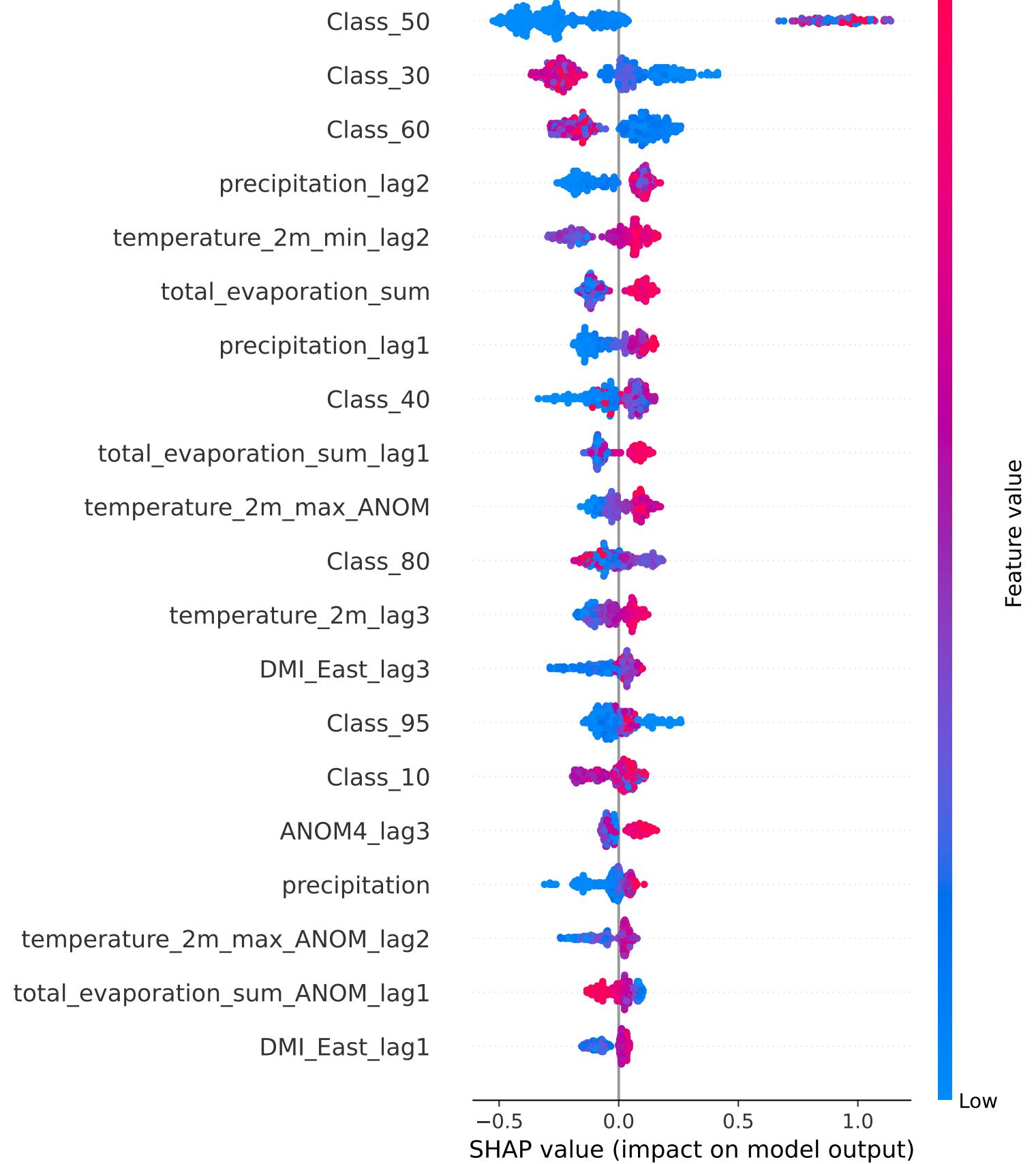
SHAP Beeswarm Plot for Class 1 - Nusa Tenggara

High



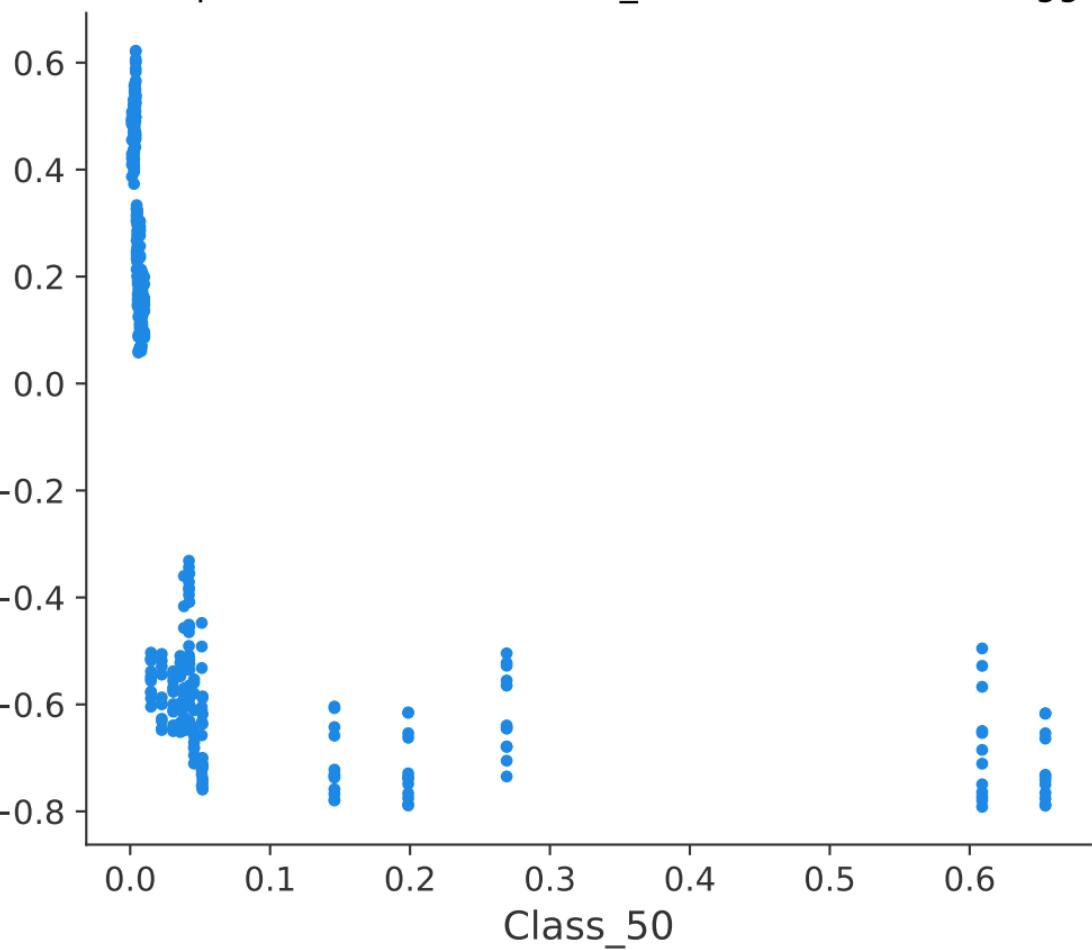
SHAP Beeswarm Plot for Class 2 - Nusa Tenggara

High



SHAP Dependence Plot for Class_50, Class 0 - Nusa Tenggara

SHAP value for
Class_50



SHAP Dependence Plot for Class_50, Class 1 - Nusa Tenggara

SHAP value for
Class_50

0.15

0.10

0.05

0.00

-0.05

-0.10

-0.15

0.0

0.1

0.2

Class_50

0.3

0.4

0.5

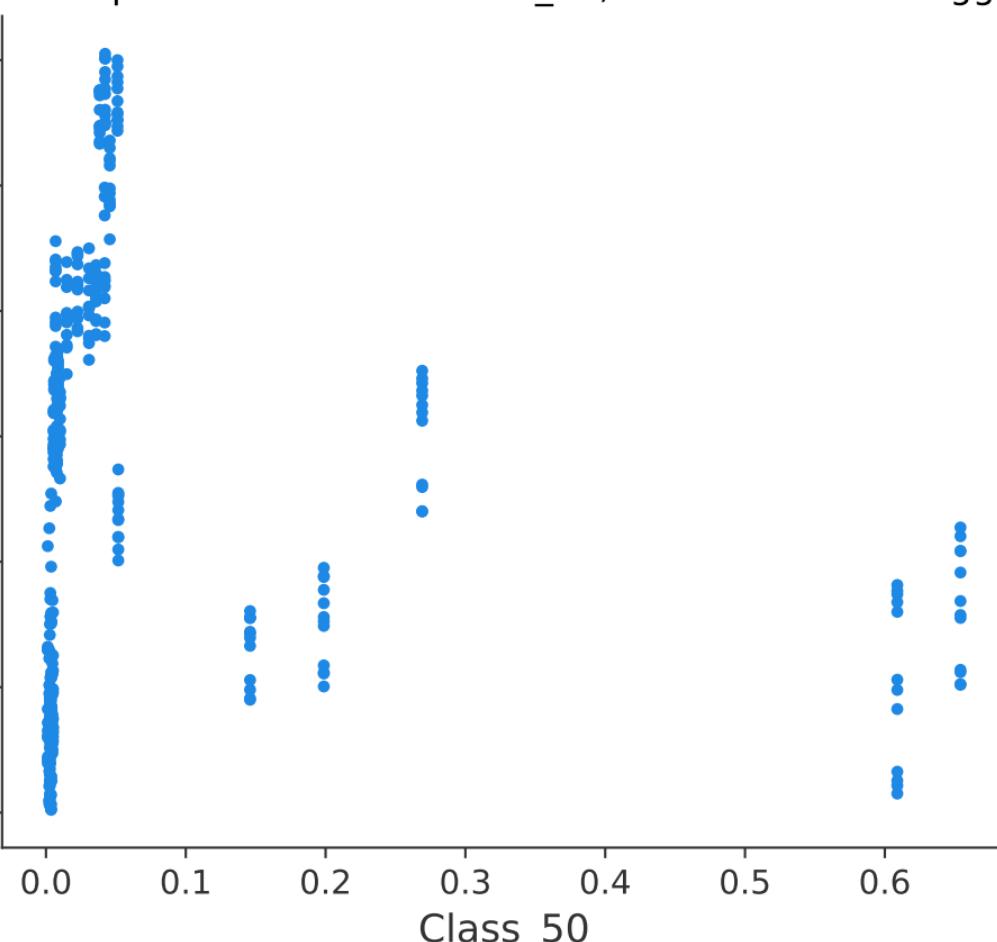
0.6

0.7

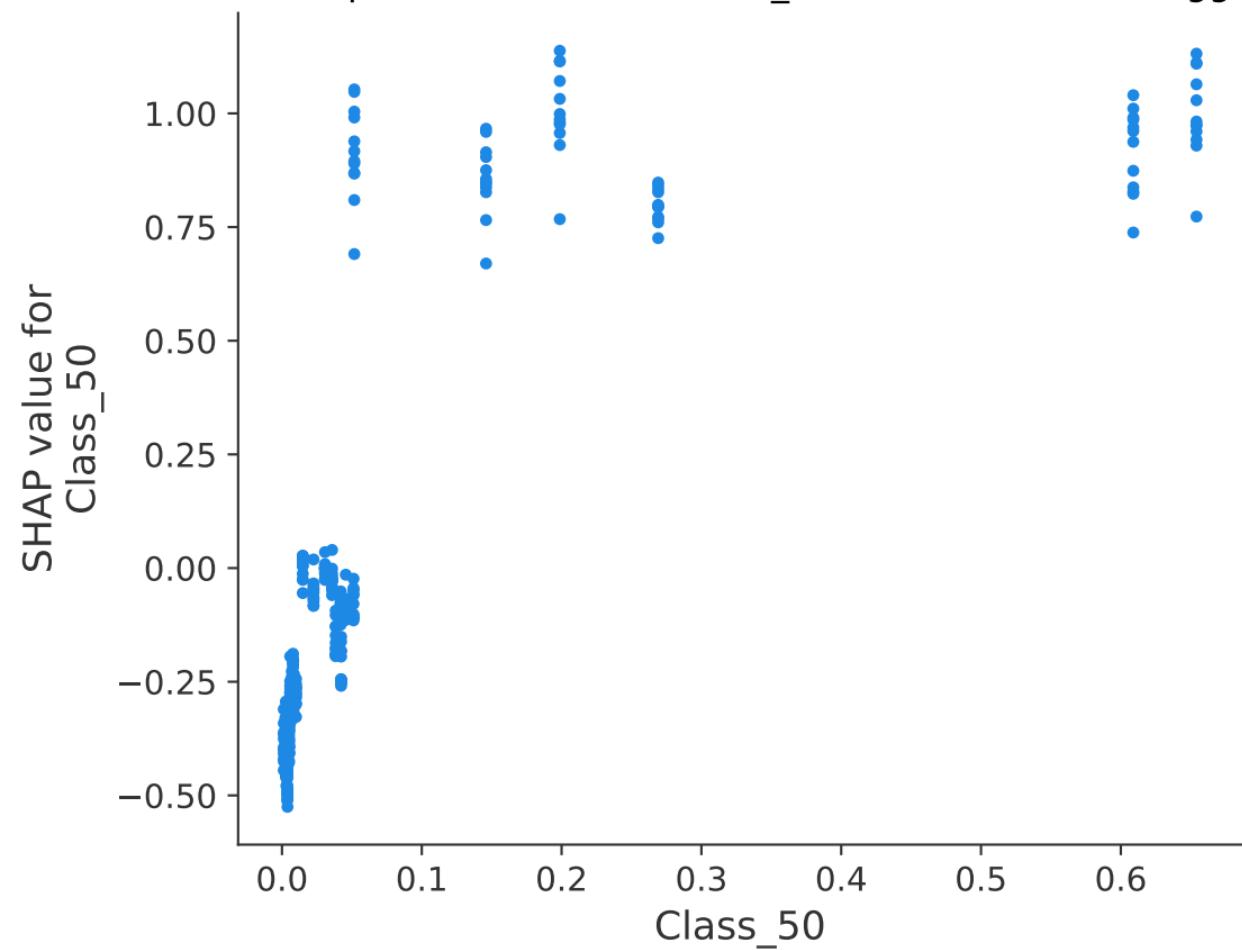
0.8

0.9

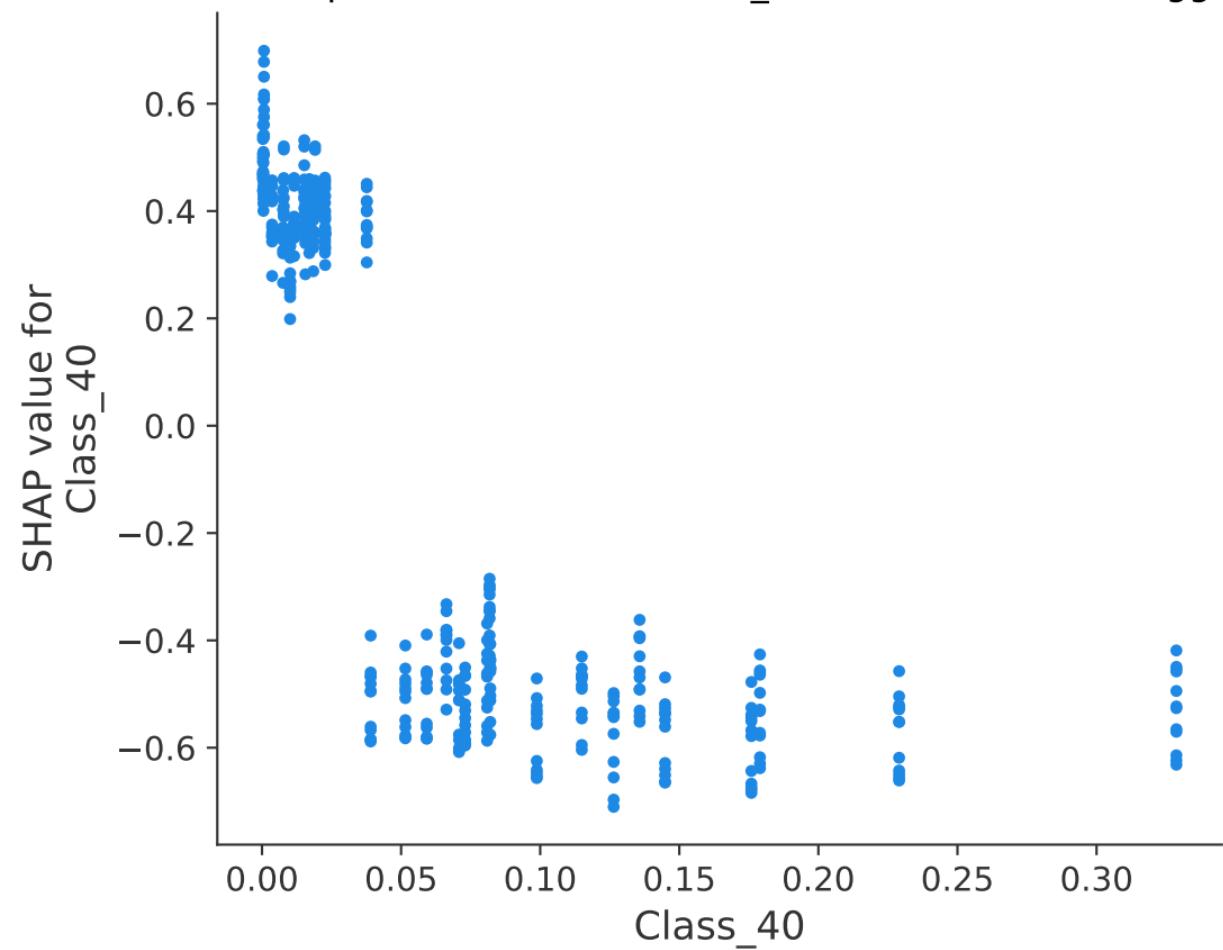
1.0



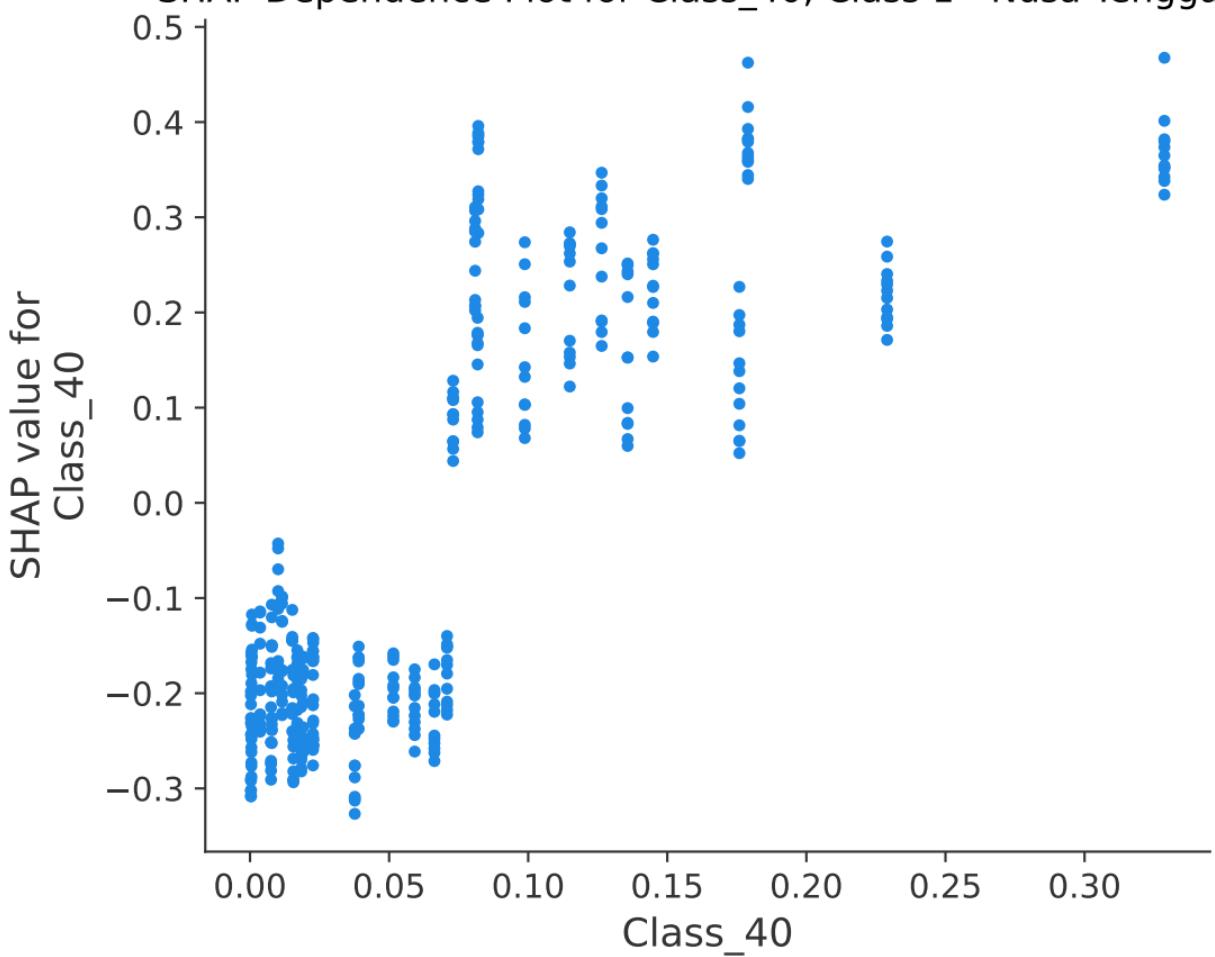
SHAP Dependence Plot for Class_50, Class 2 - Nusa Tenggara



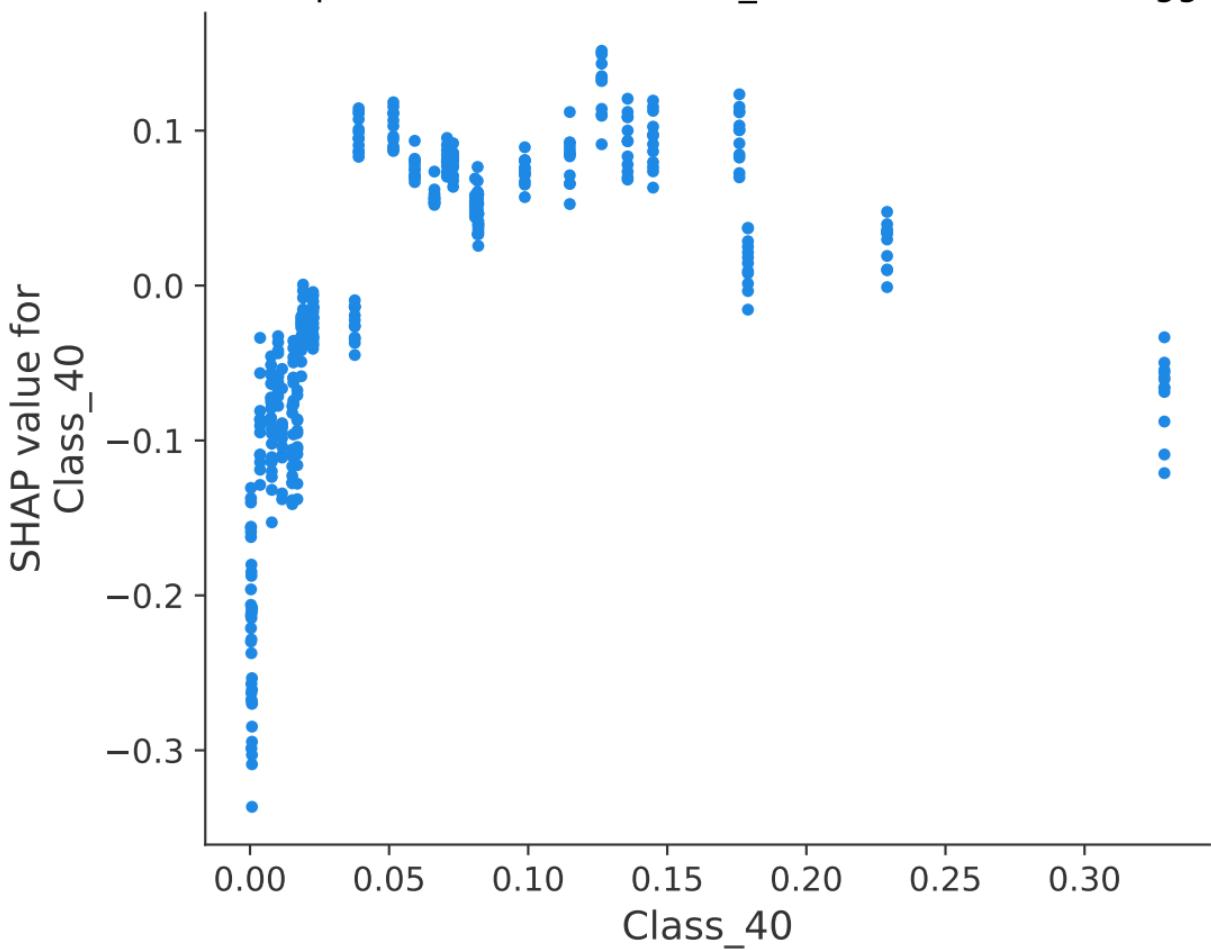
SHAP Dependence Plot for Class_40, Class 0 - Nusa Tenggara



SHAP Dependence Plot for Class_40, Class 1 - Nusa Tenggara

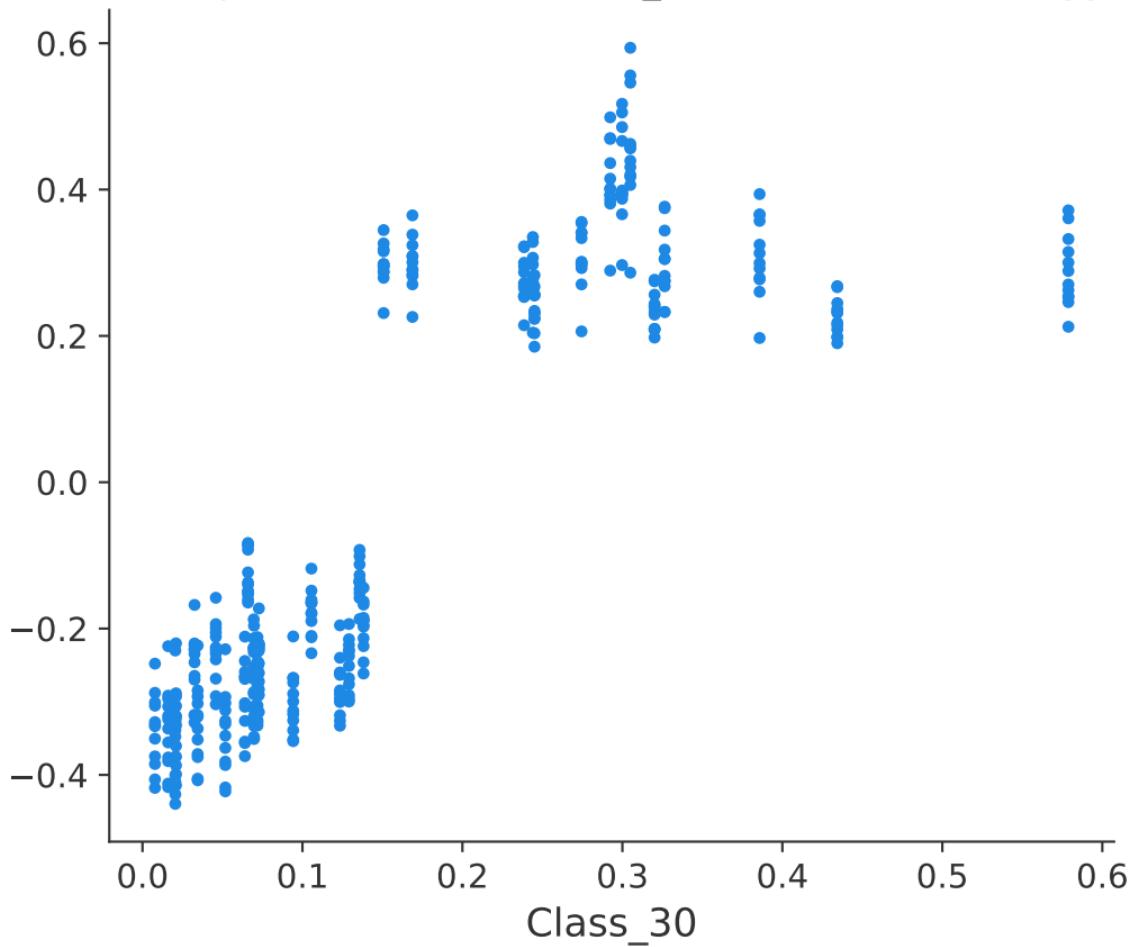


SHAP Dependence Plot for Class_40, Class 2 - Nusa Tenggara



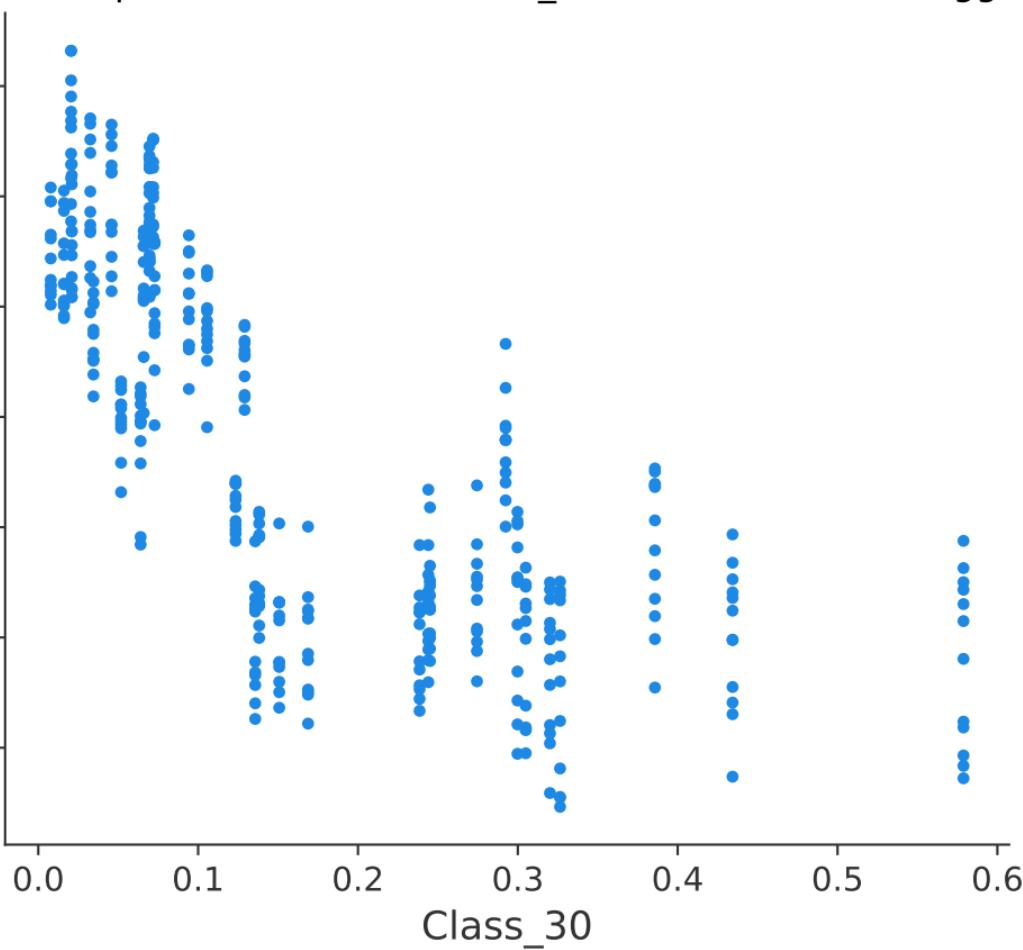
SHAP Dependence Plot for Class_30, Class 0 - Nusa Tenggara

SHAP value for
Class_30



SHAP Dependence Plot for Class_30, Class 1 - Nusa Tenggara

SHAP value for
Class_30



SHAP Dependence Plot for Class_30, Class 2 - Nusa Tenggara

SHAP value for
Class_30

0.0 0.1 0.2 0.3 0.4 0.5 0.6

Class_30

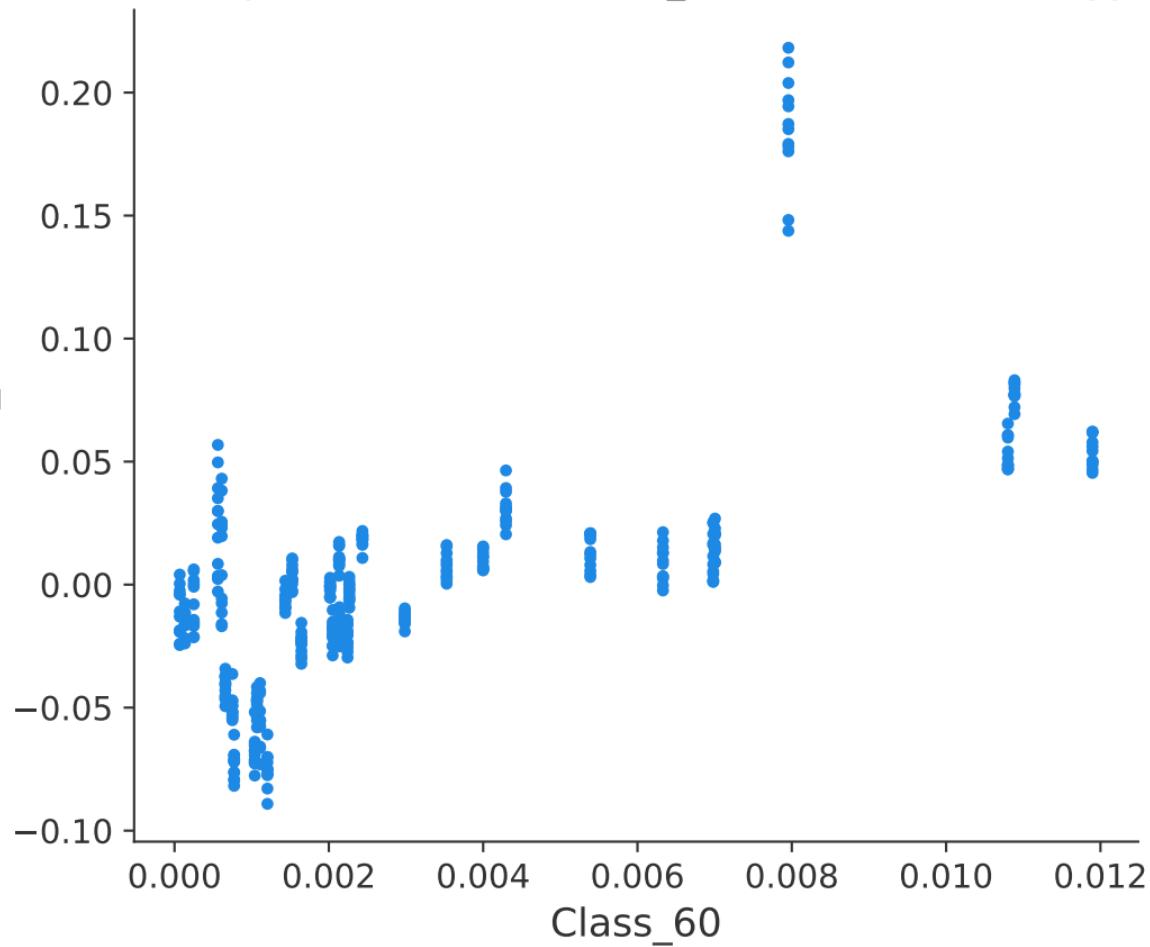
0.4
0.3
0.2
0.1
0.0
-0.1
-0.2
-0.3
-0.4

0.0 0.1 0.2 0.3 0.4 0.5 0.6

Class_30

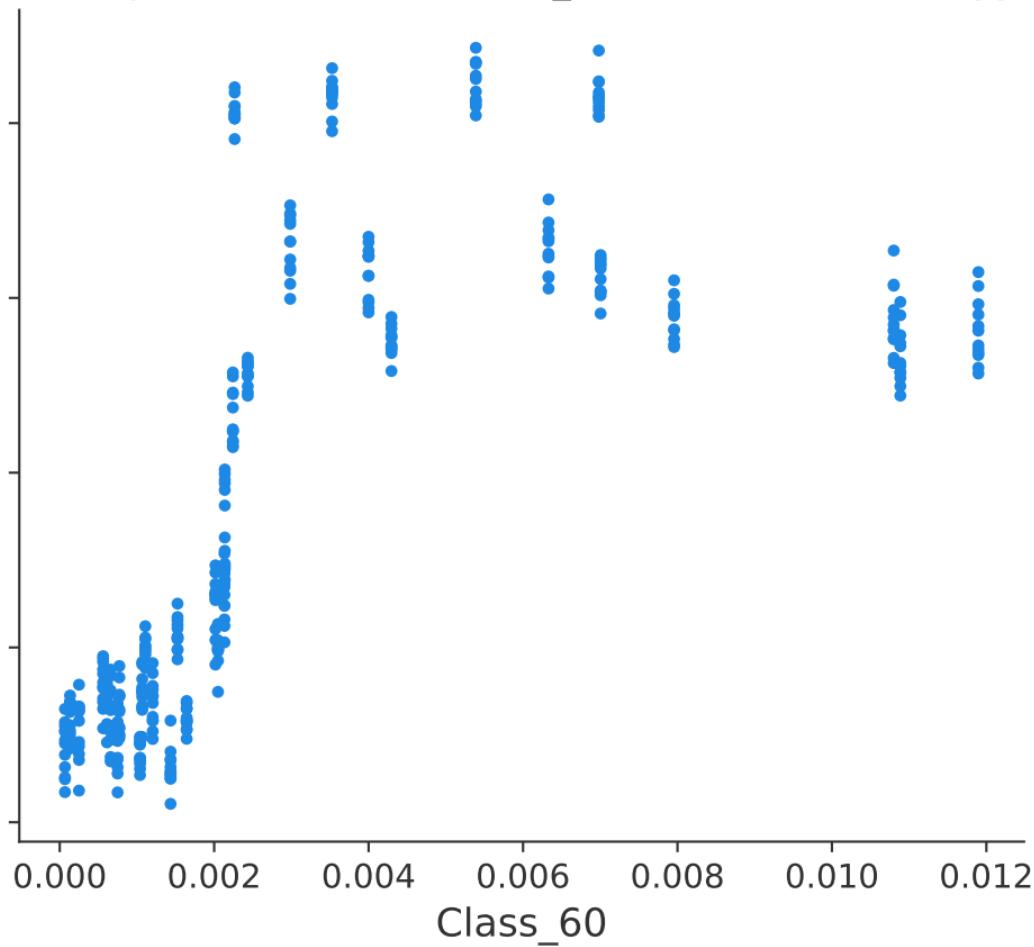
SHAP Dependence Plot for Class_60, Class 0 - Nusa Tenggara

SHAP value for
Class_60

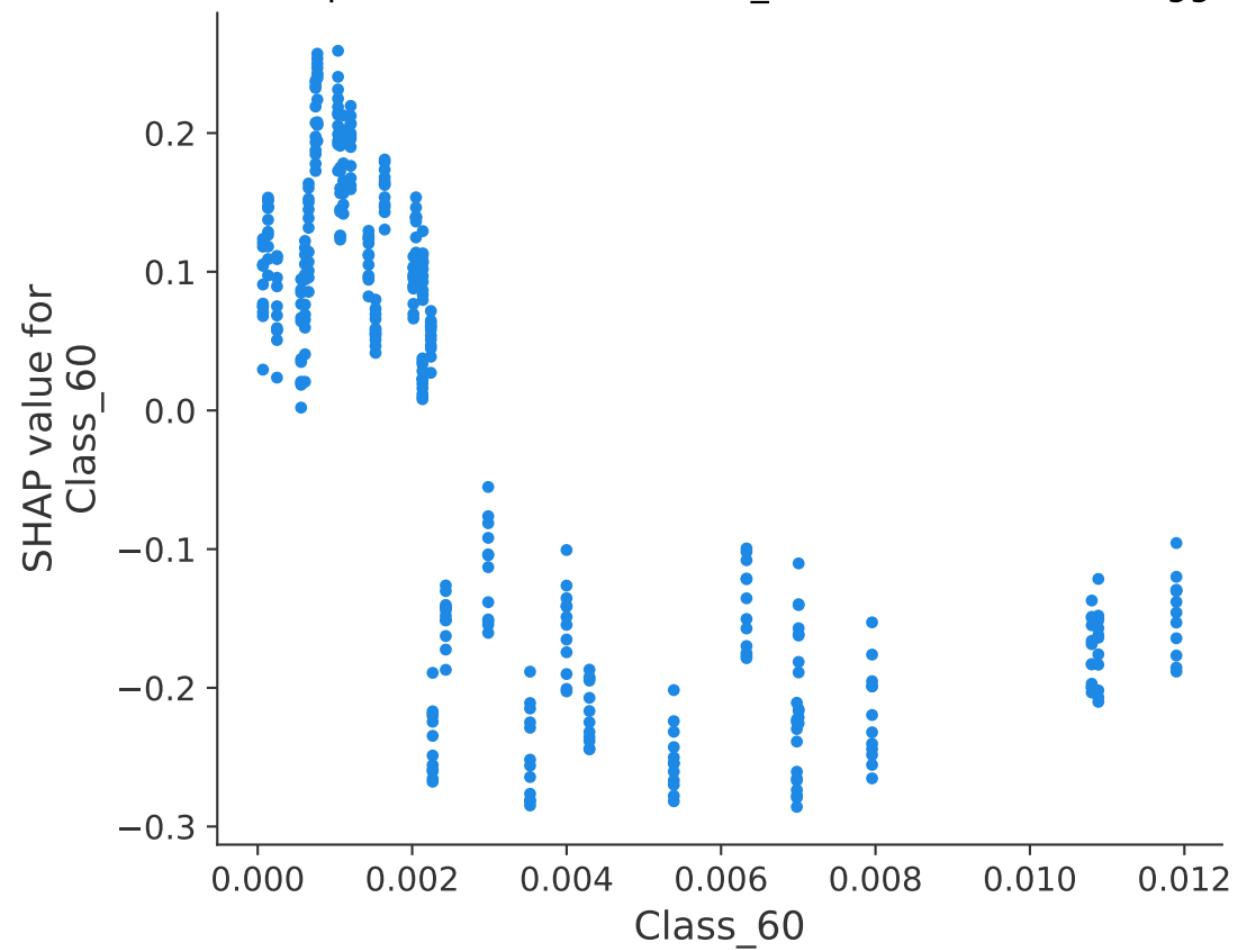


SHAP Dependence Plot for Class_60, Class 1 - Nusa Tenggara

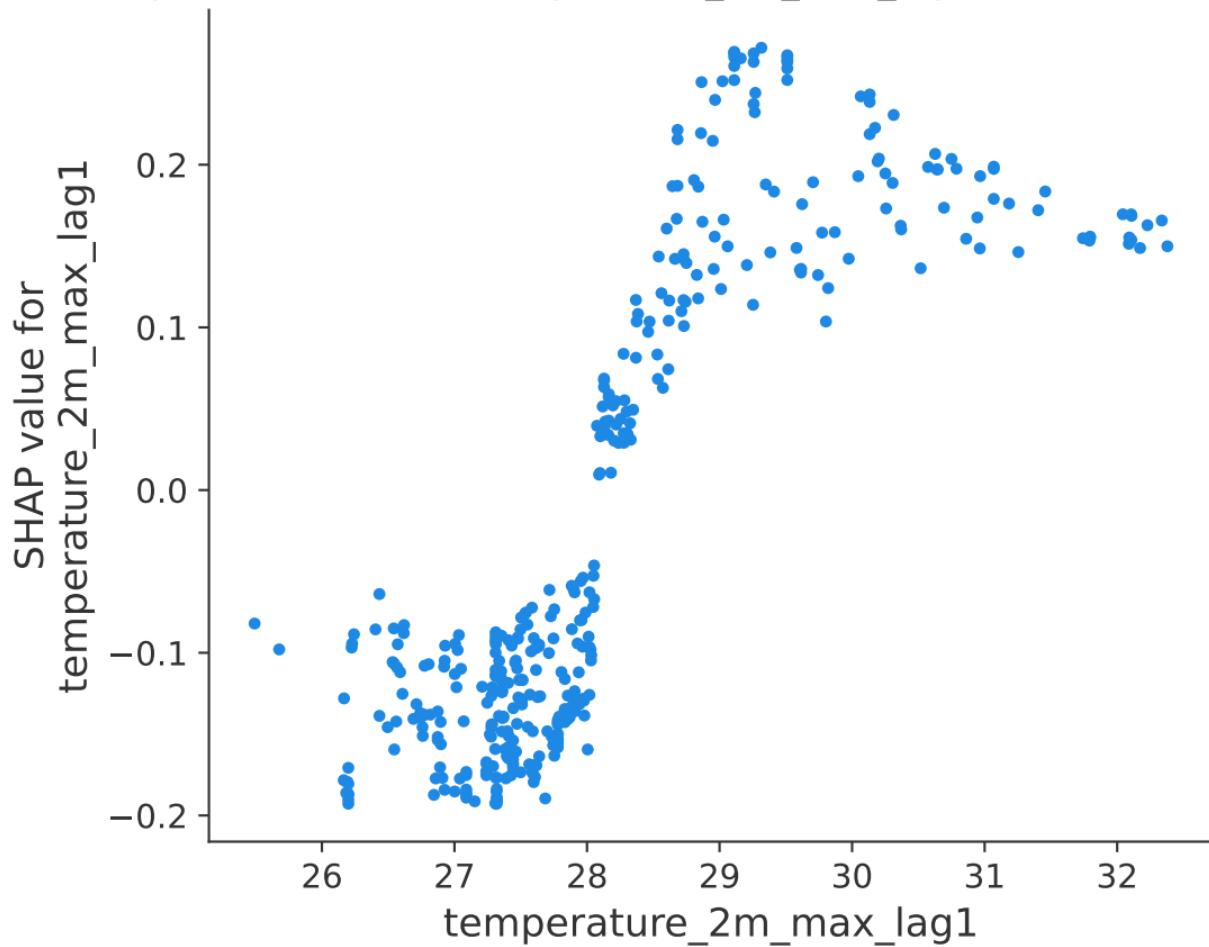
SHAP value for
Class_60



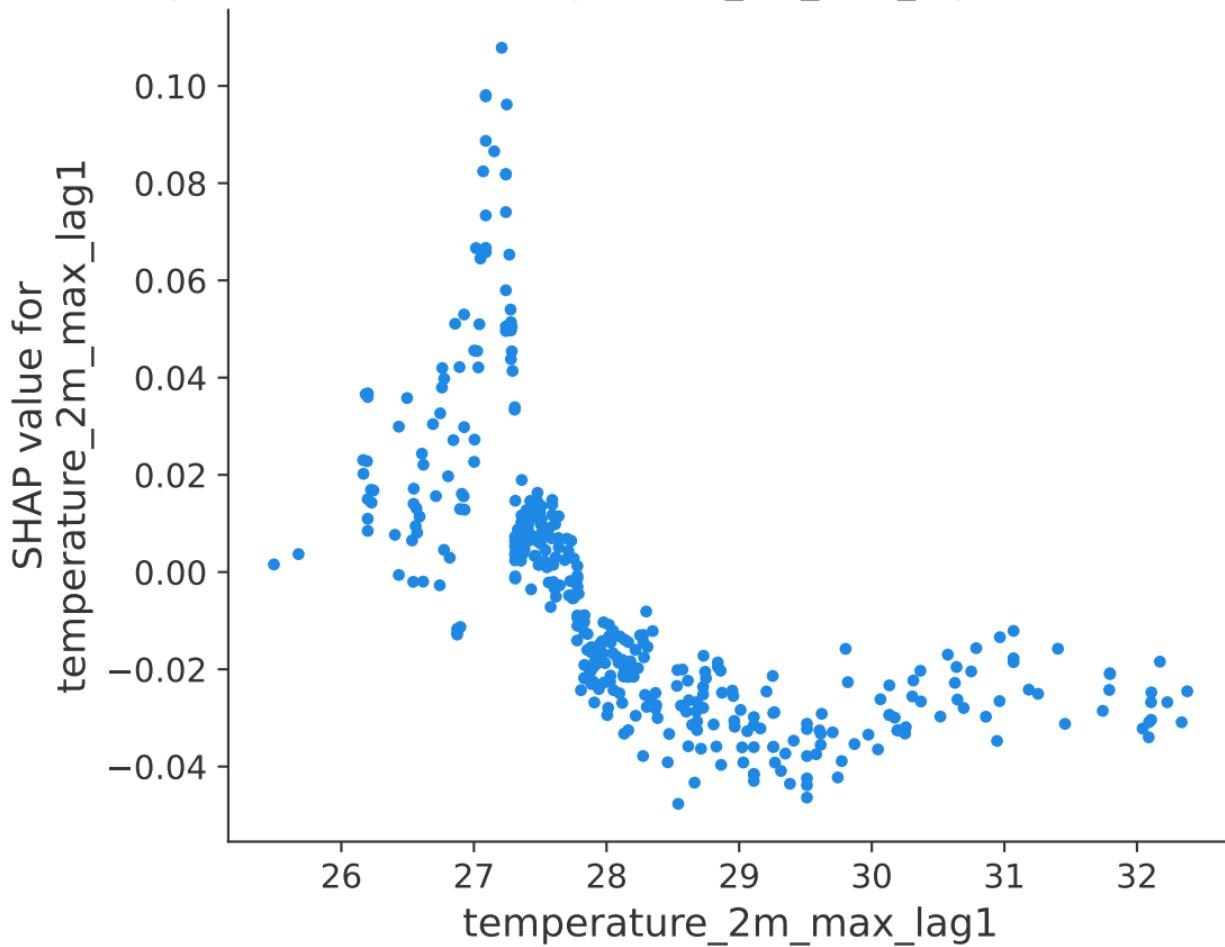
SHAP Dependence Plot for Class_60, Class 2 - Nusa Tenggara



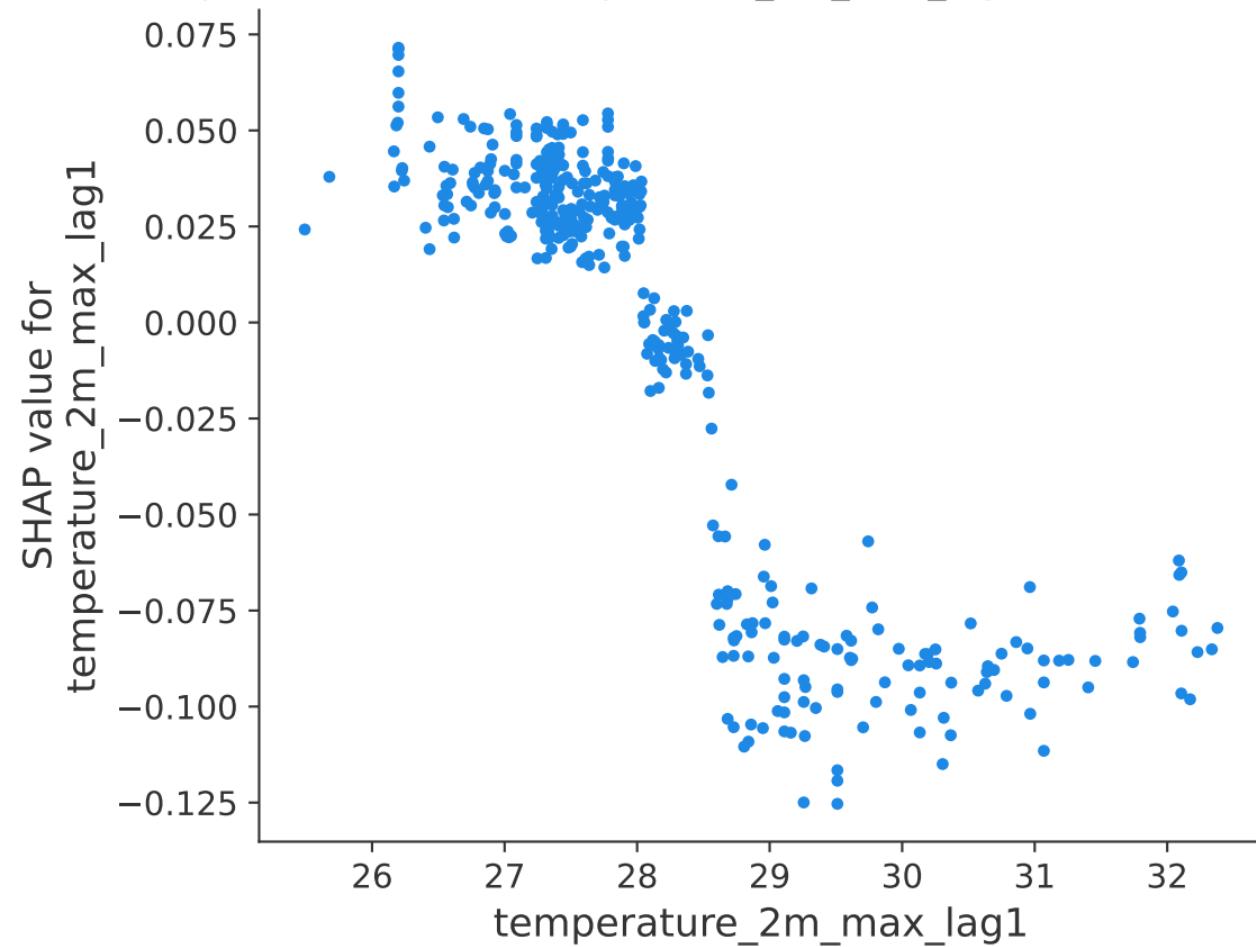
SHAP Dependence Plot for temperature_2m_max_lag1, Class 0 - Nusa Tenggara



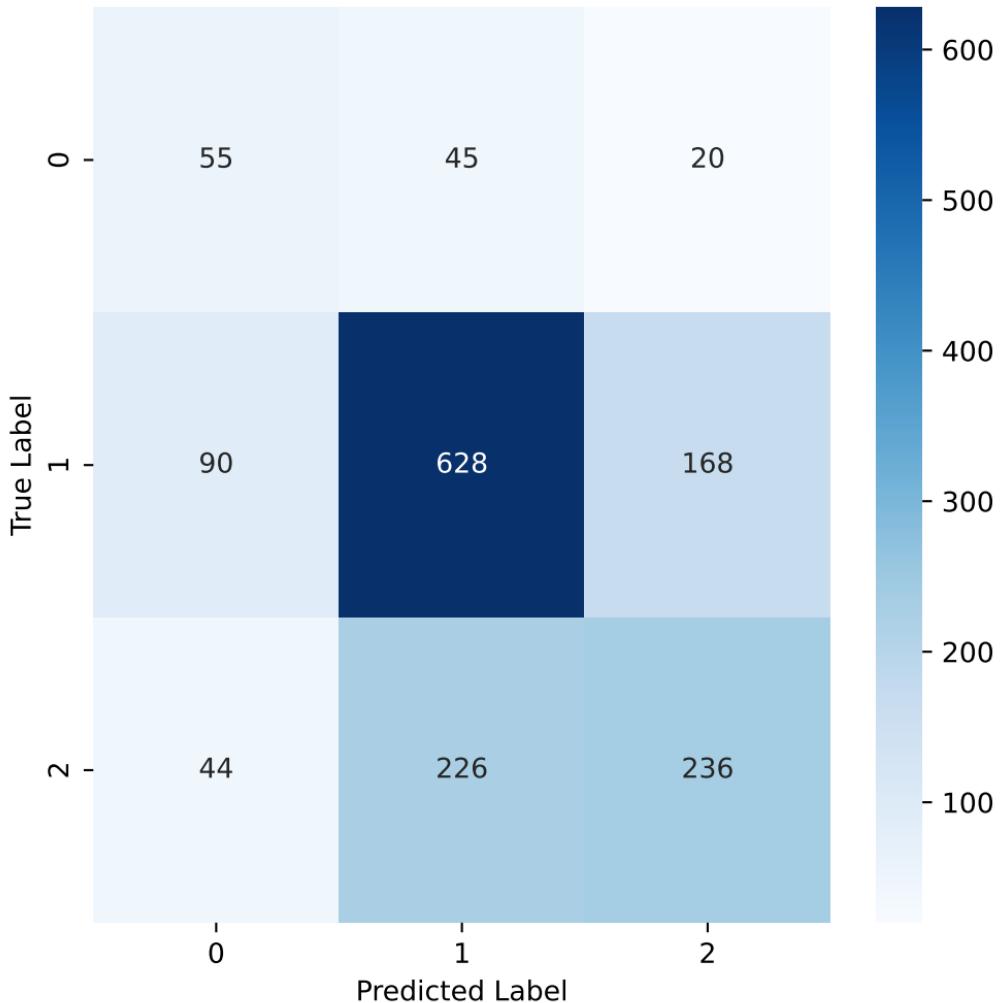
SHAP Dependence Plot for temperature_2m_max_lag1, Class 1 - Nusa Tenggara



SHAP Dependence Plot for temperature_2m_max_lag1, Class 2 - Nusa Tenggara



Confusion Matrix - Java

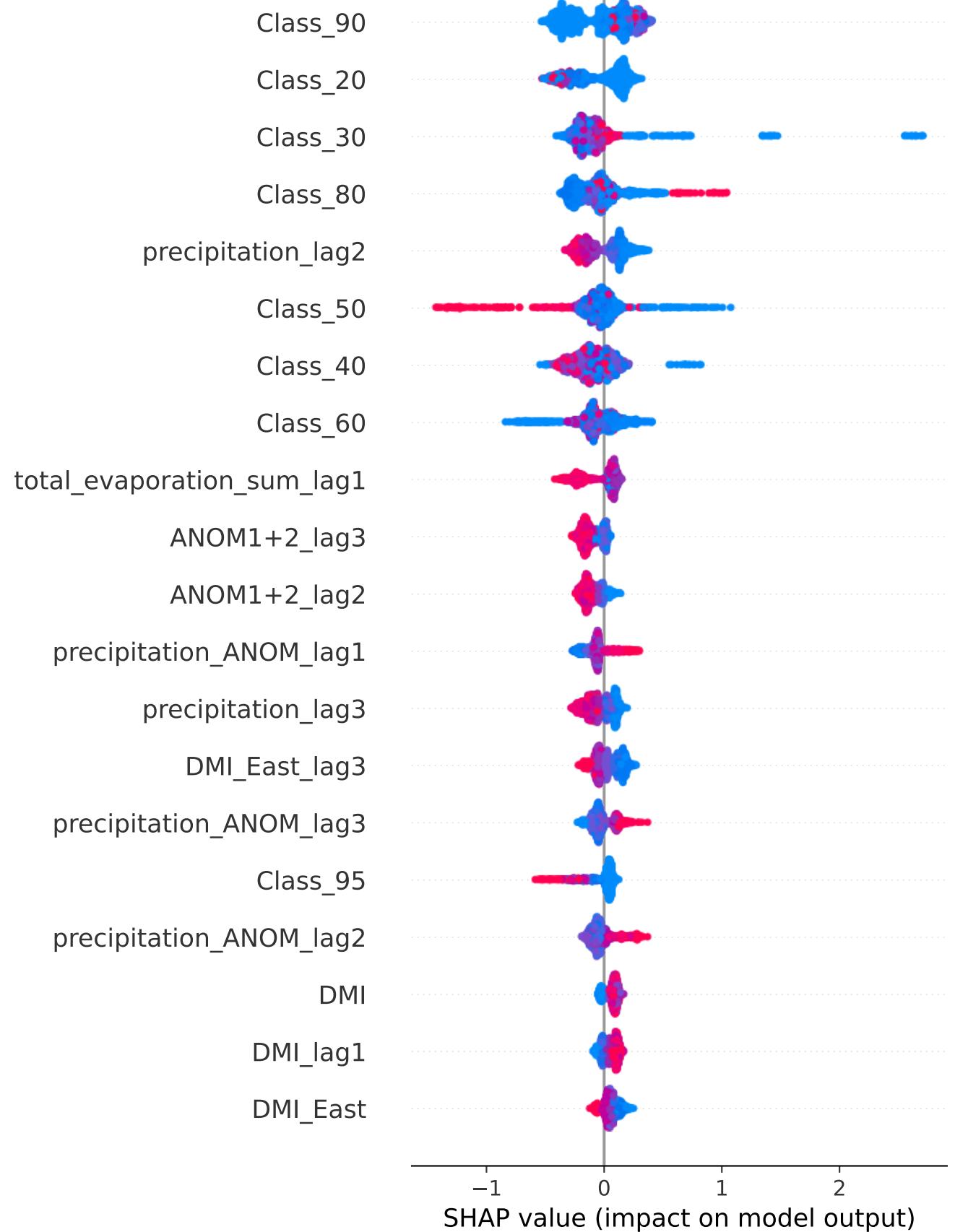


SHAP Beeswarm Plot for Class 0 - Java

High

Feature value

Low



SHAP Beeswarm Plot for Class 1 - Java

High

Feature value

Low

Class_50

Class_40

Class_30

Class_80

Class_10

Class_60

Class_20

total_evaporation_sum_lag3

temperature_2m_max_ANOM_lag3

potential_evaporation_sum_ANOM_lag3

temperature_2m_max

potential_evaporation_sum_lag1

Class_90

DMI

aridity_index

temperature_2m_min_ANOM_lag1

ANOM4

ANOM3.4

potential_evaporation_sum_ANOM

temperature_2m_min

SHAP value (impact on model output)

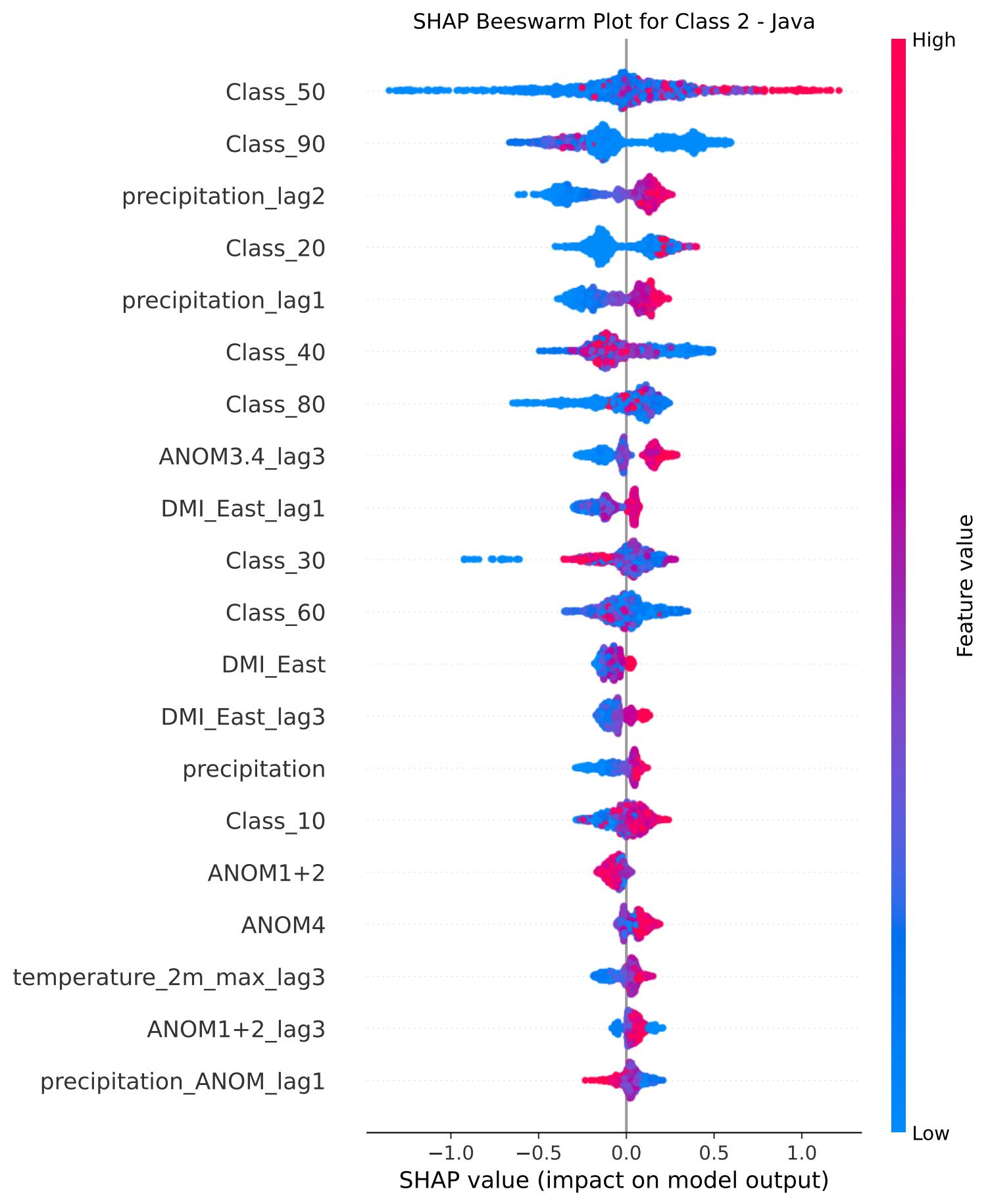
-0.75 -0.50 -0.25 0.00 0.25 0.50

SHAP Beeswarm Plot for Class 2 - Java

High

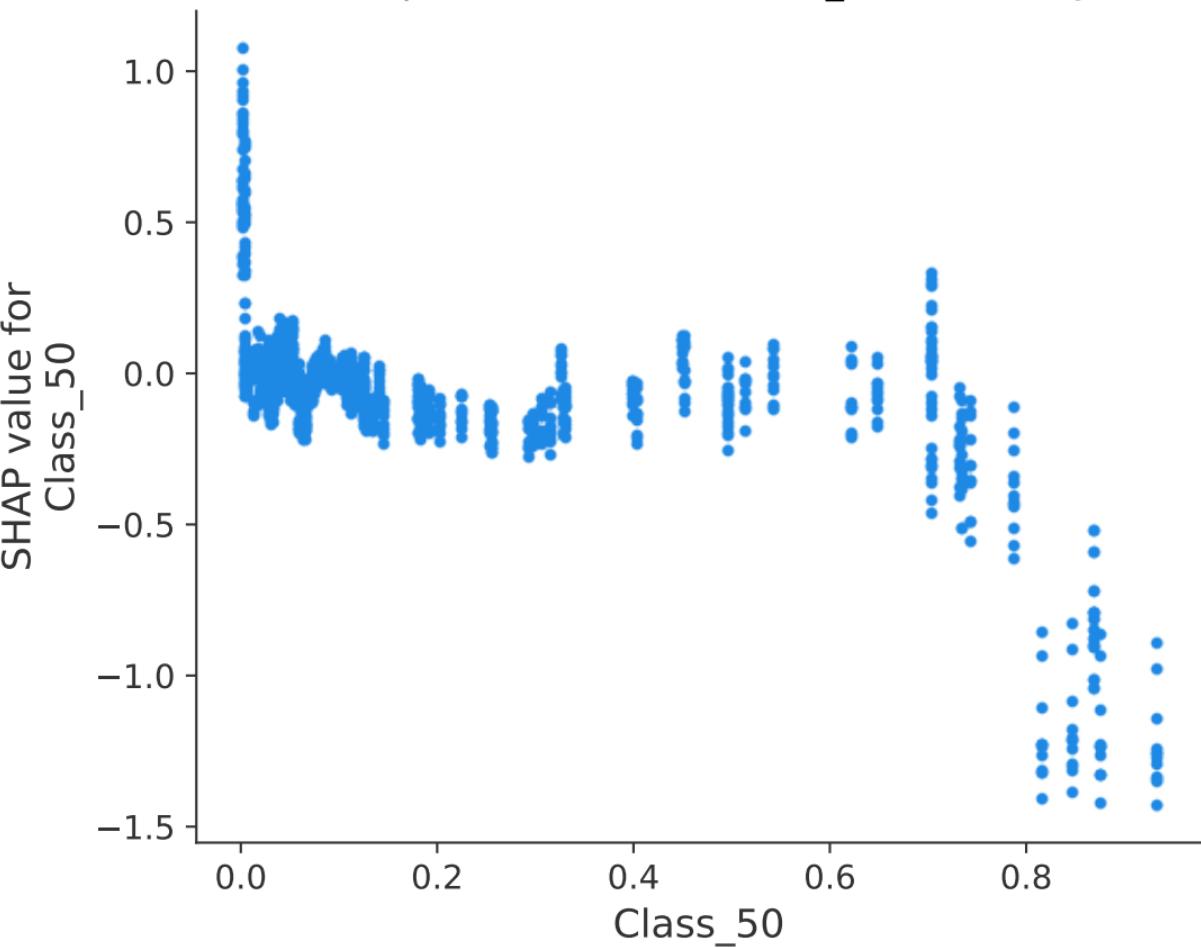
Feature value

Low

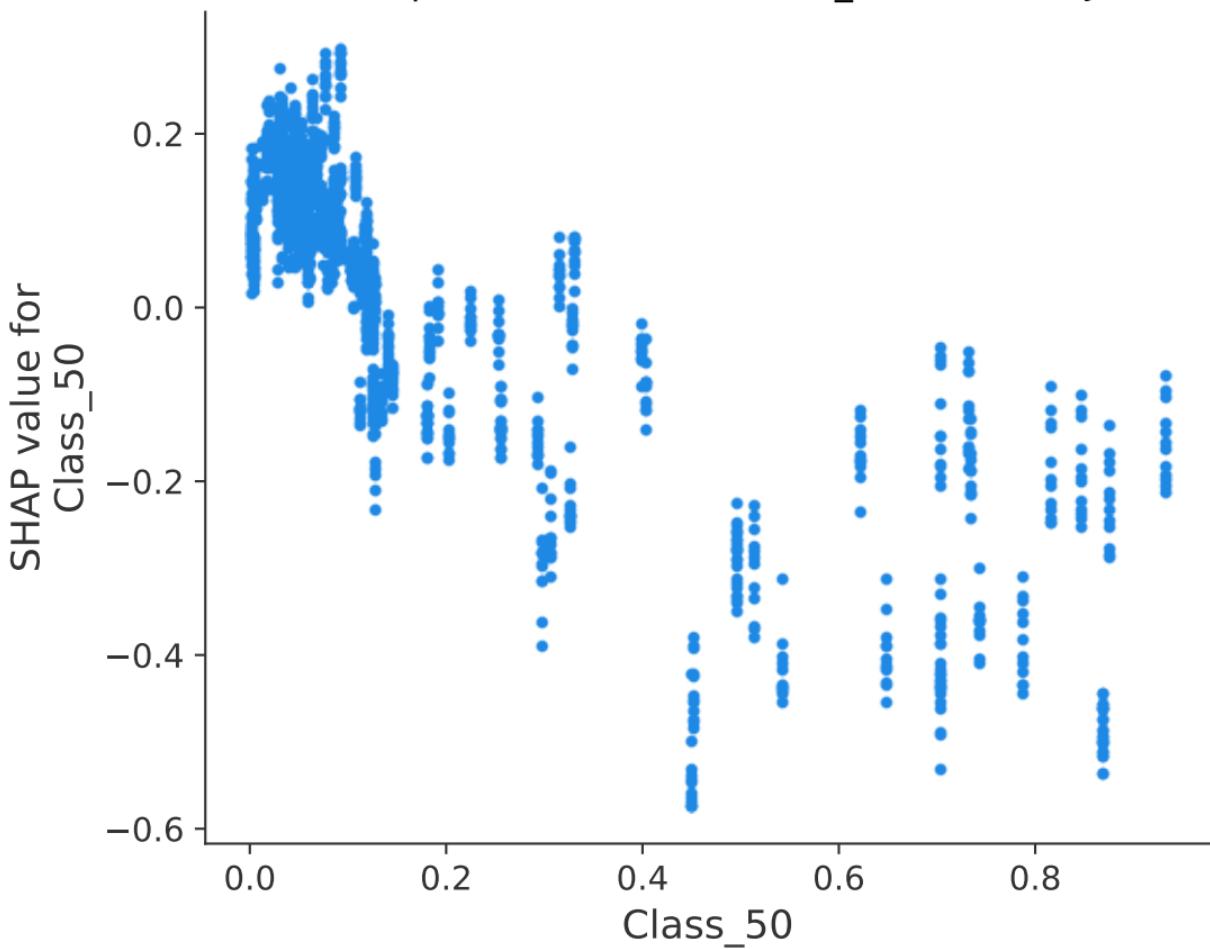


SHAP Dependence Plot for Class_50, Class 0 - Java

SHAP value for
Class_50



SHAP Dependence Plot for Class_50, Class 1 - Java



SHAP Dependence Plot for Class_50, Class 2 - Java

SHAP value for
Class_50

1.0

0.5

0.0

-0.5

-1.0

0.0

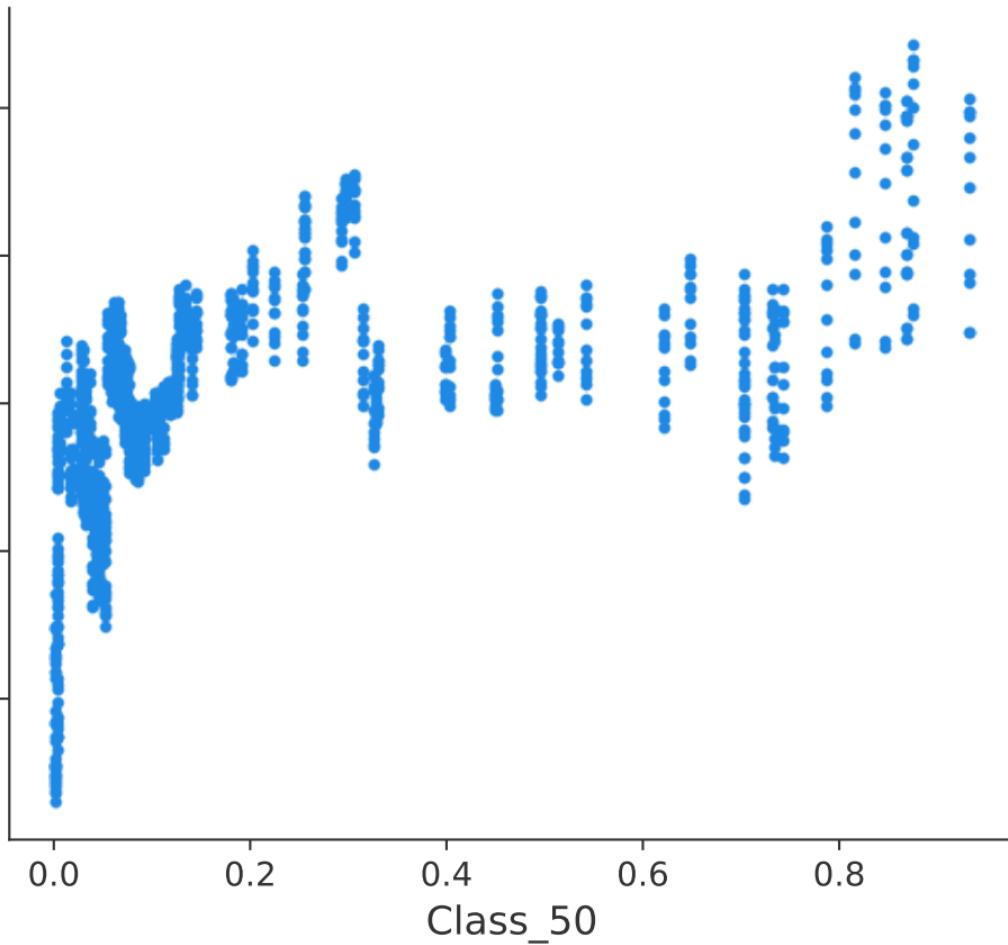
0.2

0.4

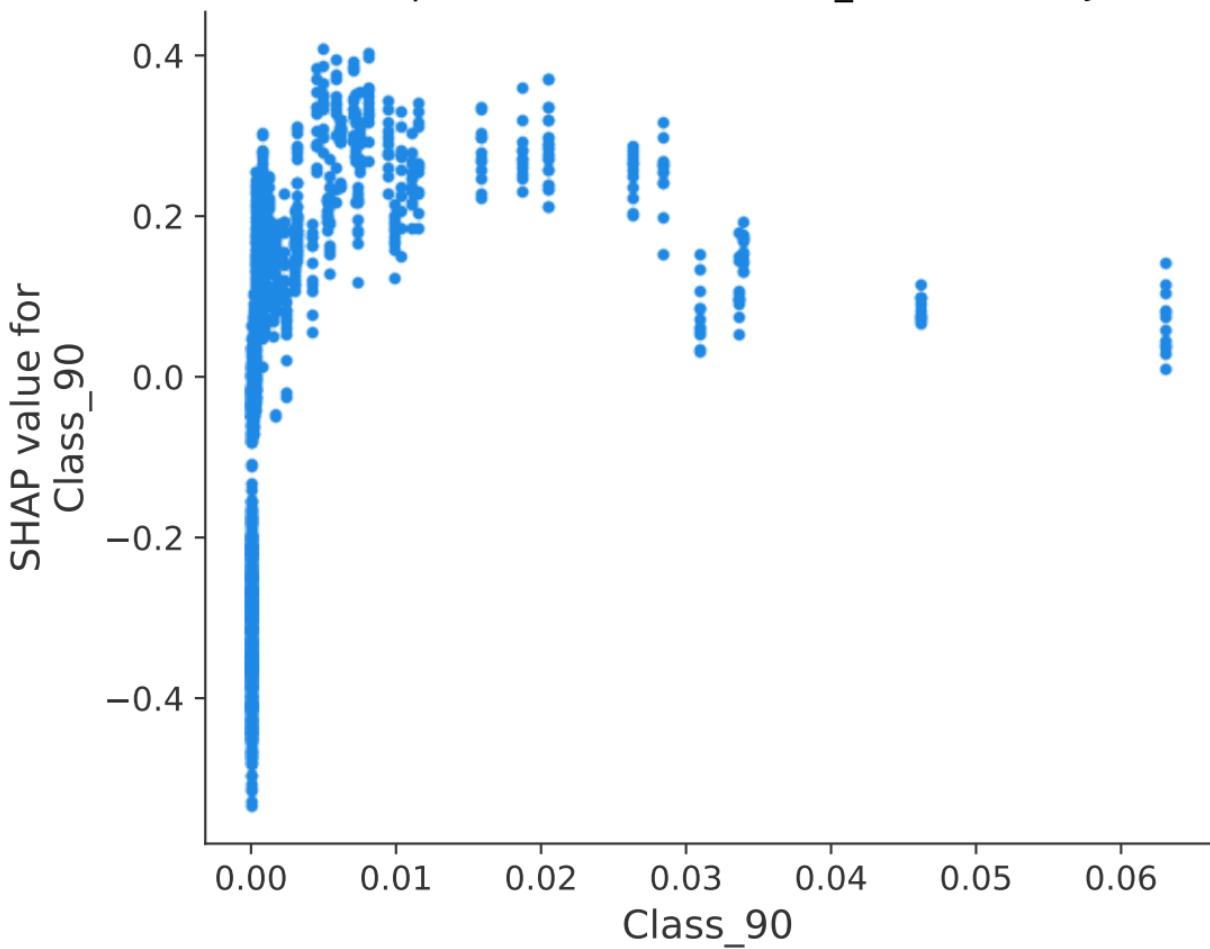
0.6

0.8

Class_50

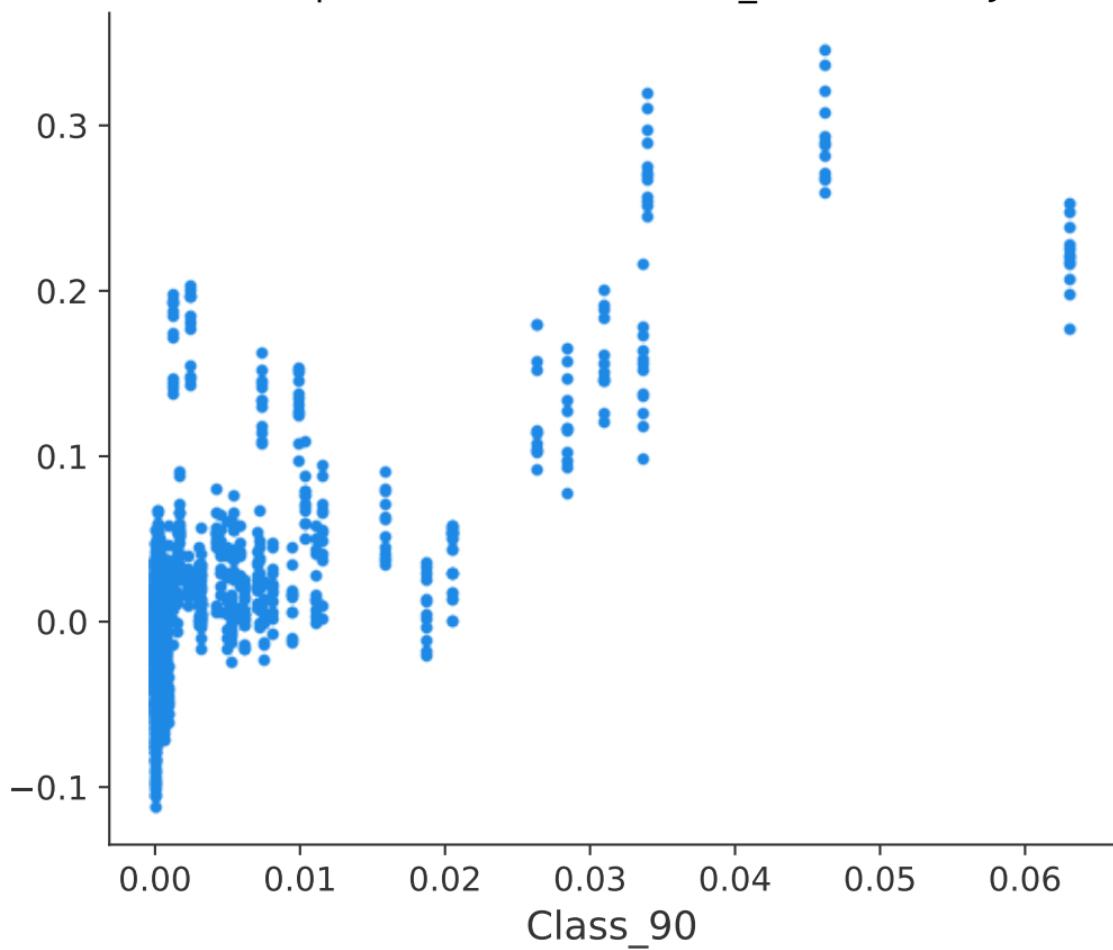


SHAP Dependence Plot for Class_90, Class 0 - Java



SHAP Dependence Plot for Class_90, Class 1 - Java

SHAP value for
Class_90



SHAP Dependence Plot for Class_90, Class 2 - Java

SHAP value for
Class_90

0.6

0.4

0.2

0.0

-0.2

-0.4

-0.6

0.00

0.01

0.02

0.03

0.04

0.05

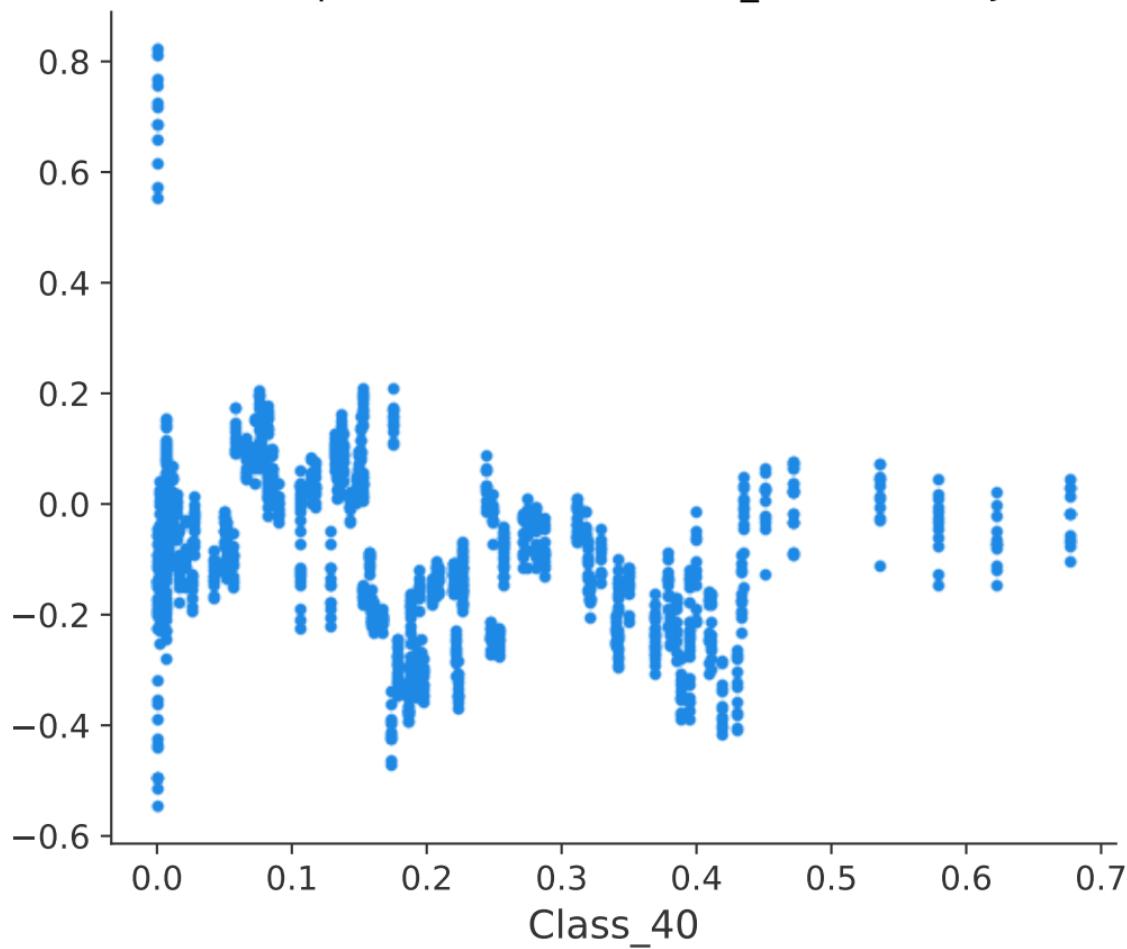
0.06

Class_90

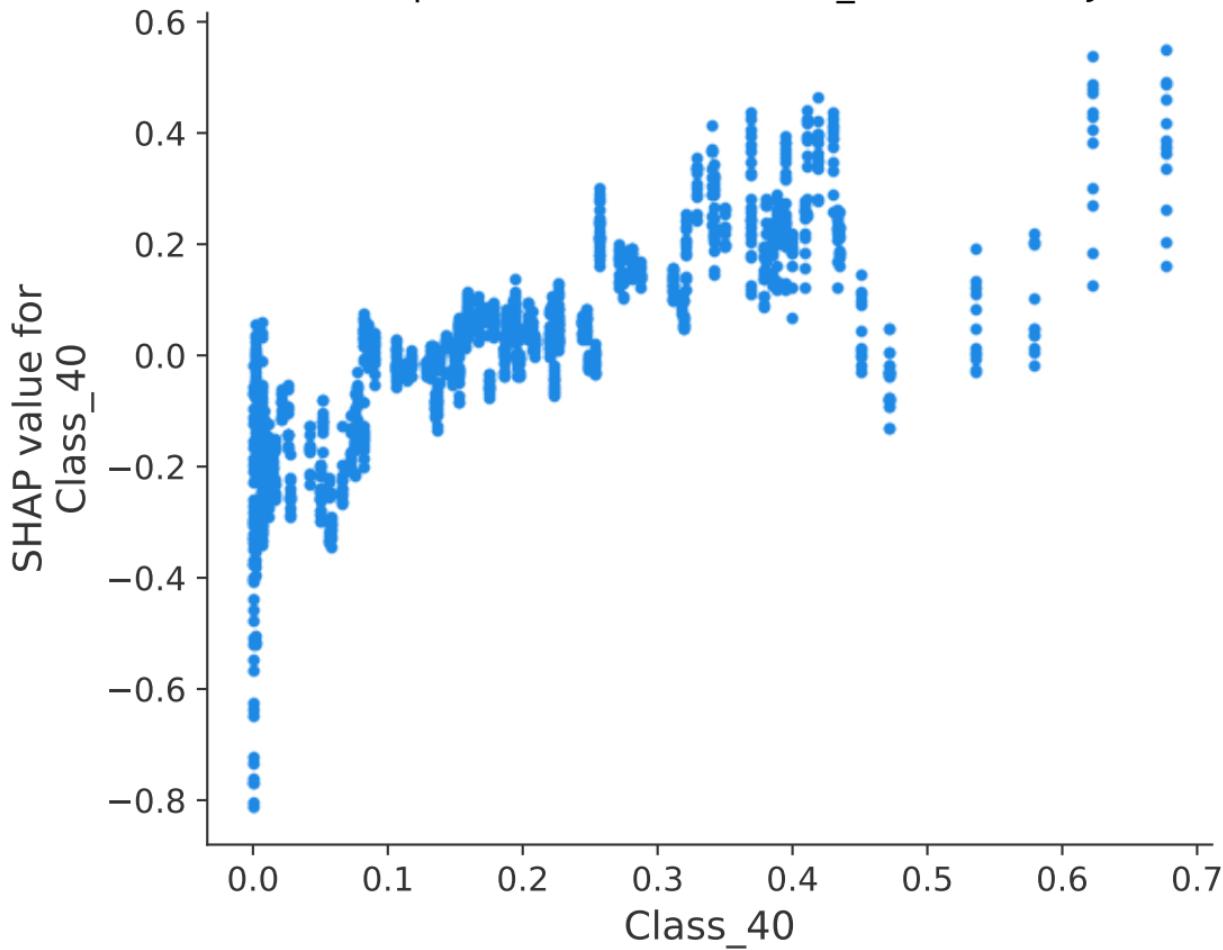
! ! !

SHAP Dependence Plot for Class_40, Class 0 - Java

SHAP value for
Class_40



SHAP Dependence Plot for Class_40, Class 1 - Java



SHAP Dependence Plot for Class_40, Class 2 - Java

SHAP value for
Class_40

0.4

0.2

0.0

-0.2

-0.4

0.0

0.1

0.2

0.3

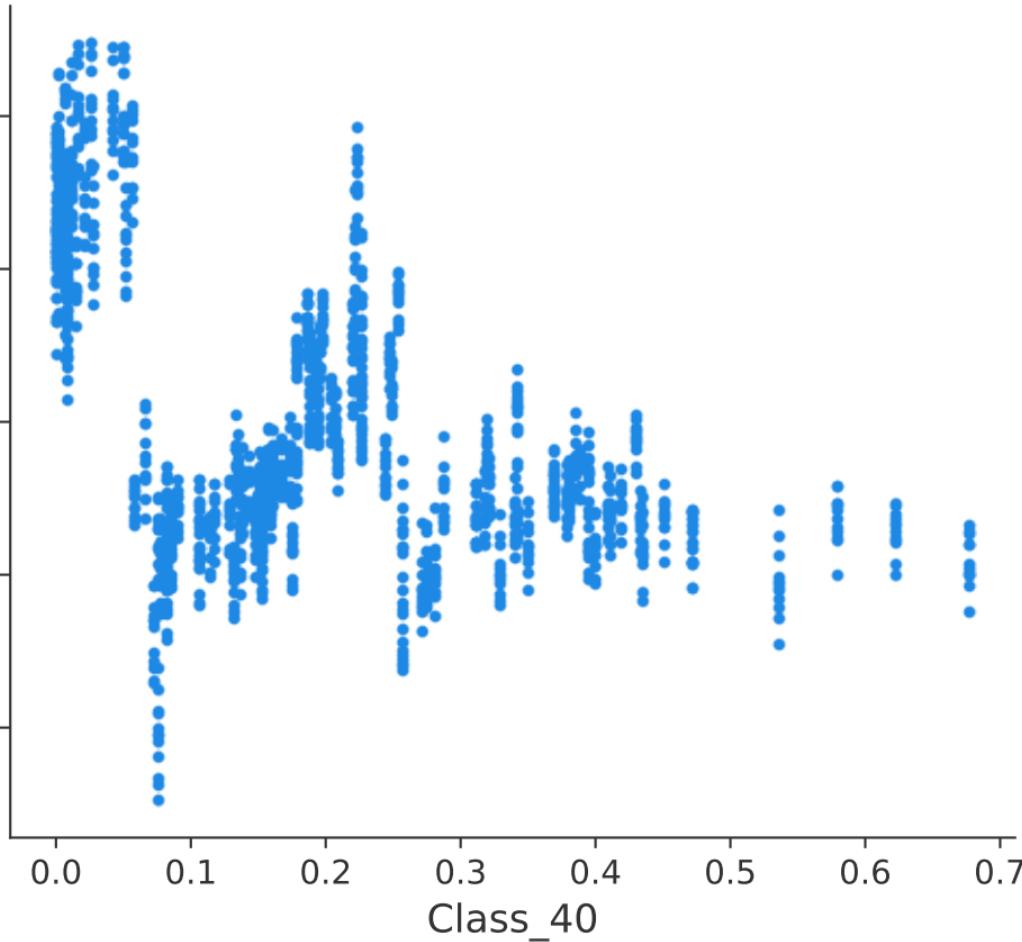
0.4

0.5

0.6

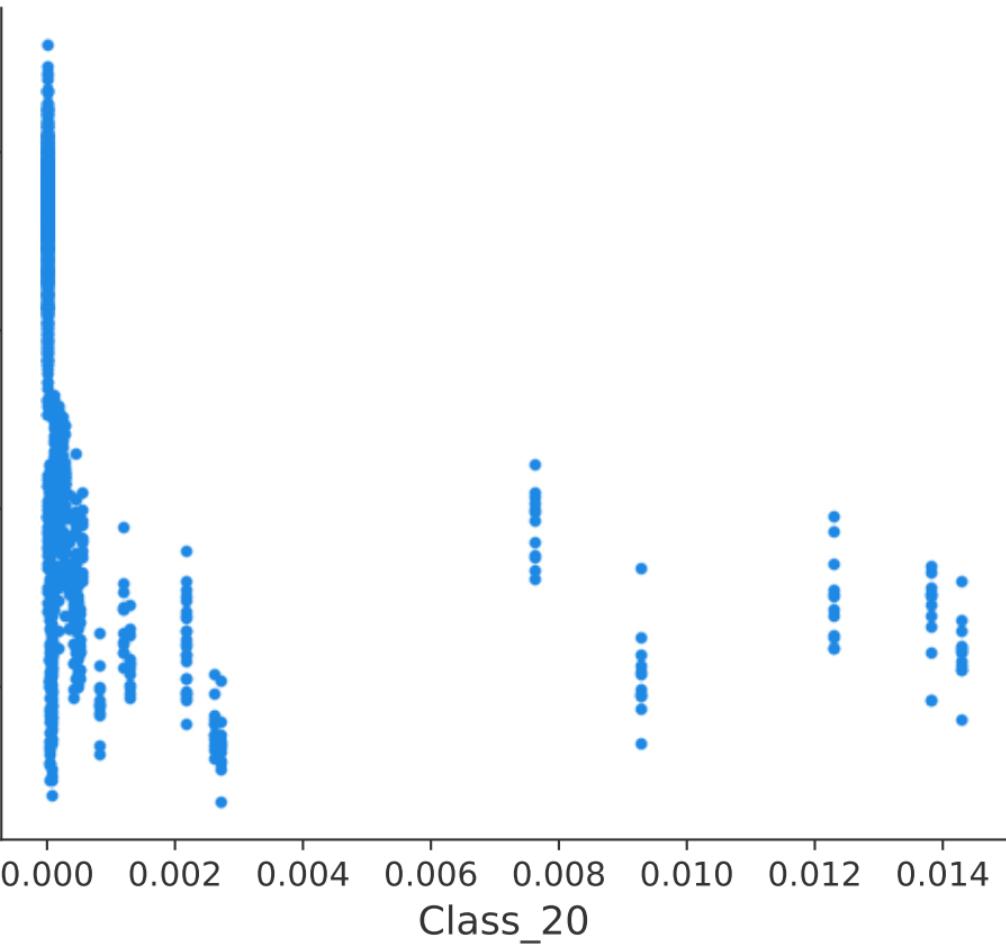
0.7

Class_40

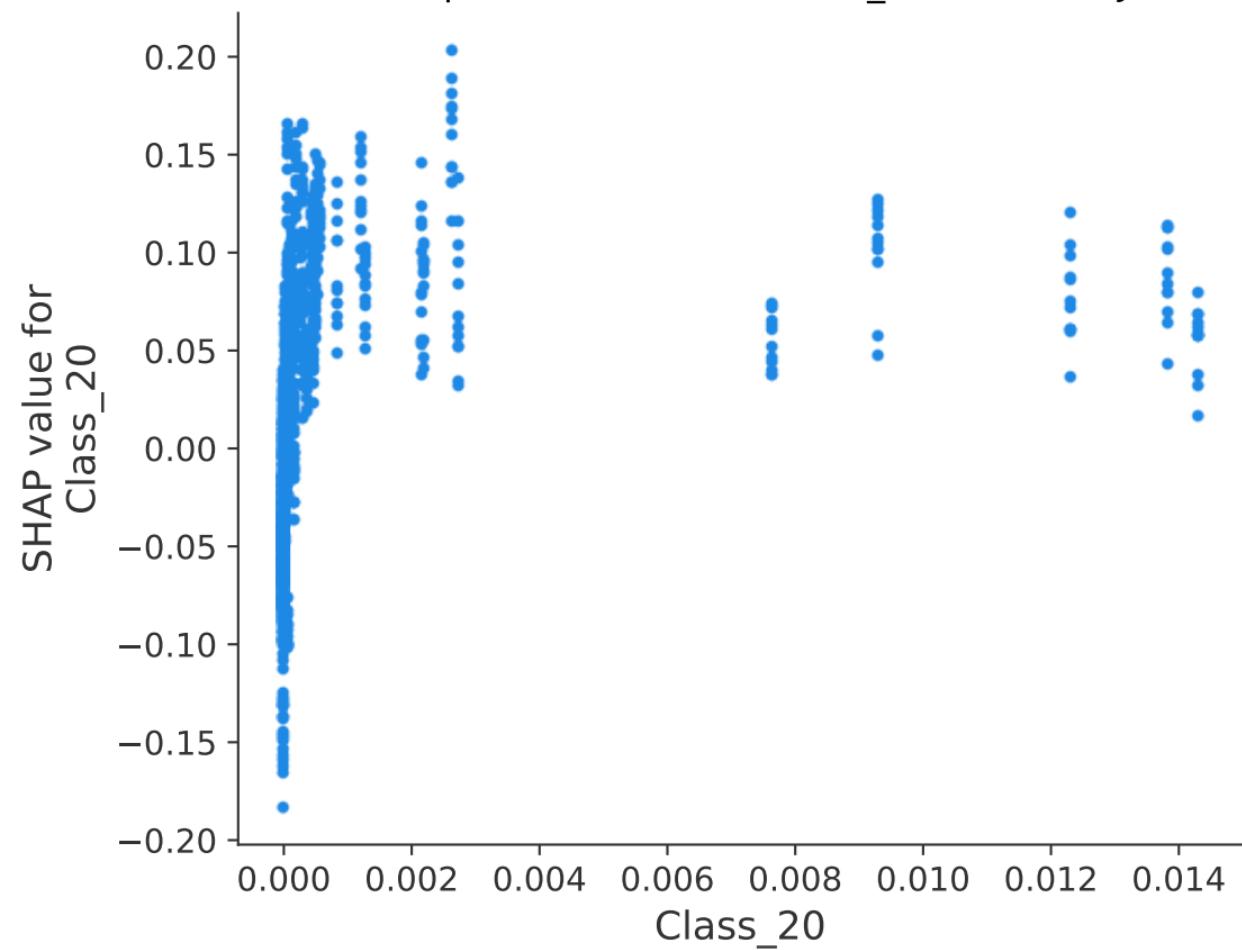


SHAP Dependence Plot for Class_20, Class 0 - Java

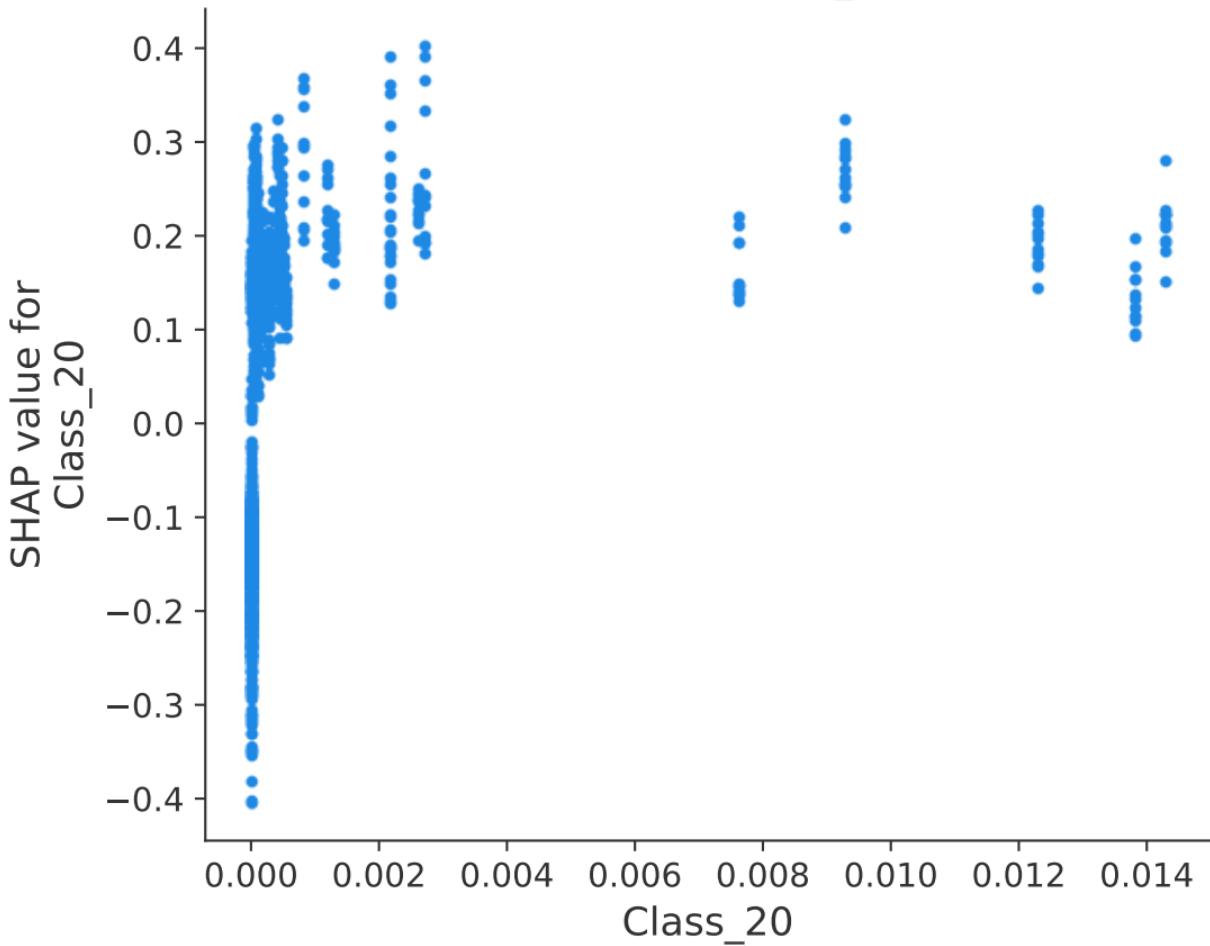
SHAP value for
Class_20



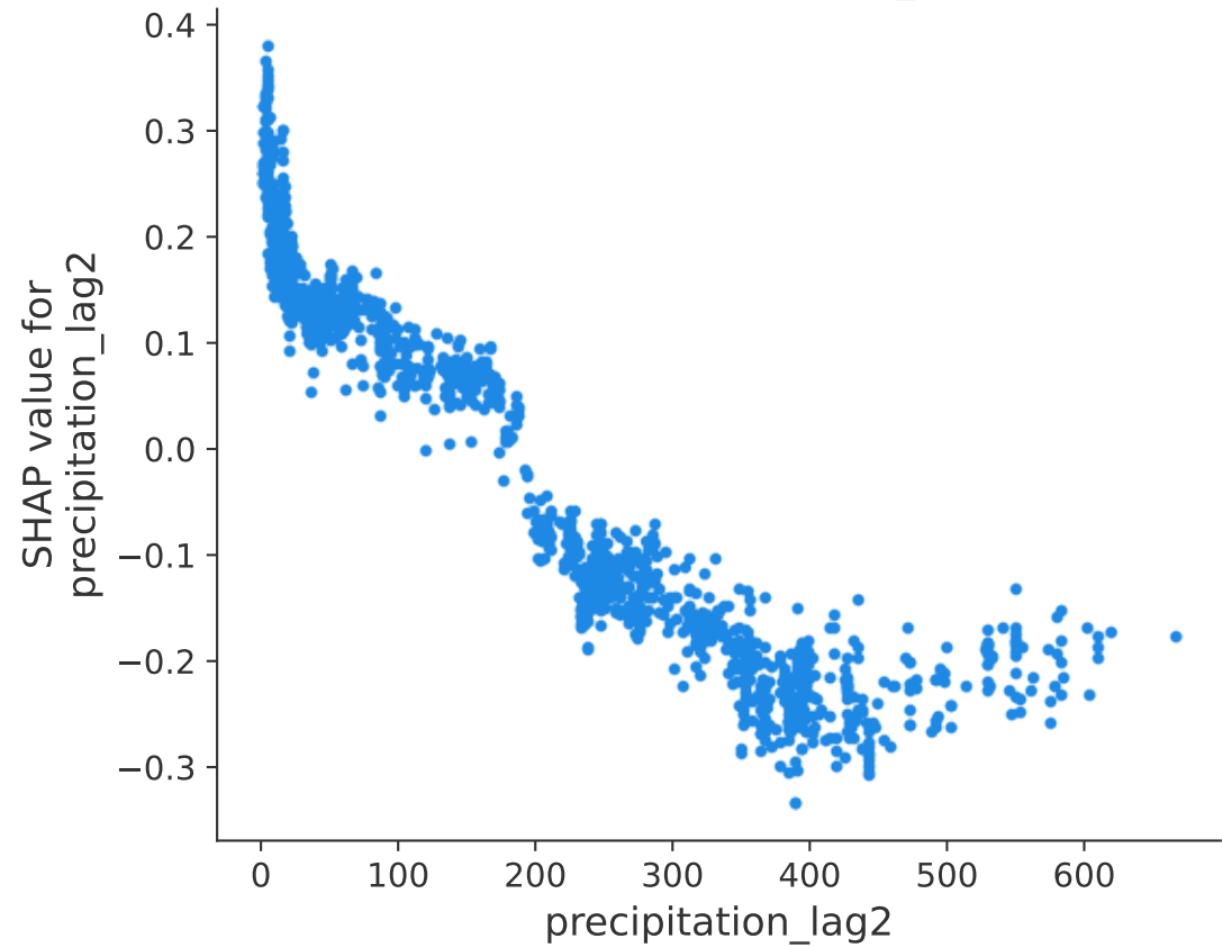
SHAP Dependence Plot for Class_20, Class 1 - Java



SHAP Dependence Plot for Class_20, Class 2 - Java



SHAP Dependence Plot for precipitation_lag2, Class 0 - Java



SHAP Dependence Plot for precipitation_lag2, Class 1 - Java

SHAP value for
precipitation_lag2

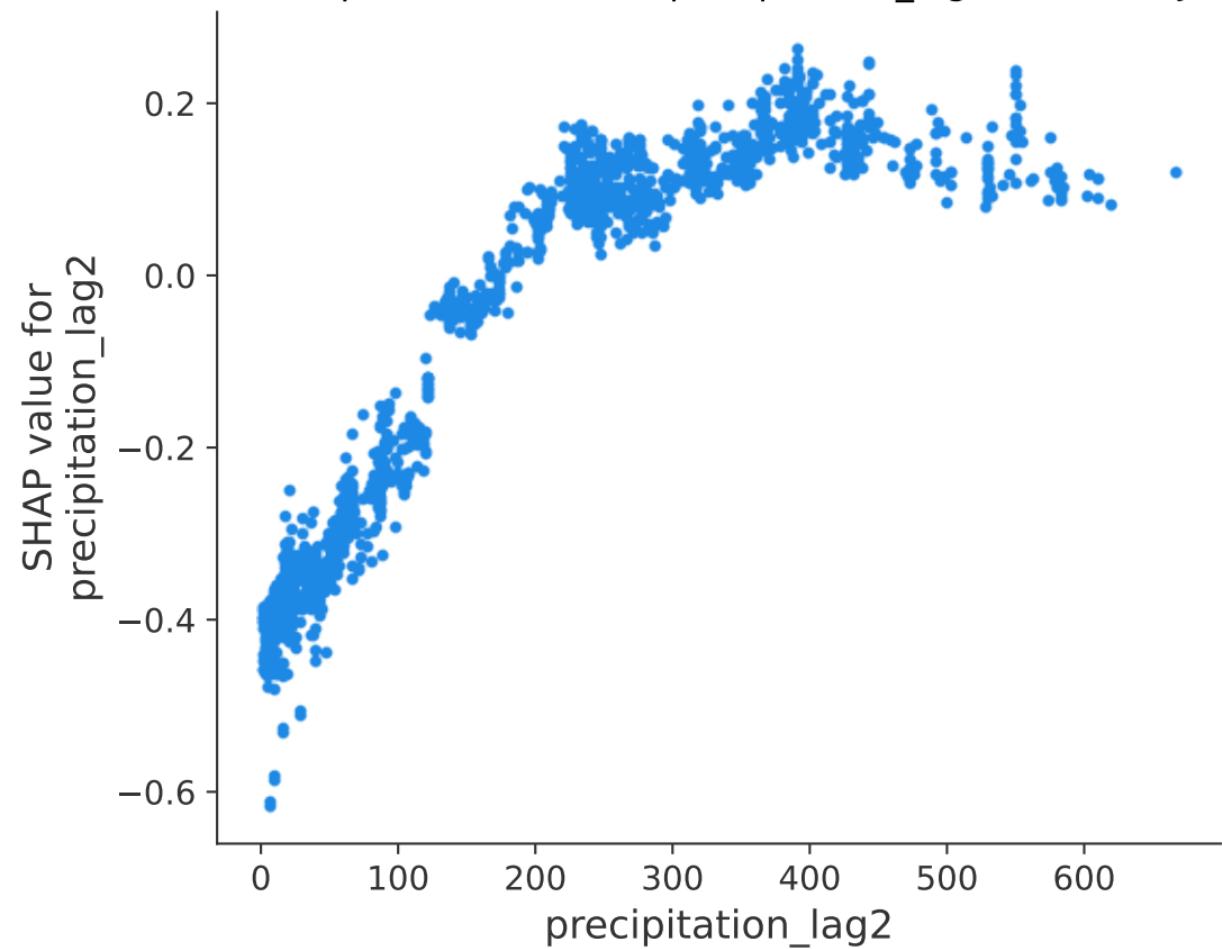
0.08
0.06
0.04
0.02
0.00
-0.02
-0.04
-0.06

0 100 200 300 400 500 600

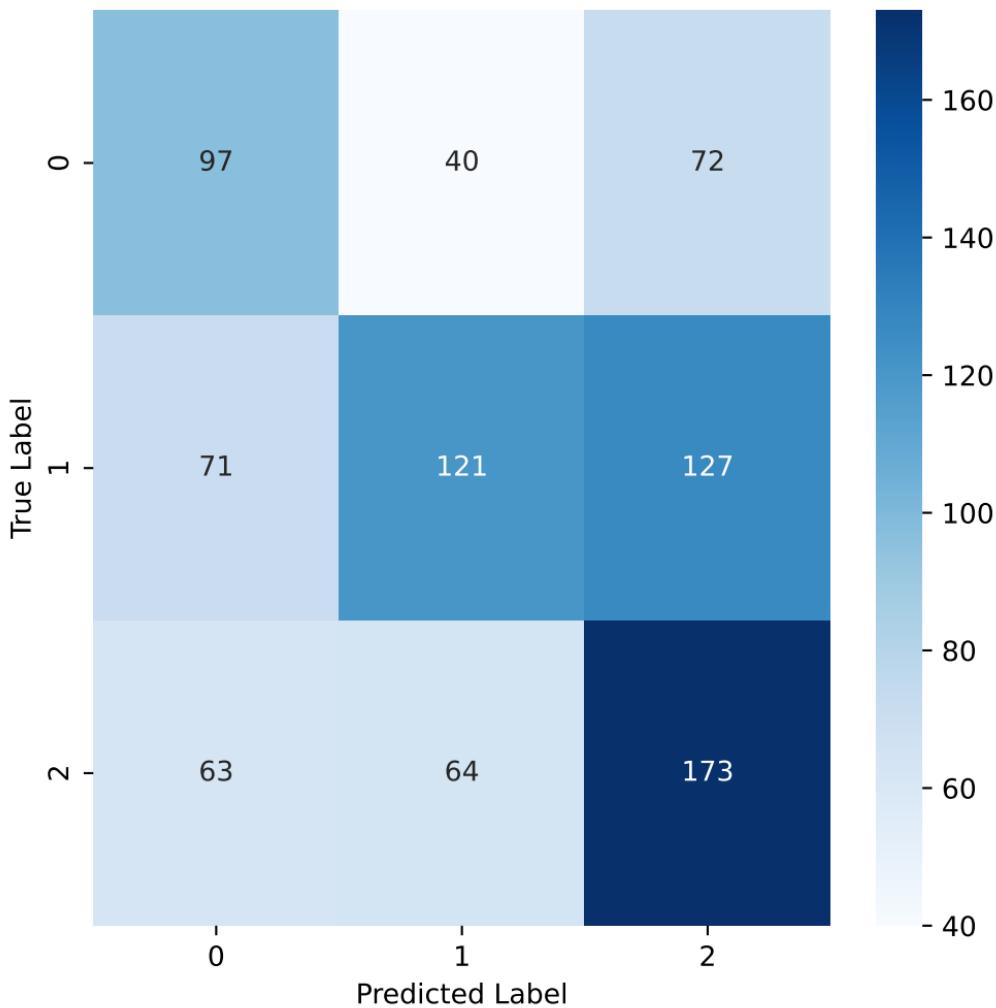
precipitation_lag2

A scatter plot showing the SHAP value for precipitation_lag2 across a range of values from approximately 0 to 650. The y-axis represents the SHAP value, ranging from -0.06 to 0.08. The x-axis represents precipitation_lag2, ranging from 0 to 650. The data points are blue dots. There is a sharp peak at low precipitation_lag2 values (around 0-50) where the SHAP value is positive, reaching up to 0.075. This is followed by a deep trough where the SHAP value drops to around -0.045. The distribution then becomes more scattered and less extreme as precipitation_lag2 increases beyond 100, with values ranging between -0.06 and 0.05.

SHAP Dependence Plot for precipitation_lag2, Class 2 - Java



Confusion Matrix - Sulawesi

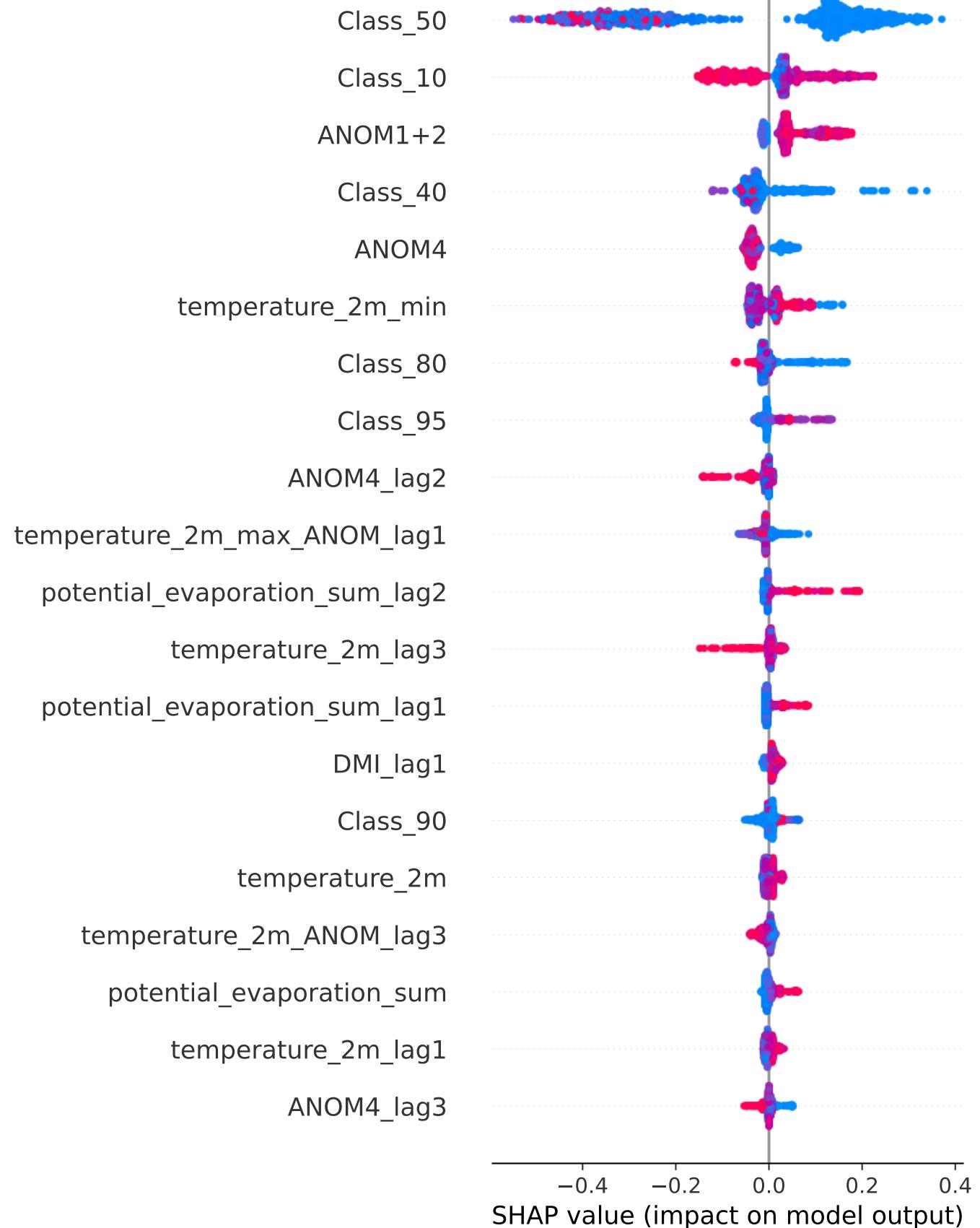


SHAP Beeswarm Plot for Class 0 - Sulawesi

High

Feature value

Low

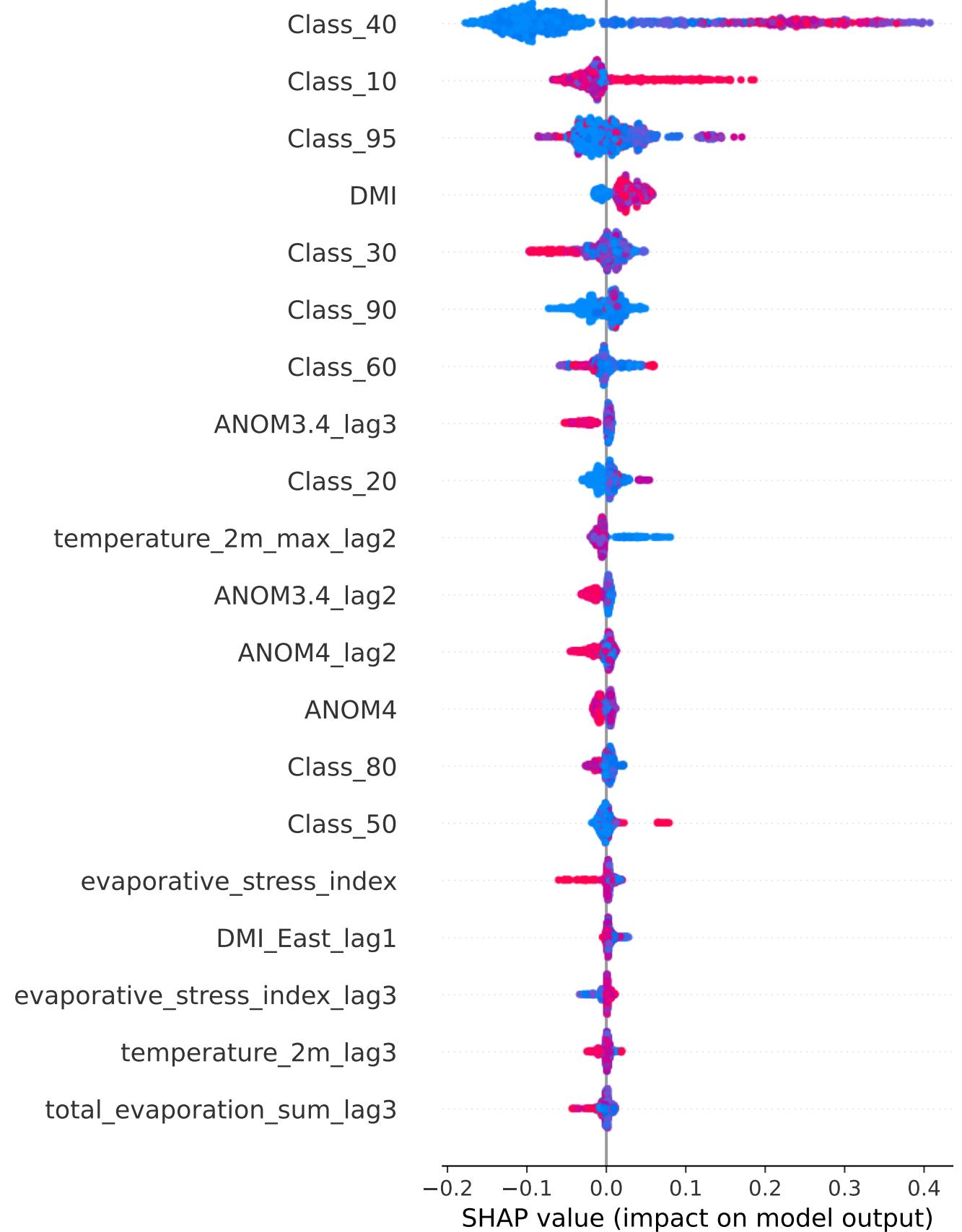


SHAP Beeswarm Plot for Class 1 - Sulawesi

High

Feature value

Low

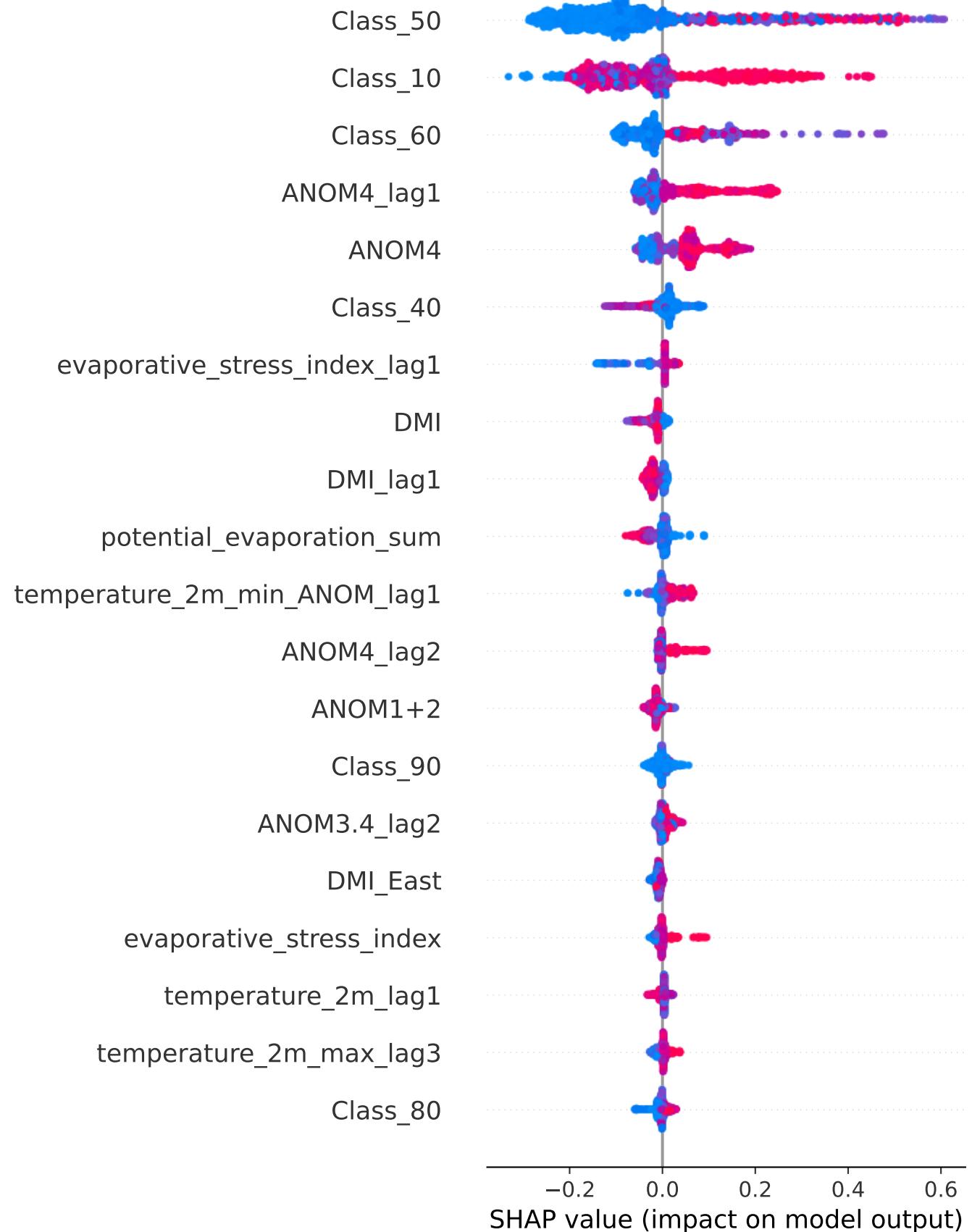


SHAP Beeswarm Plot for Class 2 - Sulawesi

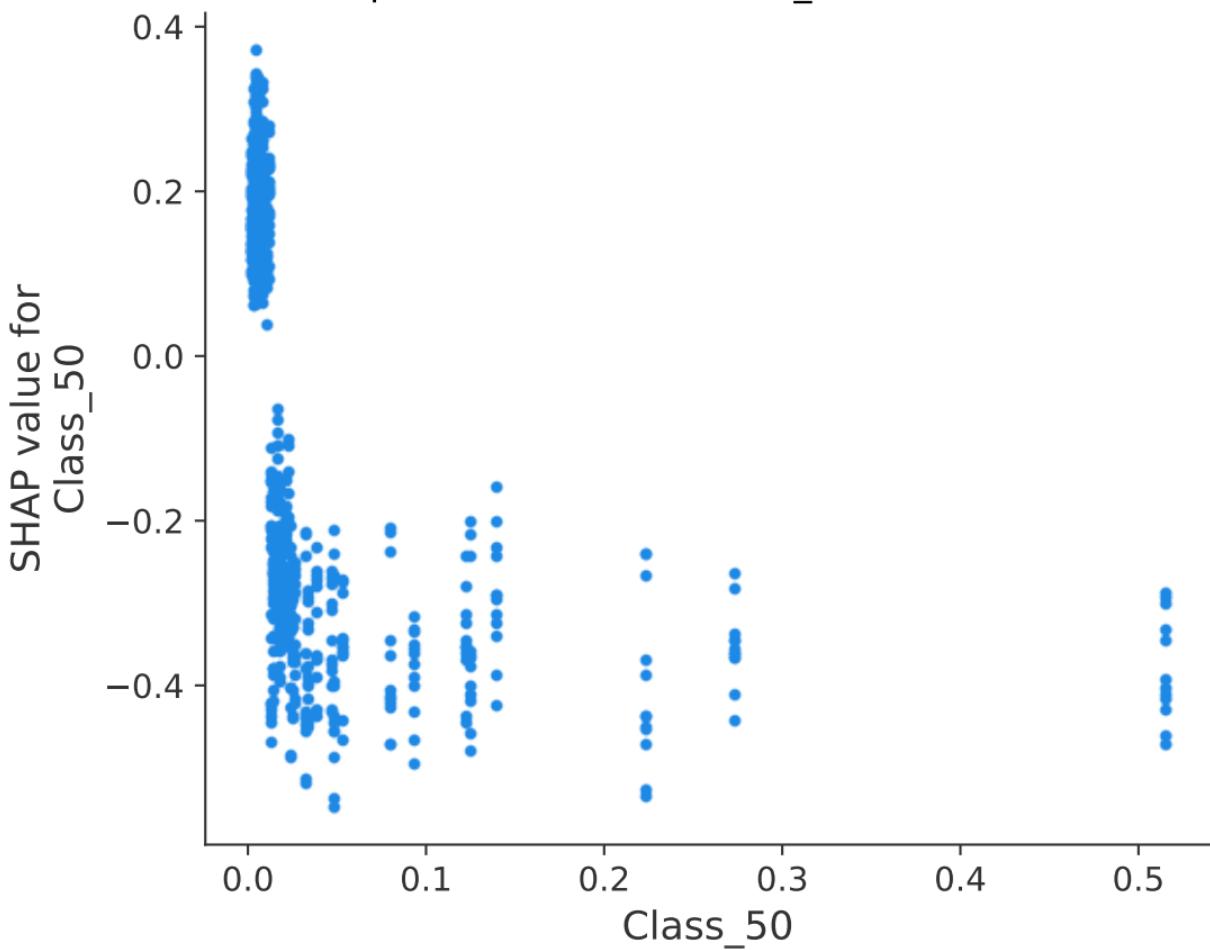
High

Feature value

Low

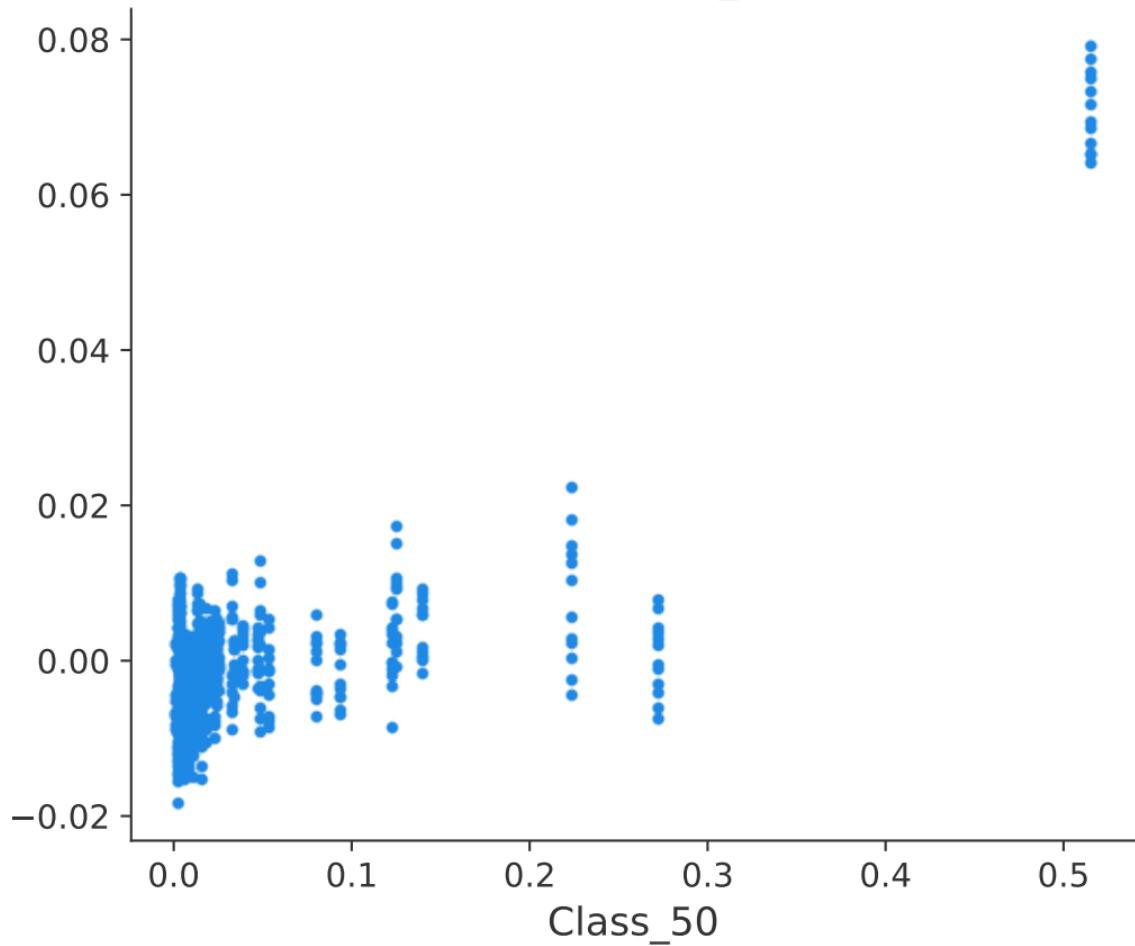


SHAP Dependence Plot for Class_50, Class 0 - Sulawesi



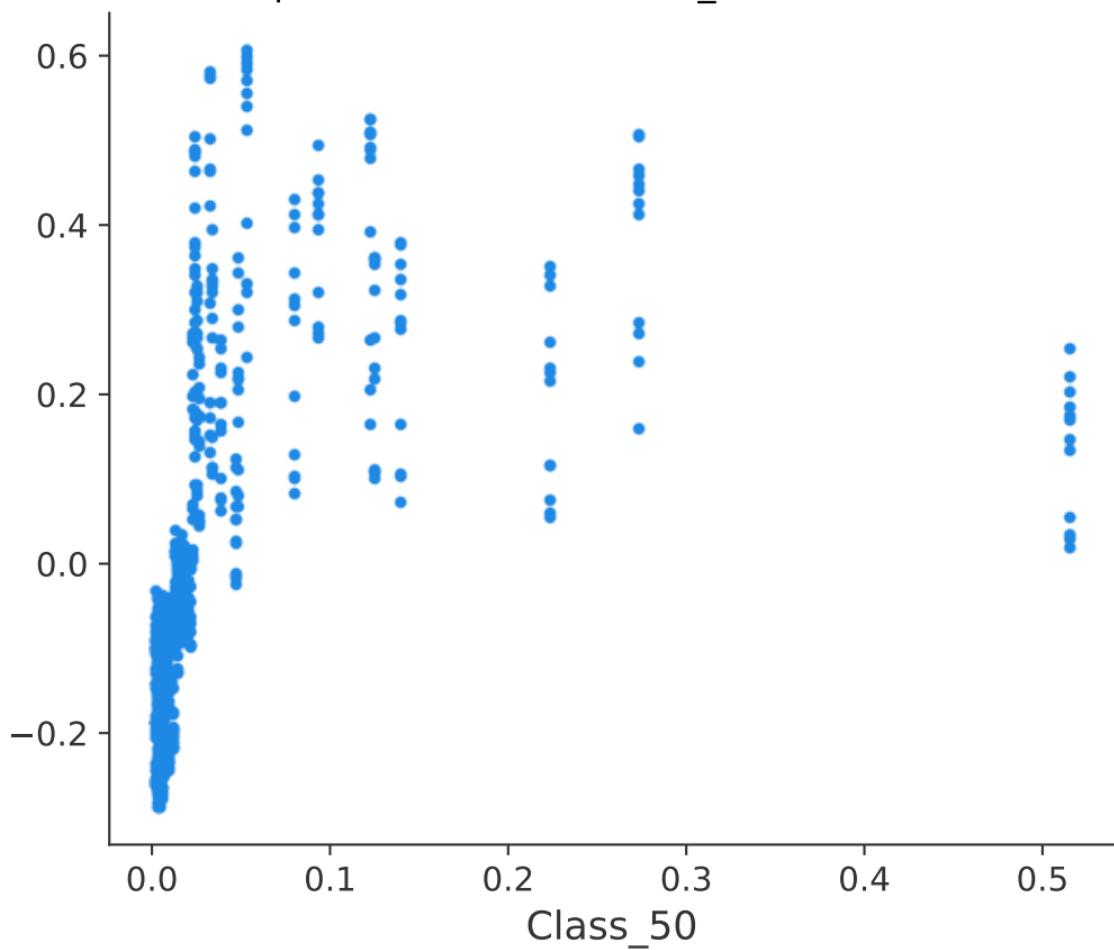
SHAP Dependence Plot for Class_50, Class 1 - Sulawesi

SHAP value for
Class_50



SHAP Dependence Plot for Class_50, Class 2 - Sulawesi

SHAP value for
Class_50



SHAP Dependence Plot for Class_10, Class 0 - Sulawesi

SHAP value for
Class_10

0.20

0.15

0.10

0.05

0.00

-0.05

-0.10

-0.15

0.2

0.3

0.4

0.5

0.6

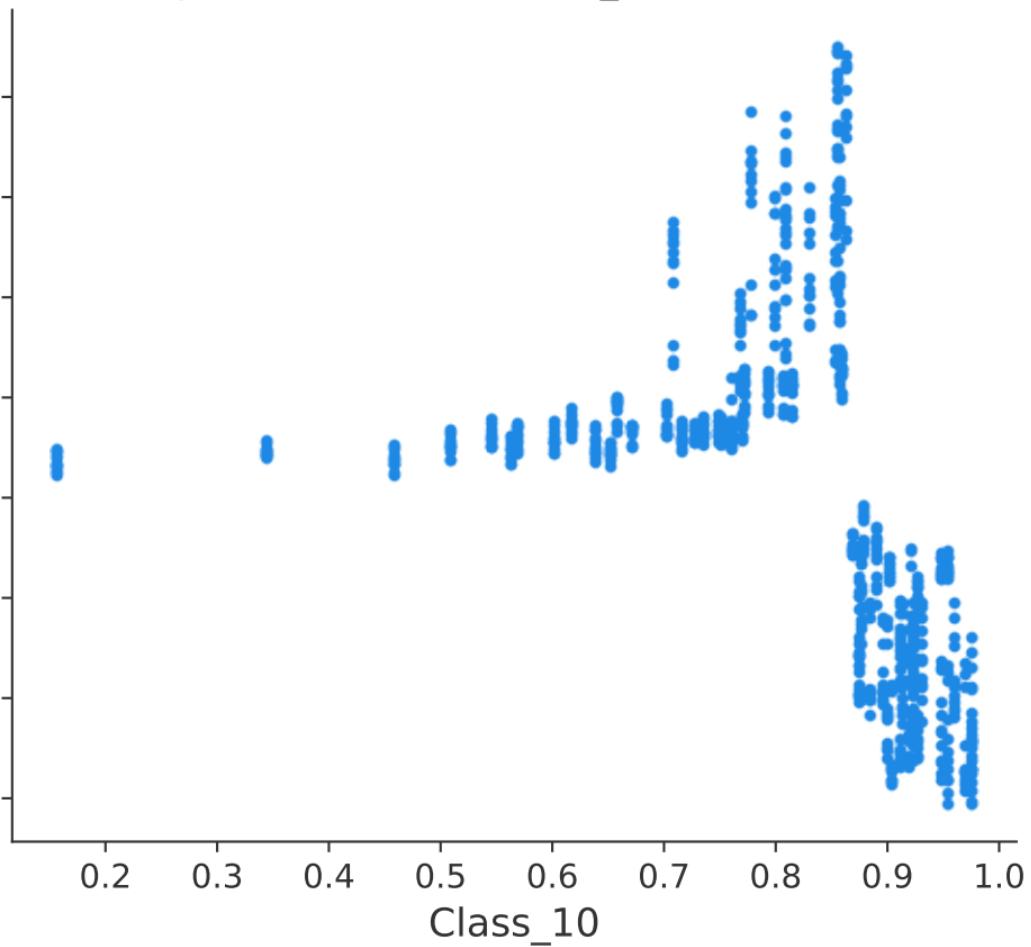
0.7

0.8

0.9

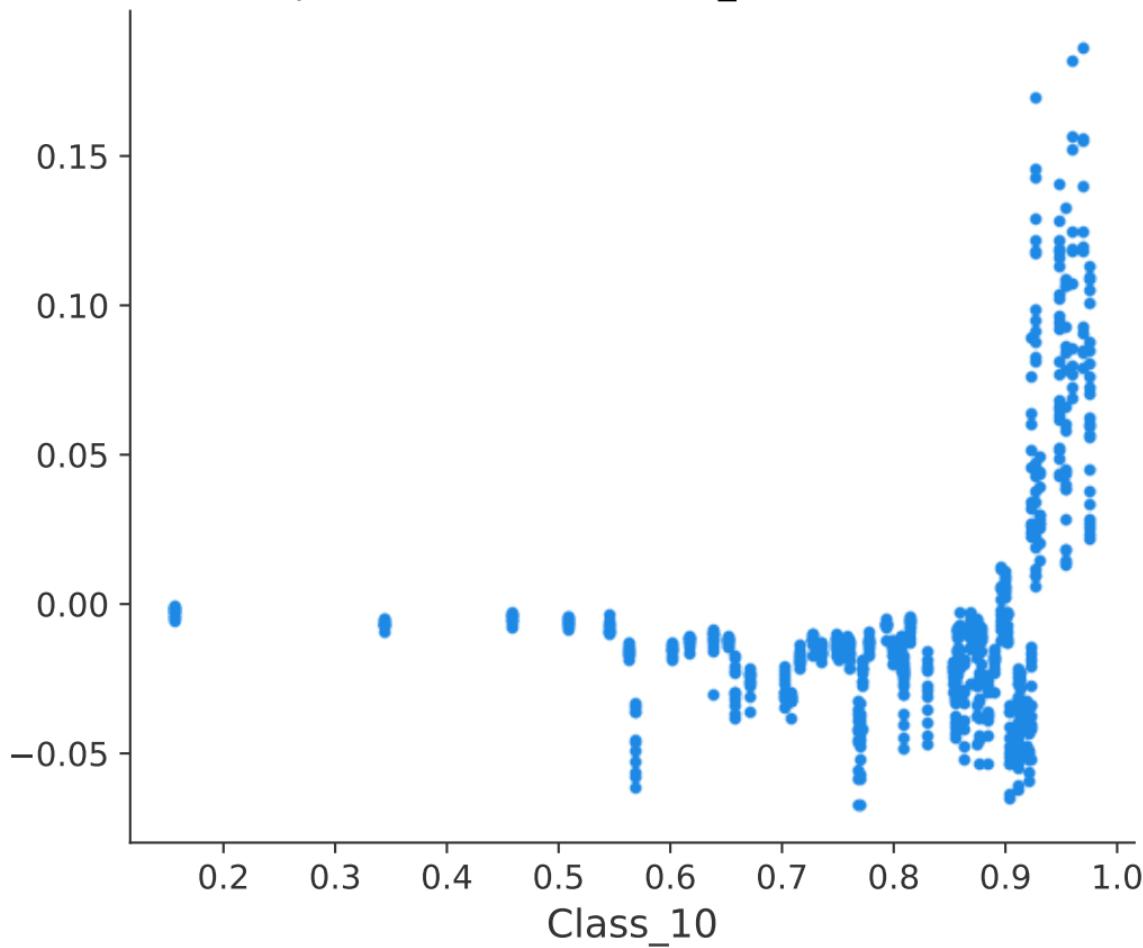
1.0

Class_10



SHAP Dependence Plot for Class_10, Class 1 - Sulawesi

SHAP value for
Class_10



SHAP Dependence Plot for Class_10, Class 2 - Sulawesi

SHAP value for
Class_10

0.4

0.3

0.2

0.1

0.0

-0.1

-0.2

-0.3

0.2

0.3

0.4

0.5

0.6

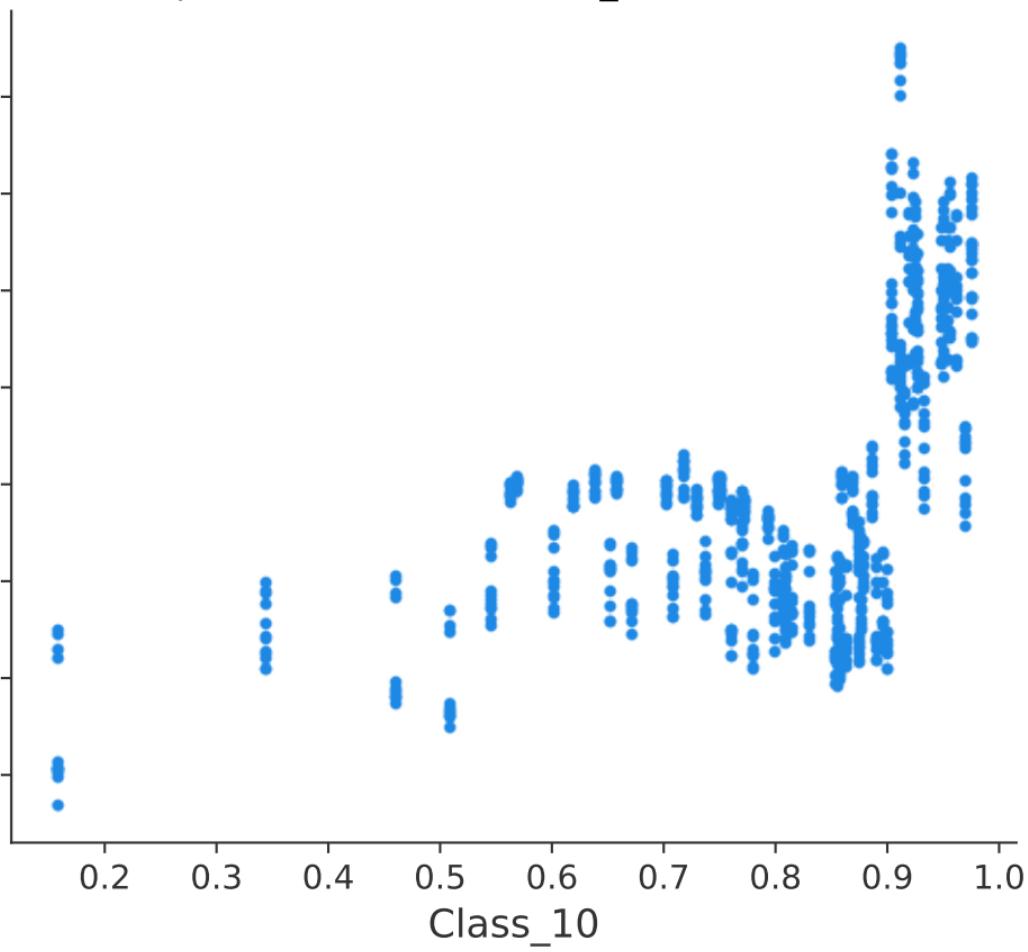
0.7

0.8

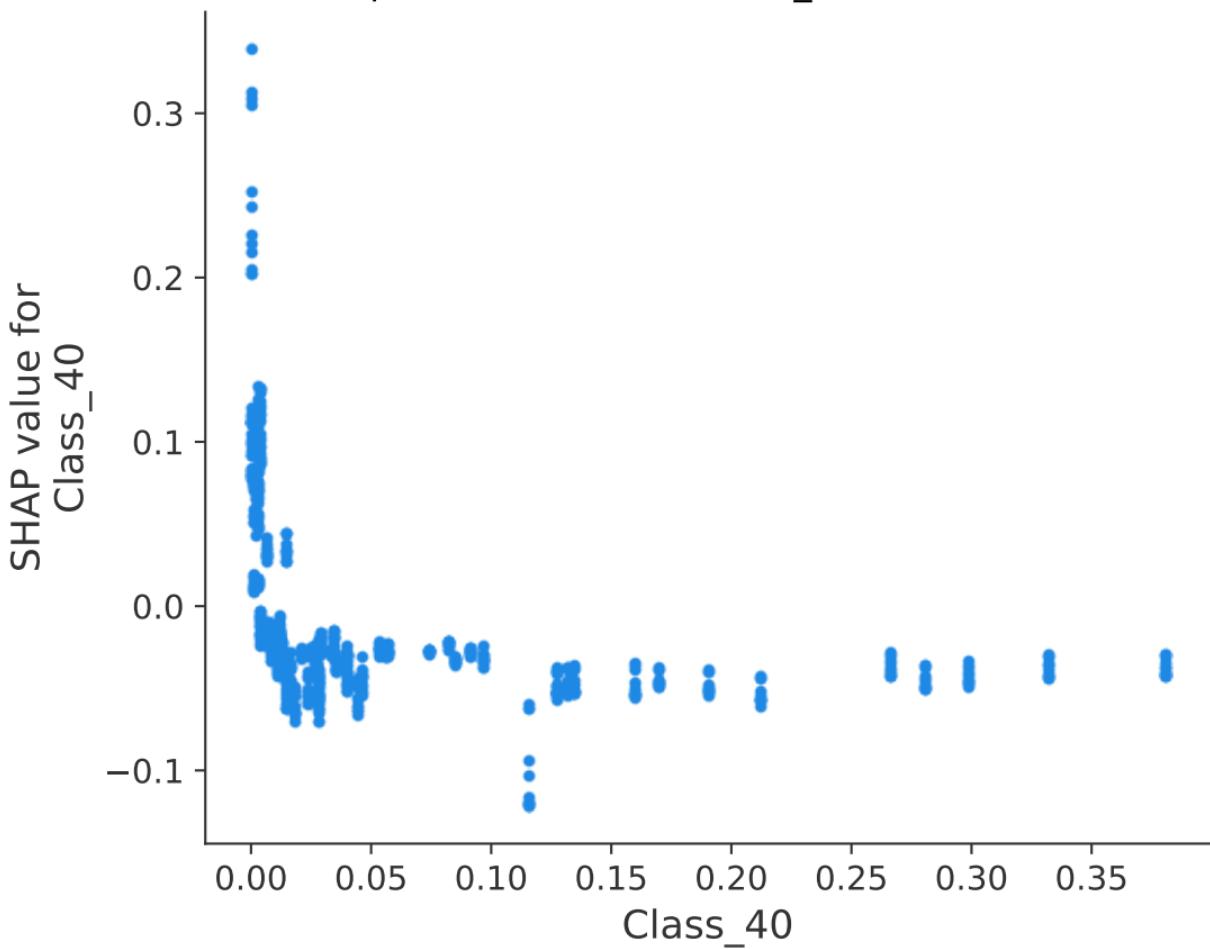
0.9

1.0

Class_10

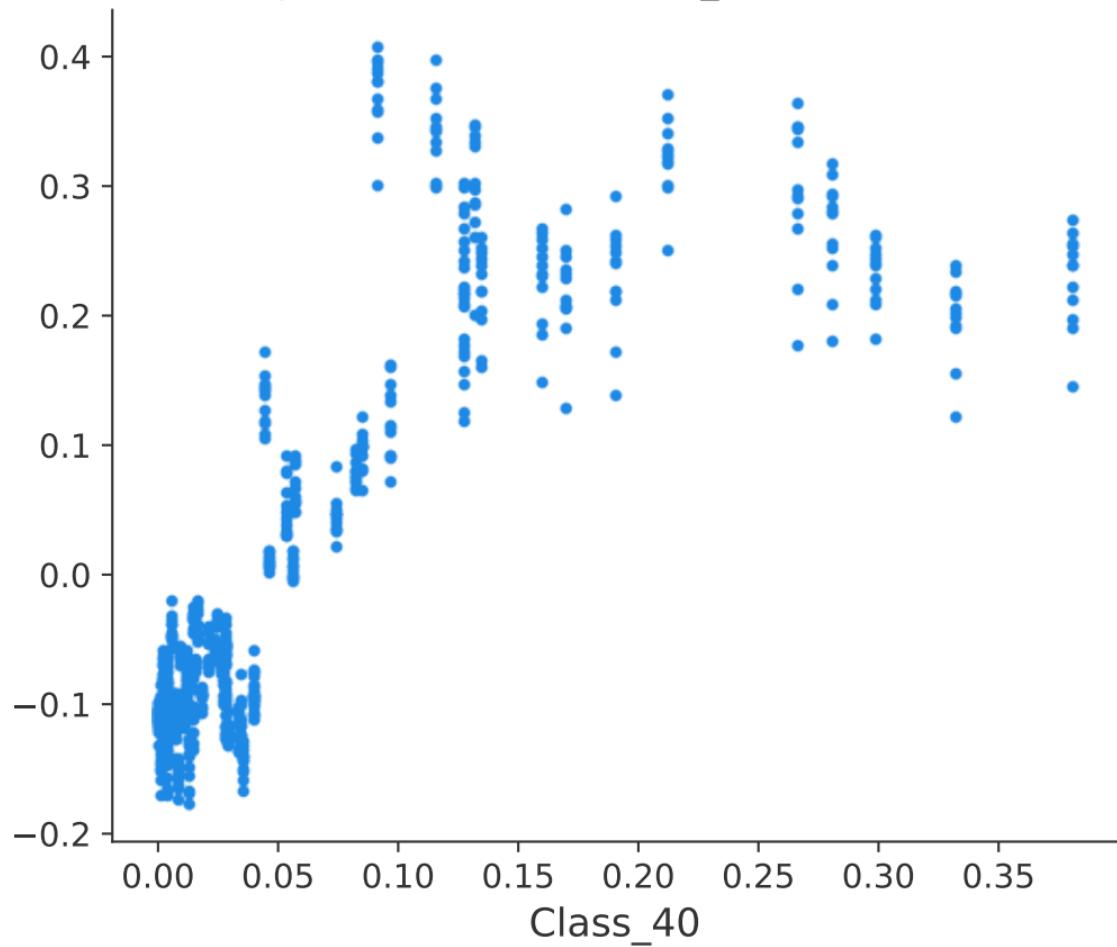


SHAP Dependence Plot for Class_40, Class 0 - Sulawesi



SHAP Dependence Plot for Class_40, Class 1 - Sulawesi

SHAP value for
Class_40



SHAP Dependence Plot for Class_40, Class 2 - Sulawesi

SHAP value for
Class_40

0.05

0.00

-0.05

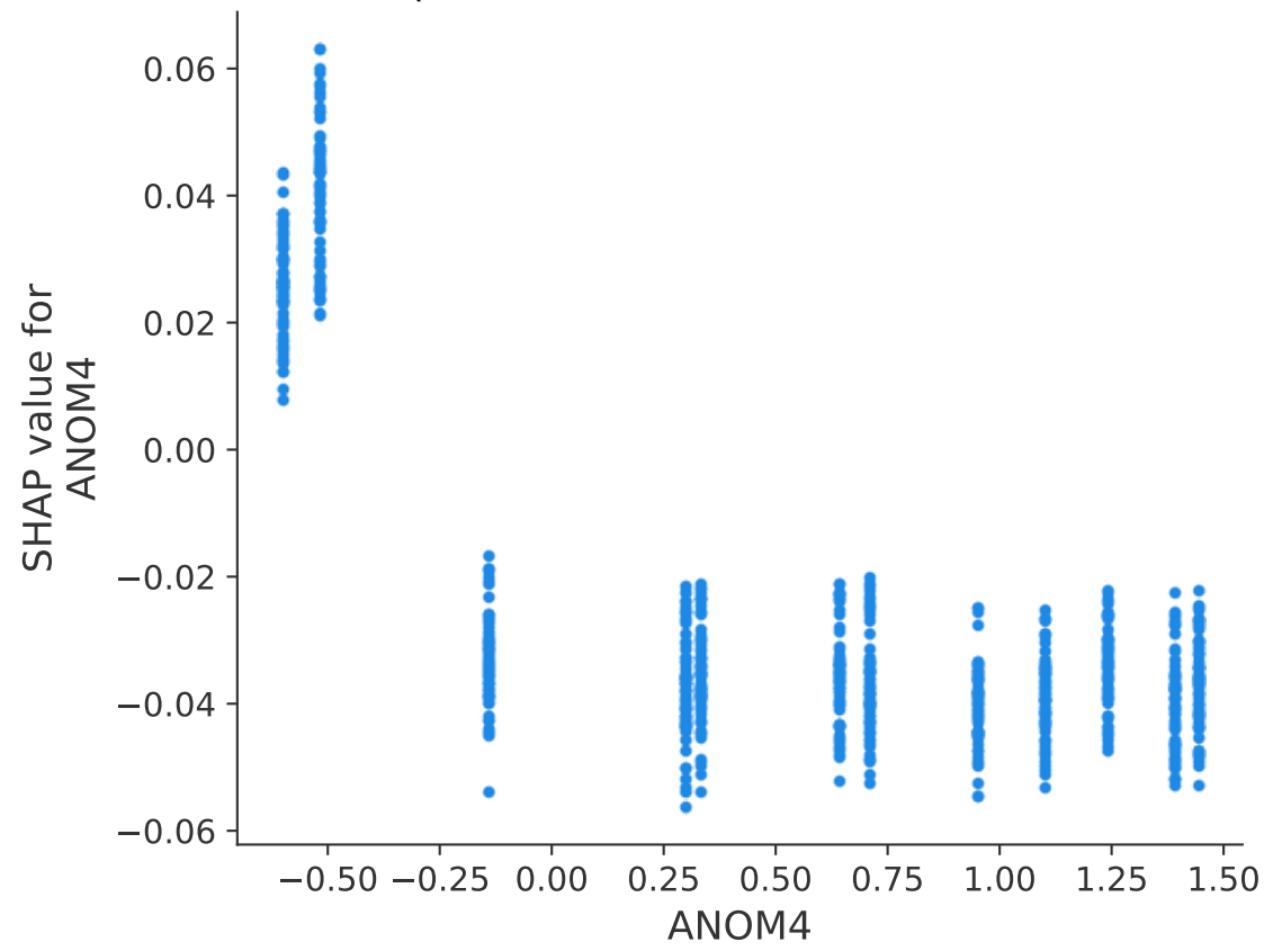
-0.10

0.00

0.10

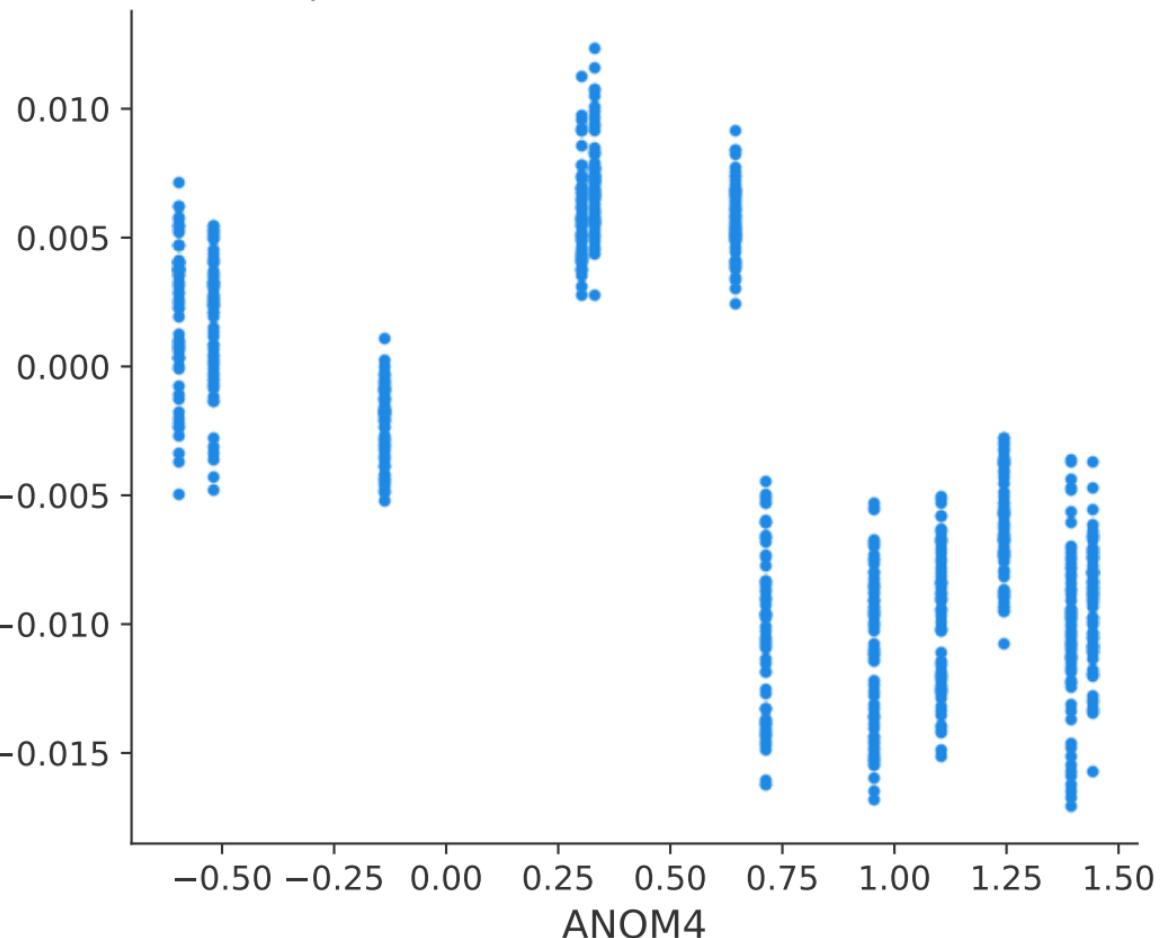
Class_40

SHAP Dependence Plot for ANOM4, Class 0 - Sulawesi



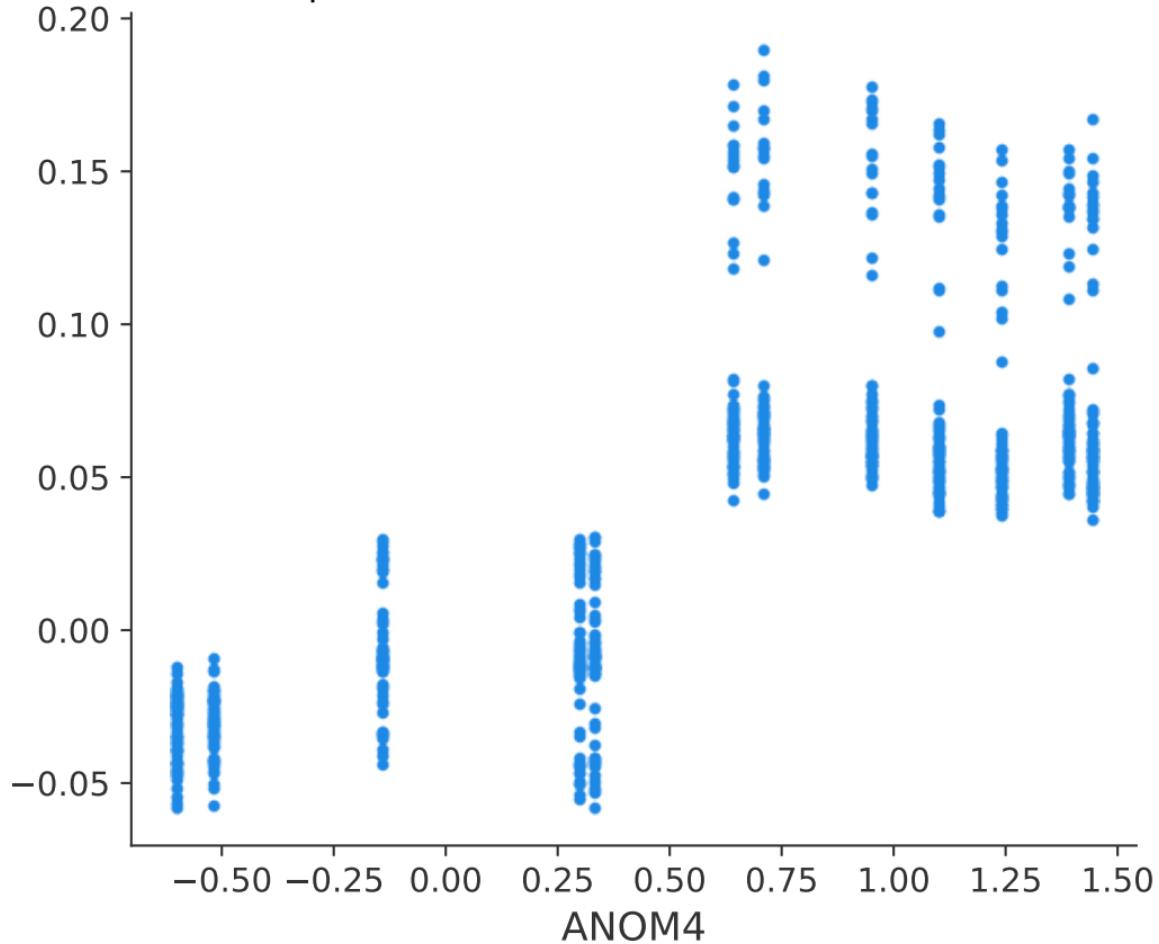
SHAP Dependence Plot for ANOM4, Class 1 - Sulawesi

SHAP value for
ANOM4



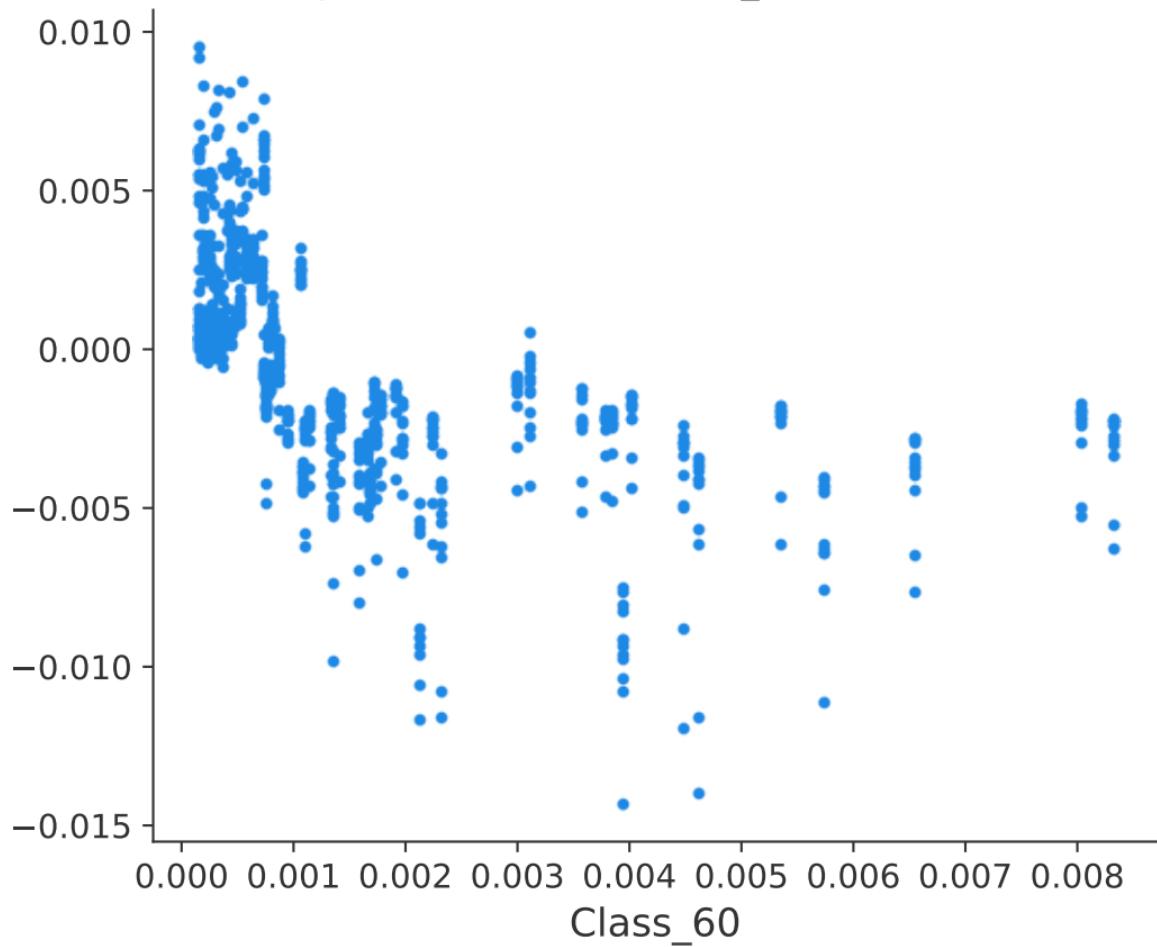
SHAP Dependence Plot for ANOM4, Class 2 - Sulawesi

SHAP value for
ANOM4



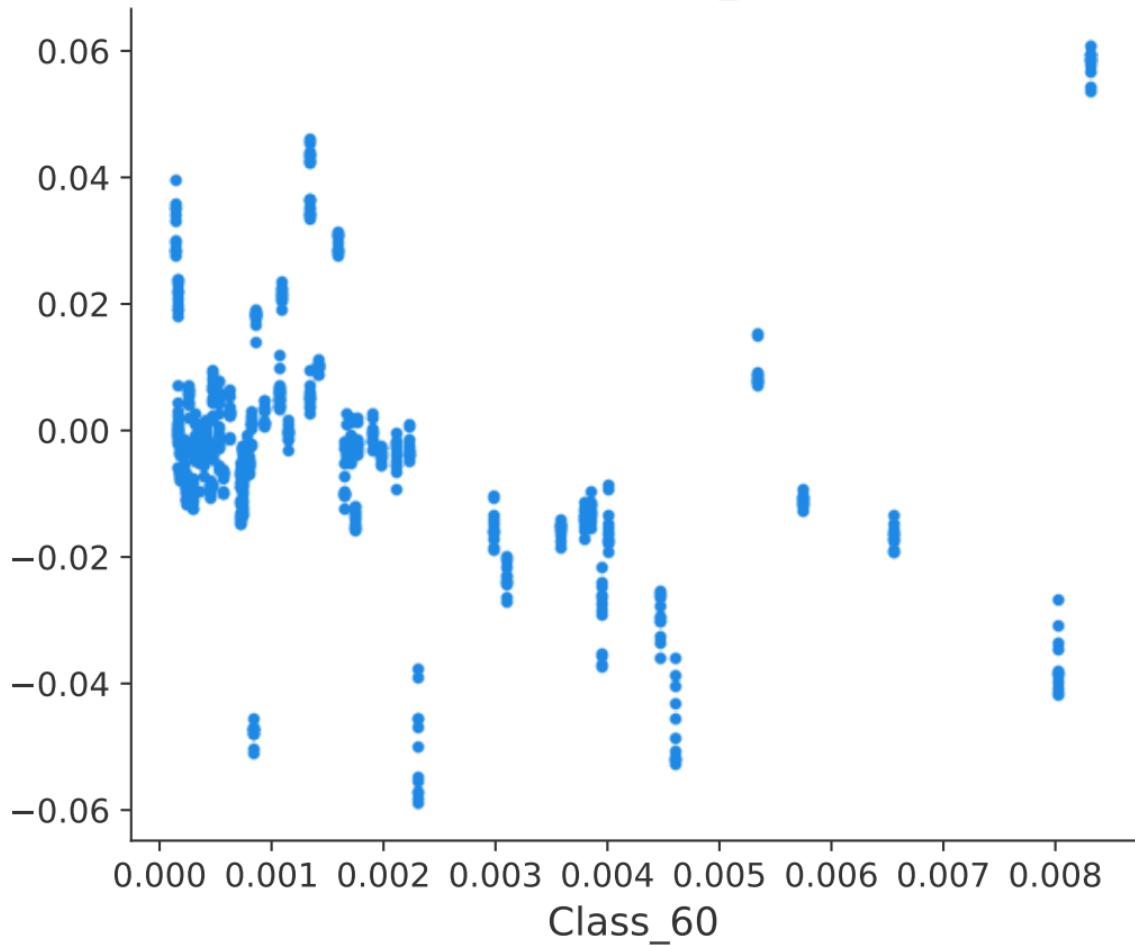
SHAP Dependence Plot for Class_60, Class 0 - Sulawesi

SHAP value for
Class_60



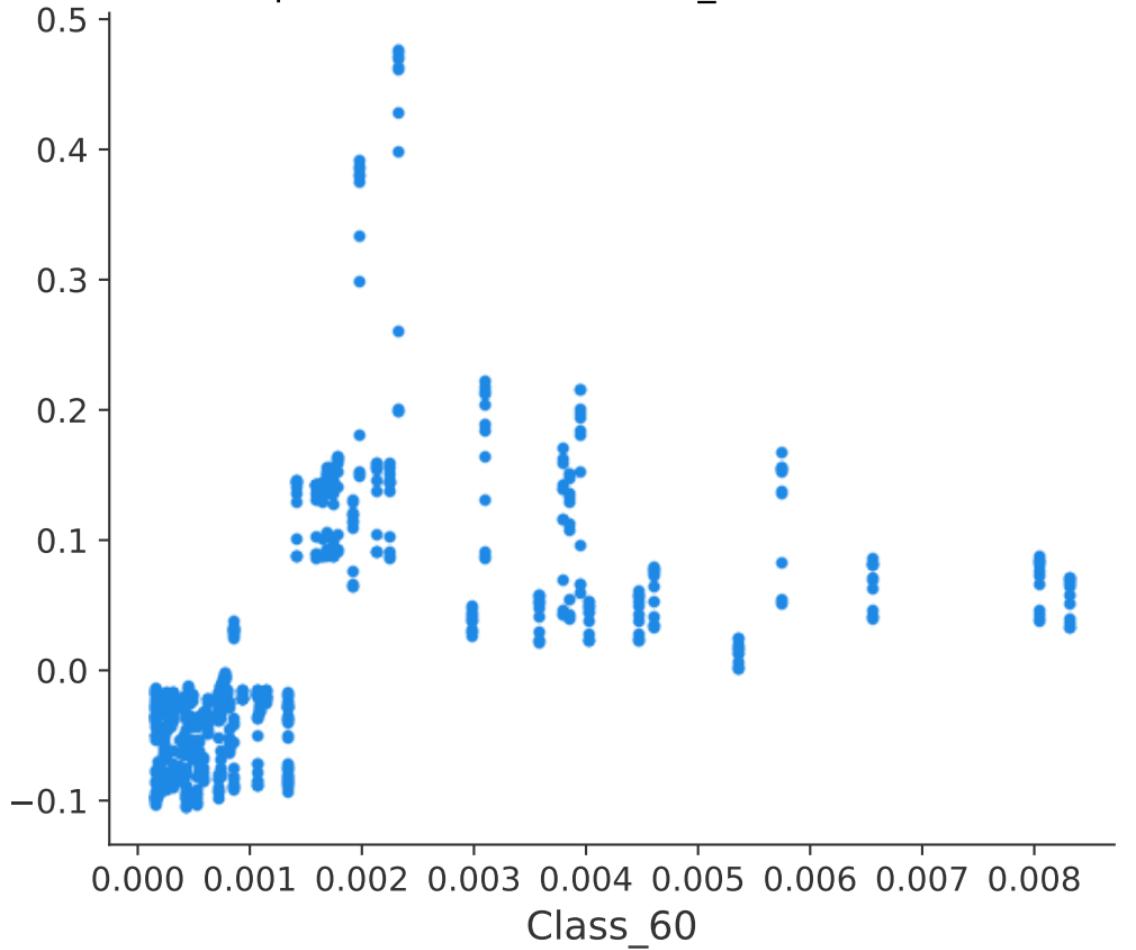
SHAP Dependence Plot for Class_60, Class 1 - Sulawesi

SHAP value for
Class_60

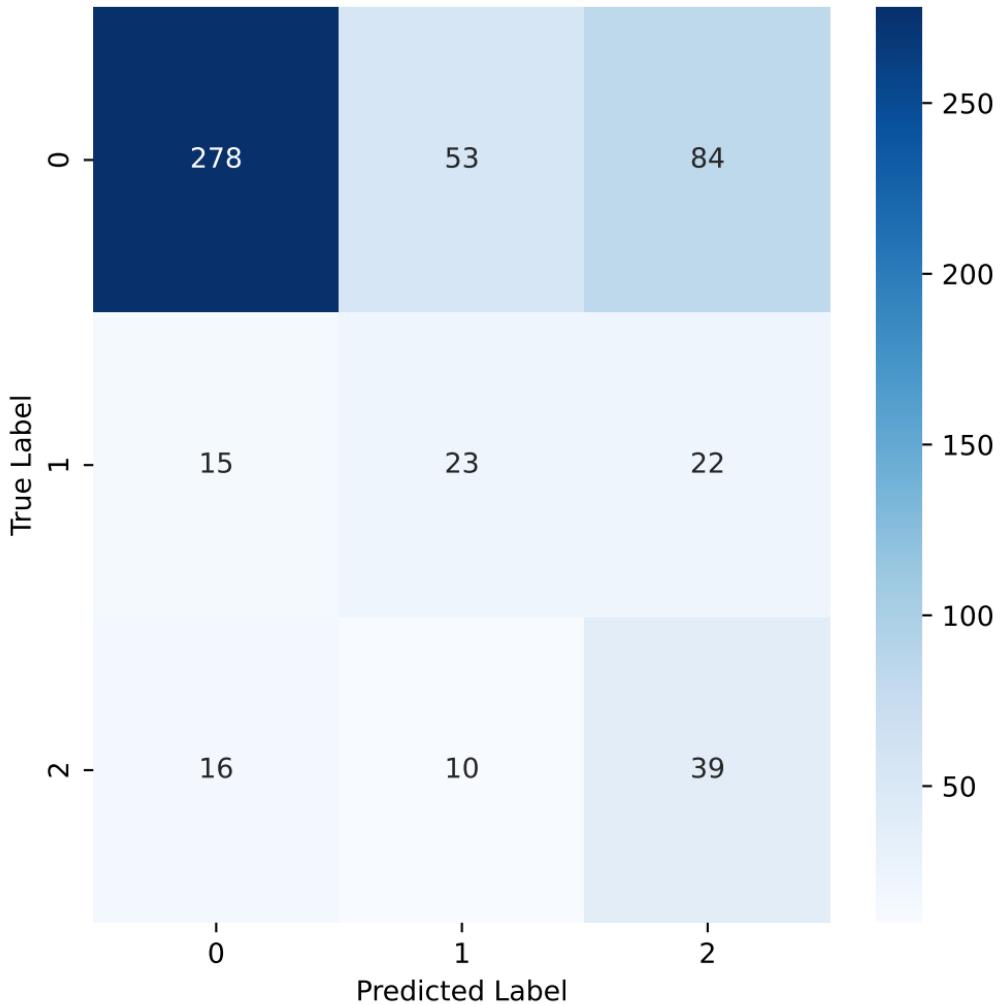


SHAP Dependence Plot for Class_60, Class 2 - Sulawesi

SHAP value for
Class_60

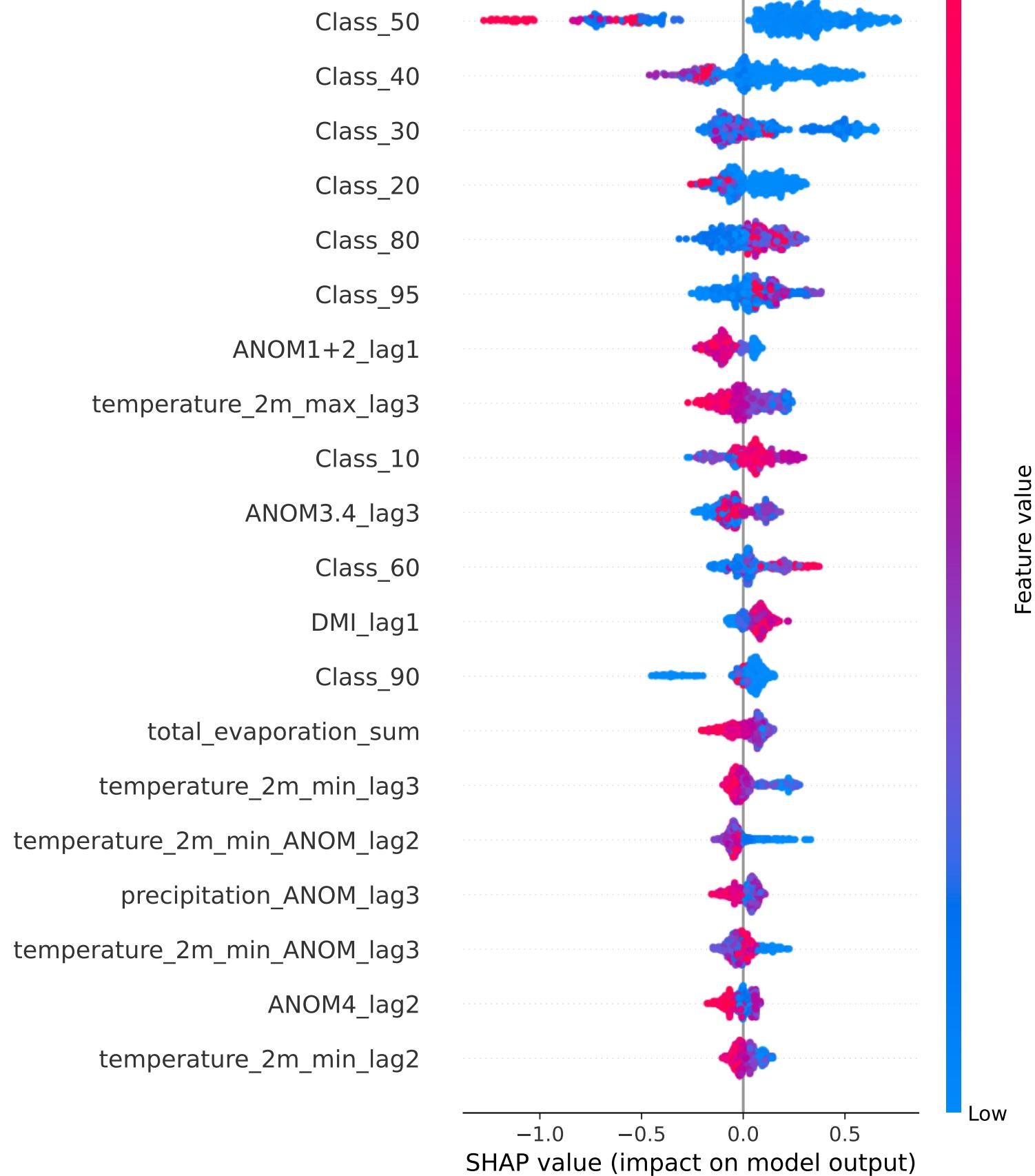


Confusion Matrix - Maluku-Papua



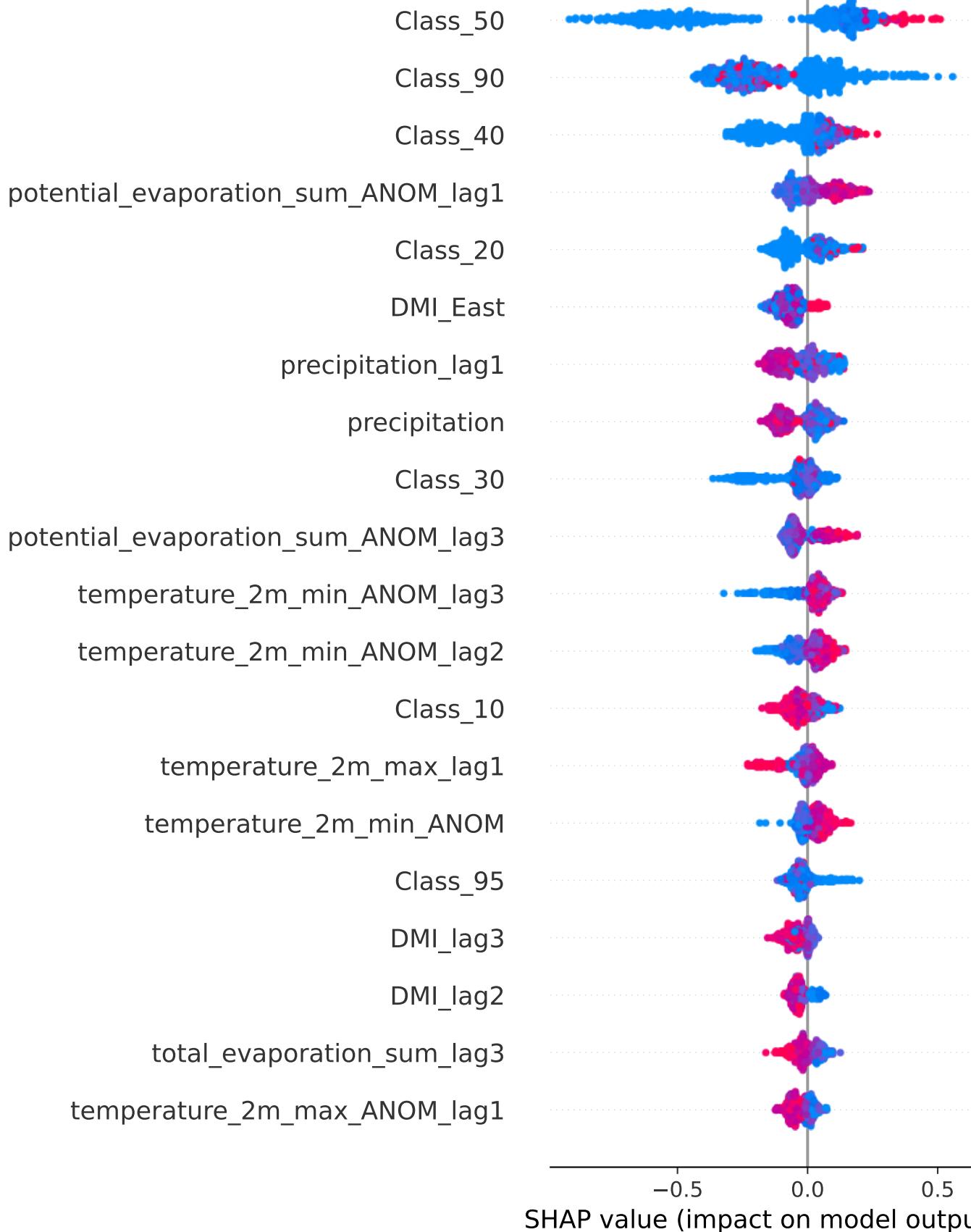
SHAP Beeswarm Plot for Class 0 - Maluku-Papua

High



SHAP Beeswarm Plot for Class 1 - Maluku-Papua

High



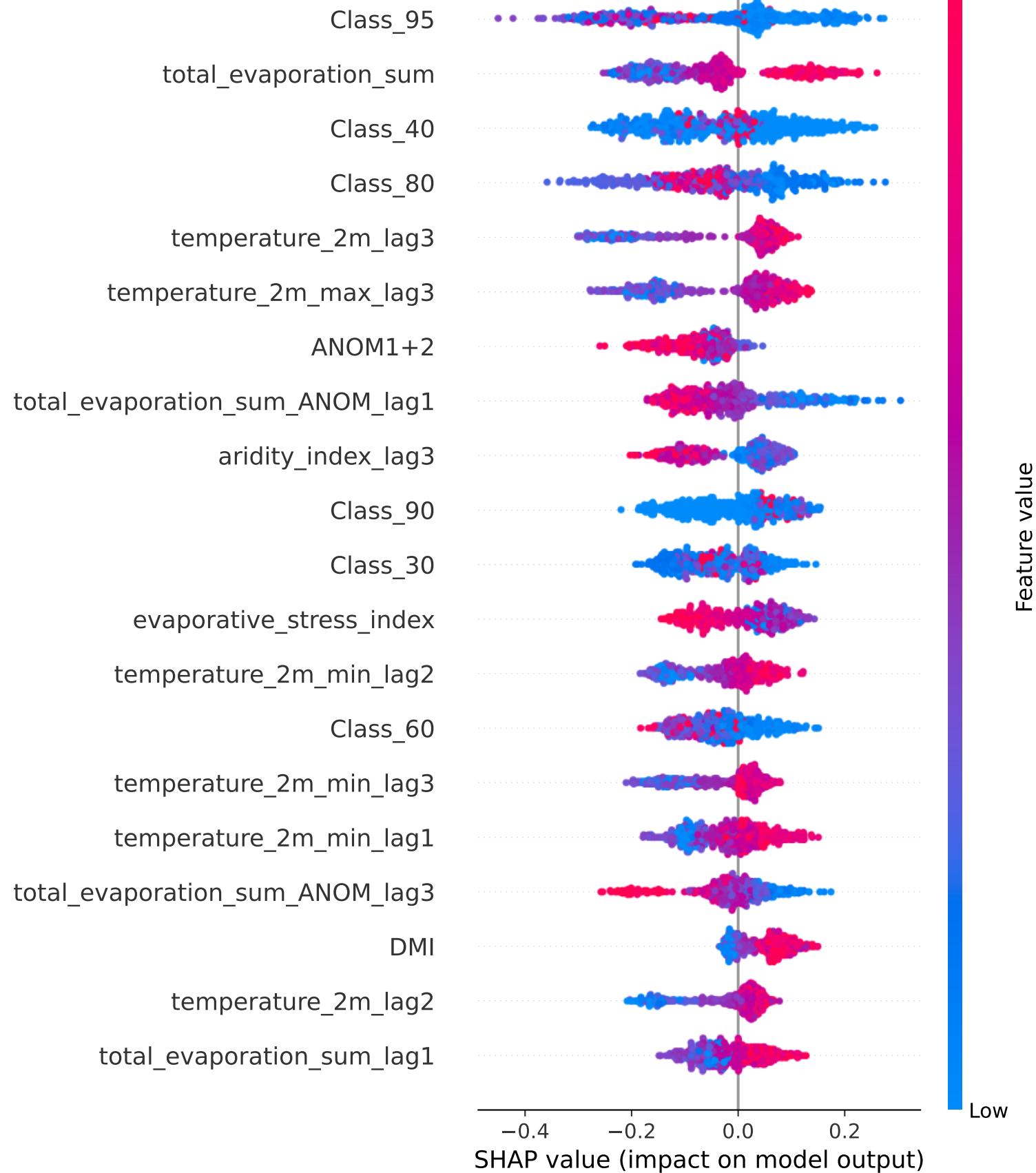
Feature value

Low

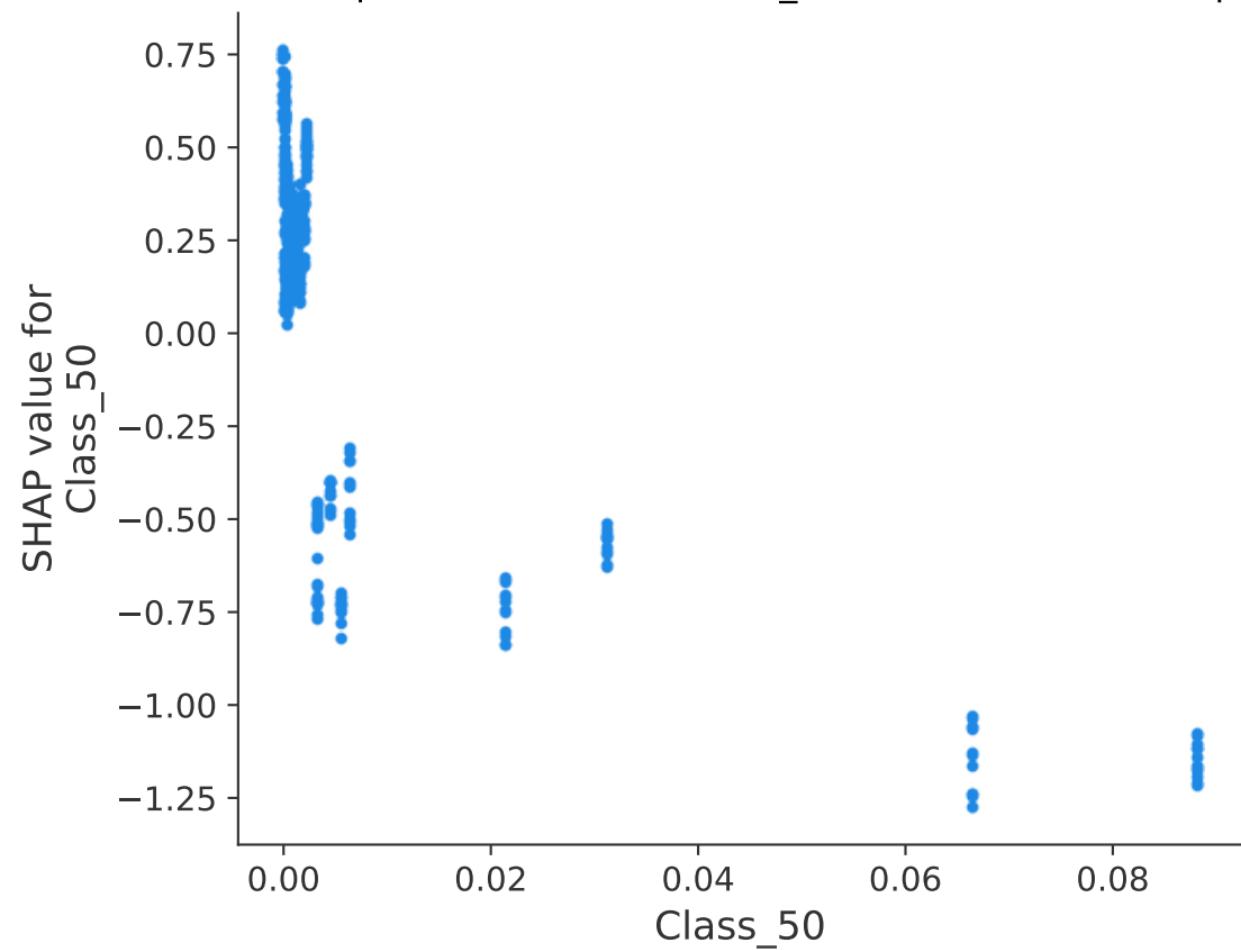
SHAP value (impact on model output)

SHAP Beeswarm Plot for Class 2 - Maluku-Papua

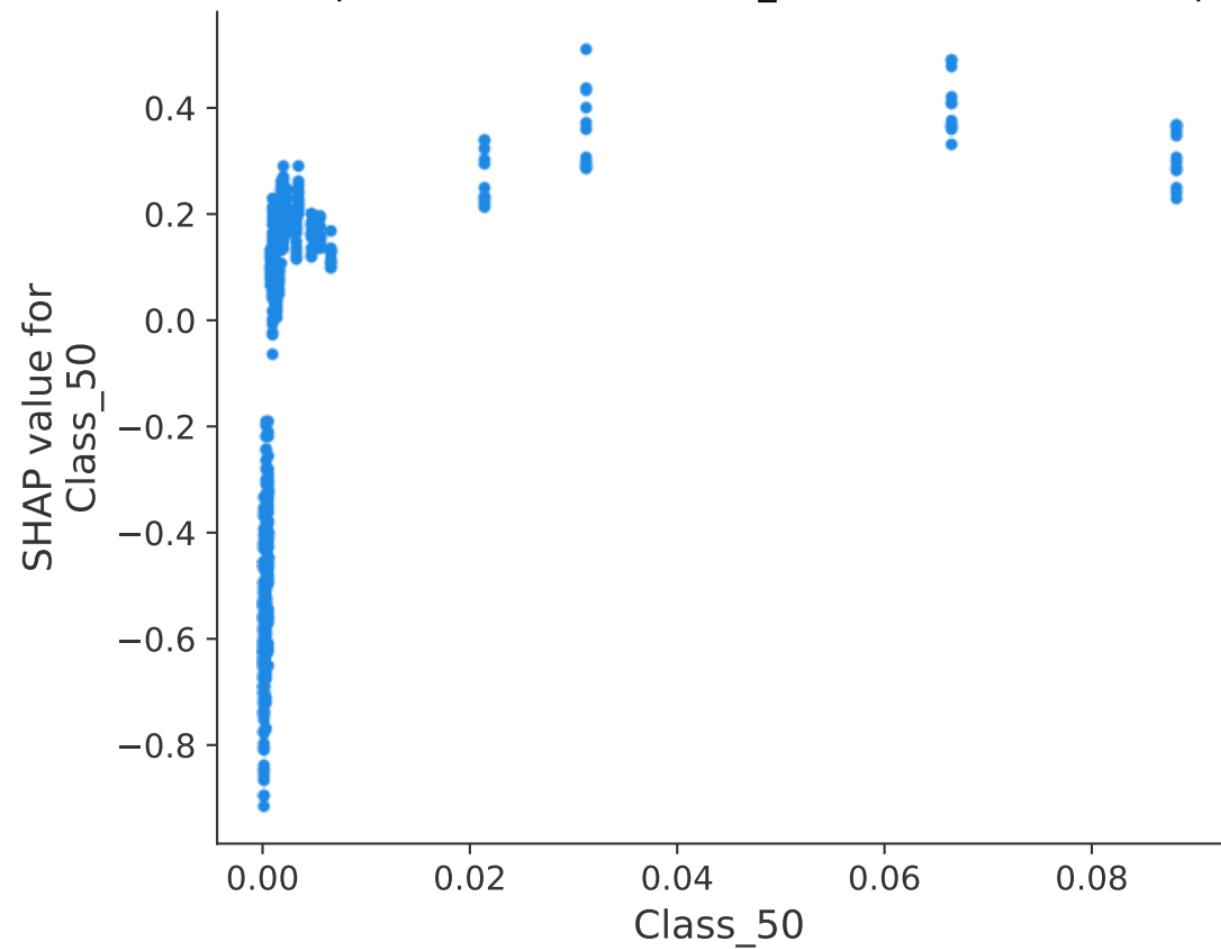
High



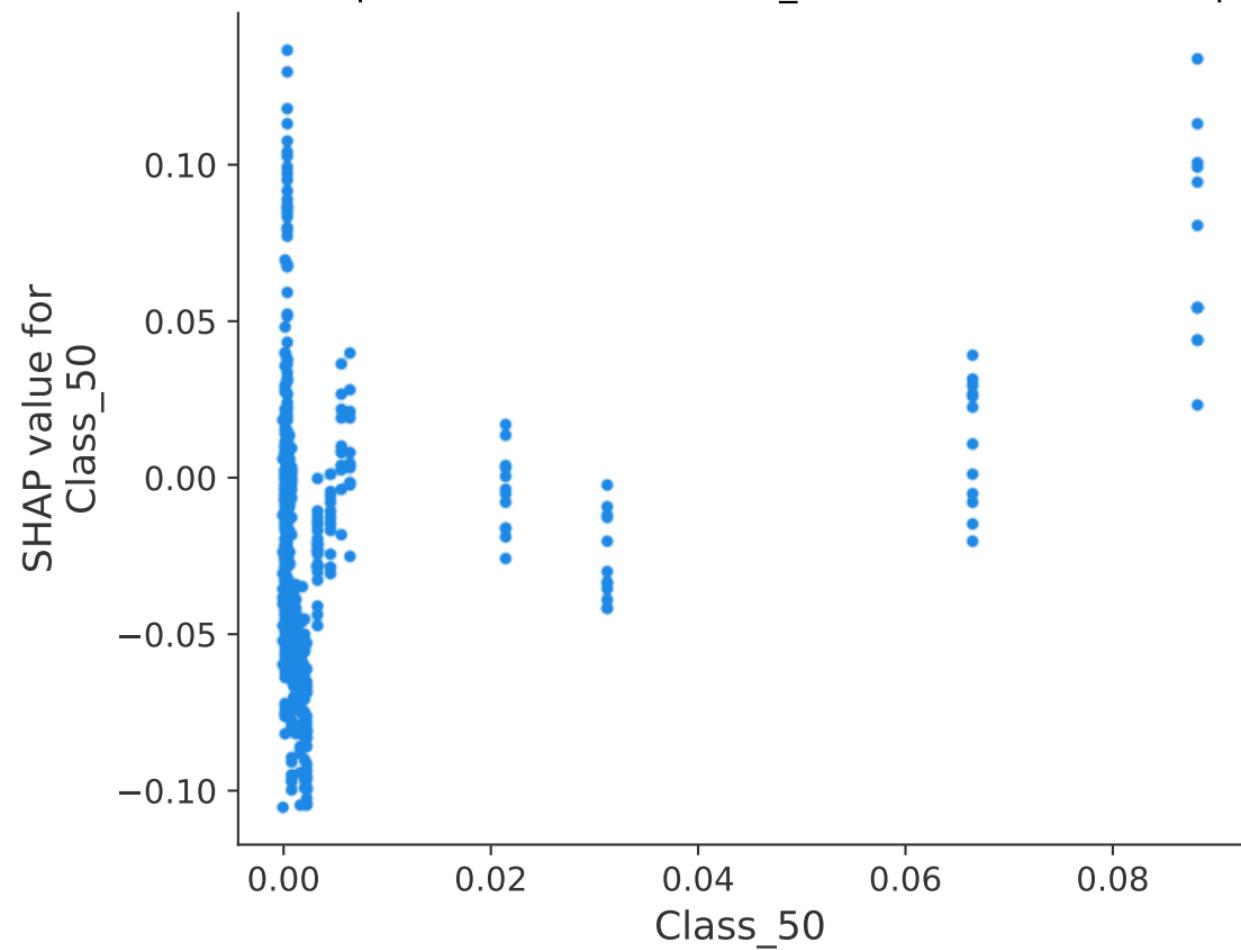
SHAP Dependence Plot for Class_50, Class 0 - Maluku-Papua



SHAP Dependence Plot for Class_50, Class 1 - Maluku-Papua

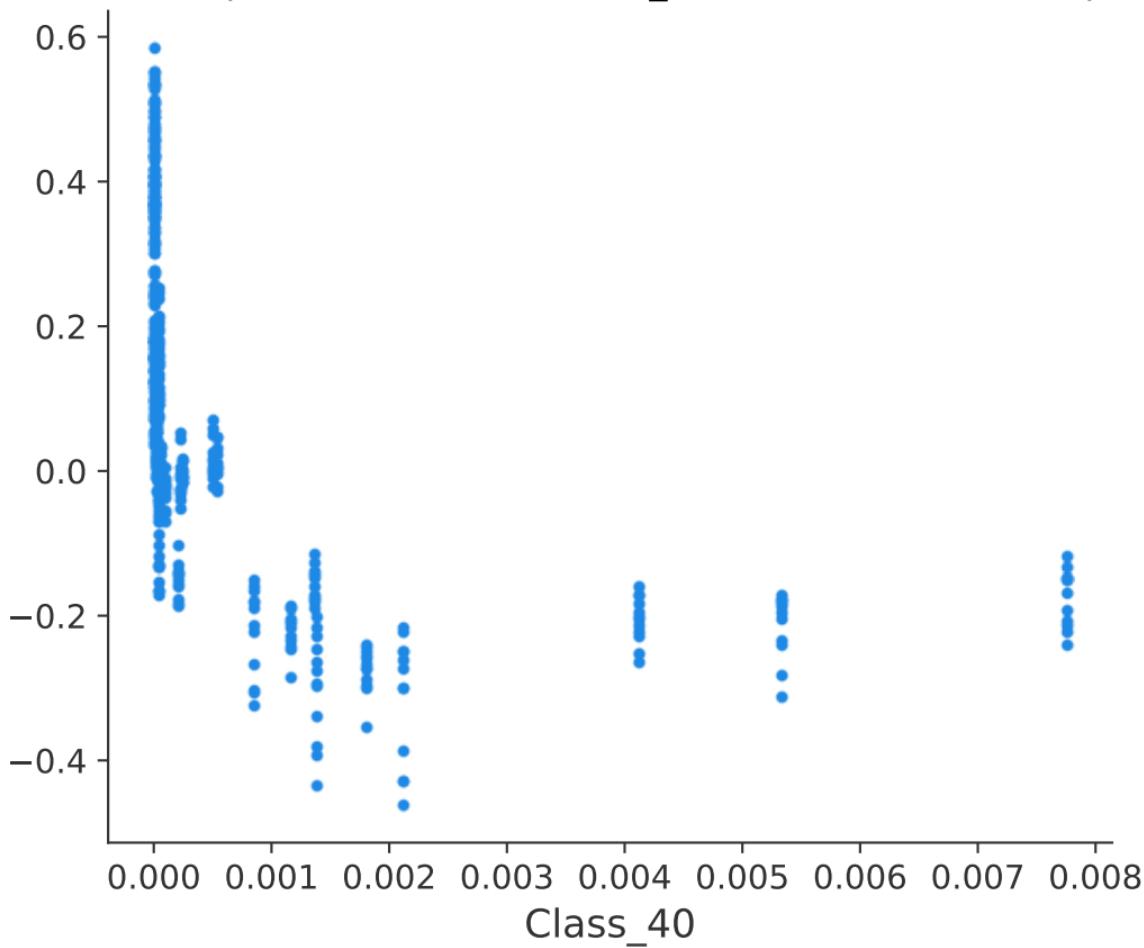


SHAP Dependence Plot for Class_50, Class 2 - Maluku-Papua

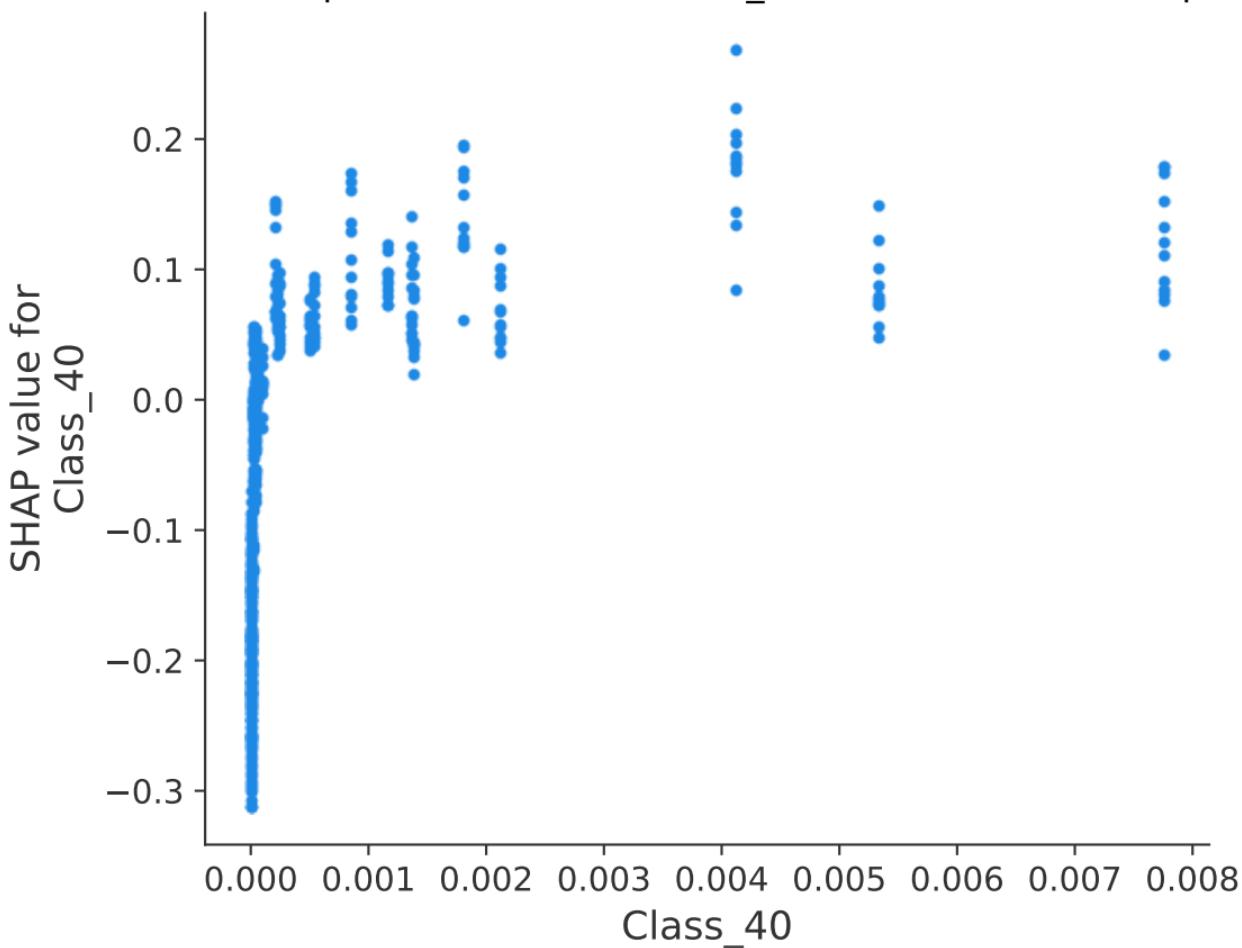


SHAP Dependence Plot for Class_40, Class 0 - Maluku-Papua

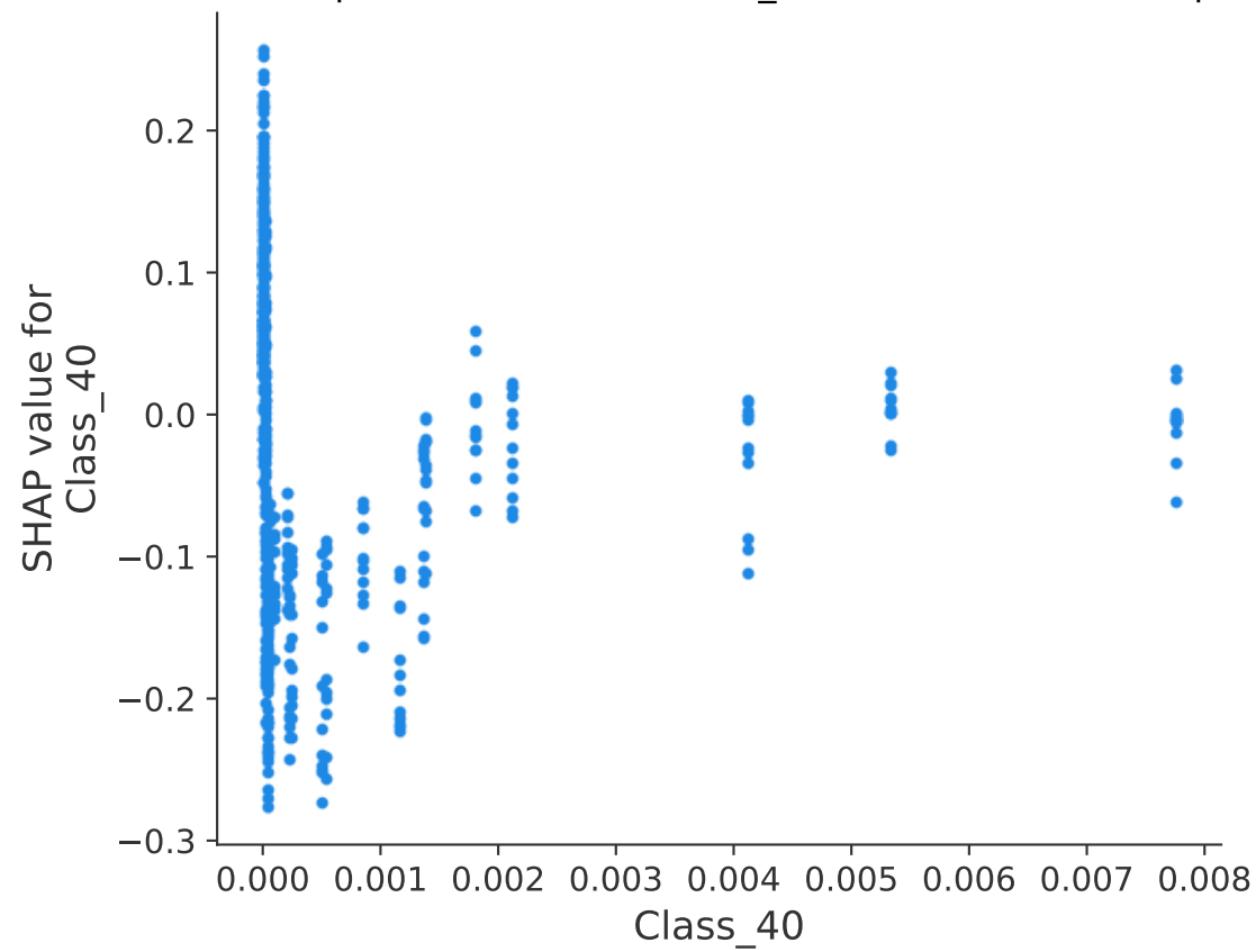
SHAP value for
Class_40



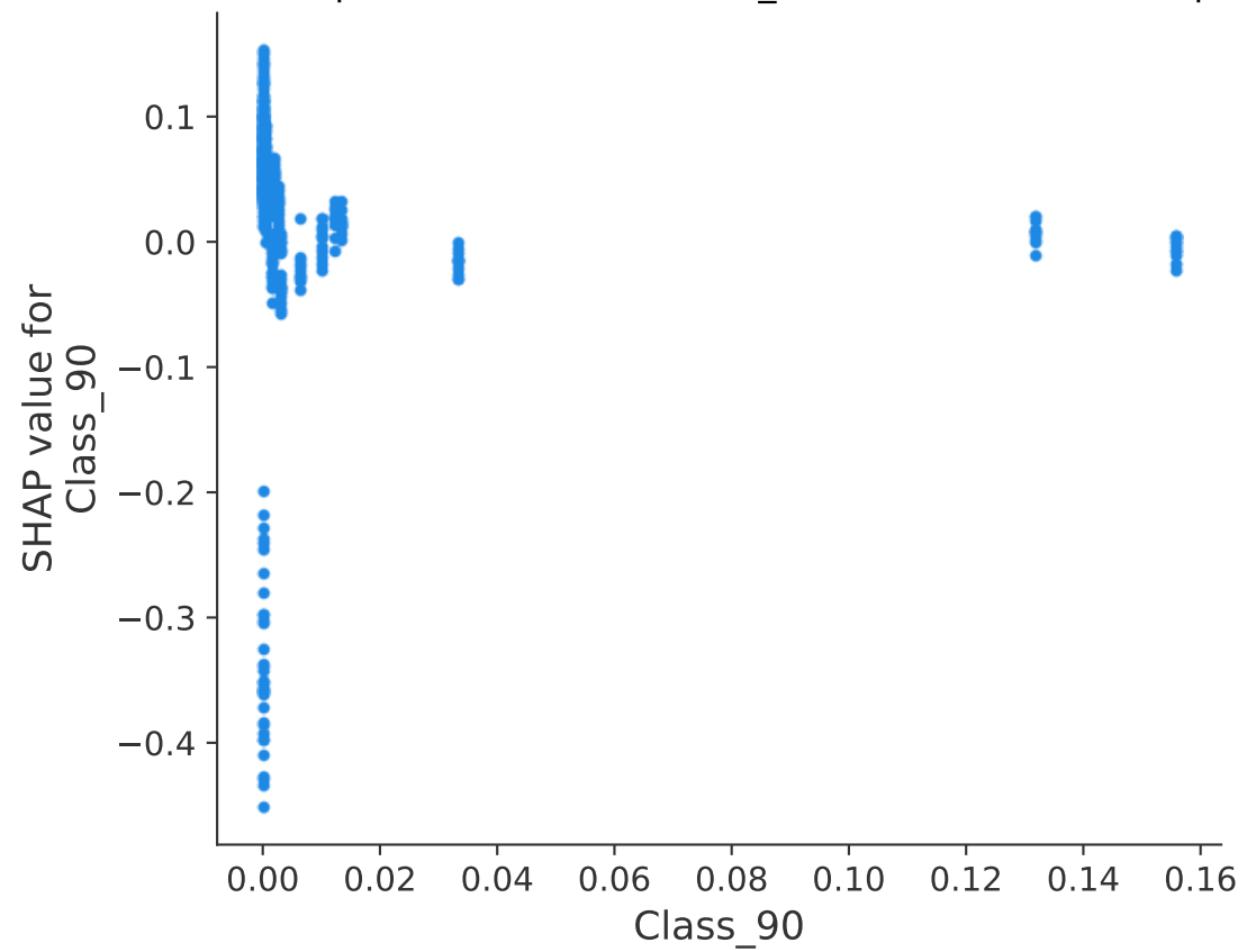
SHAP Dependence Plot for Class_40, Class 1 - Maluku-Papua



SHAP Dependence Plot for Class_40, Class 2 - Maluku-Papua

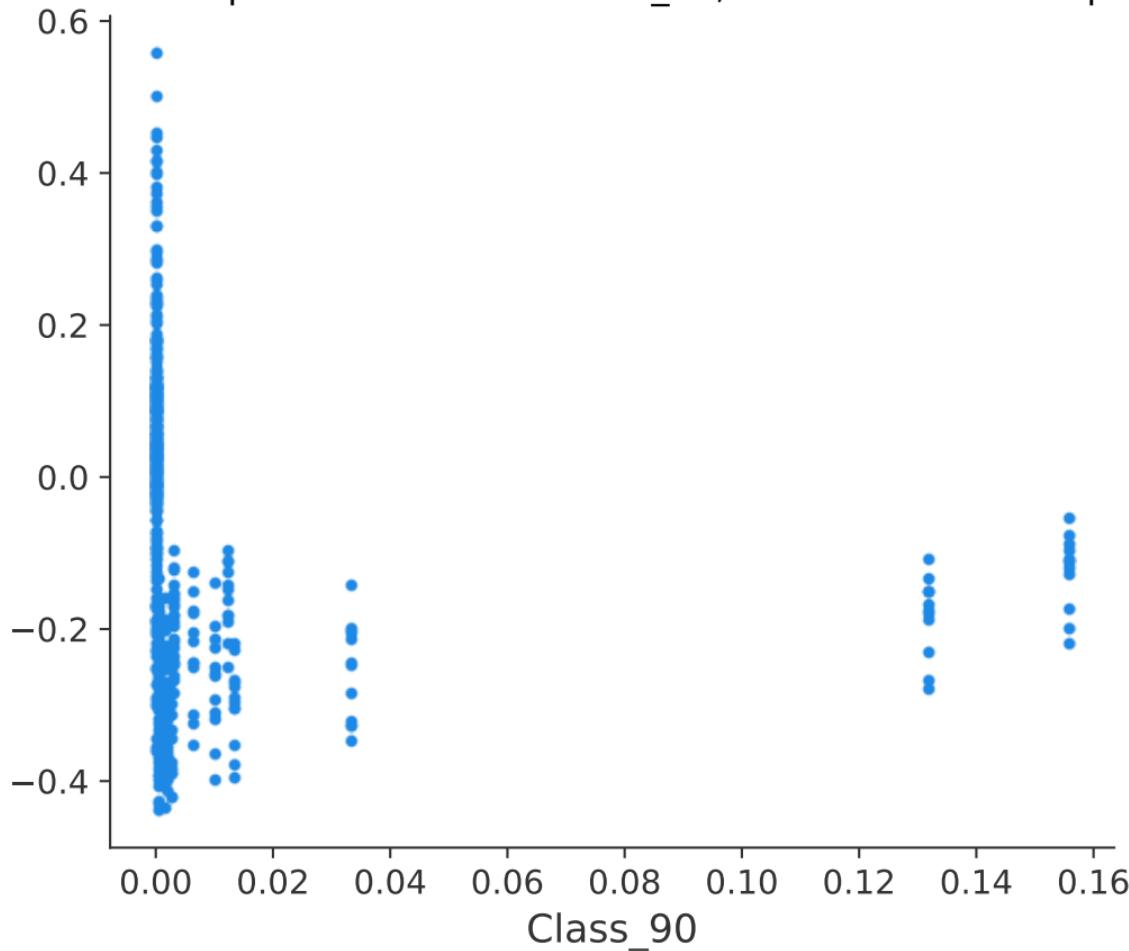


SHAP Dependence Plot for Class_90, Class 0 - Maluku-Papua

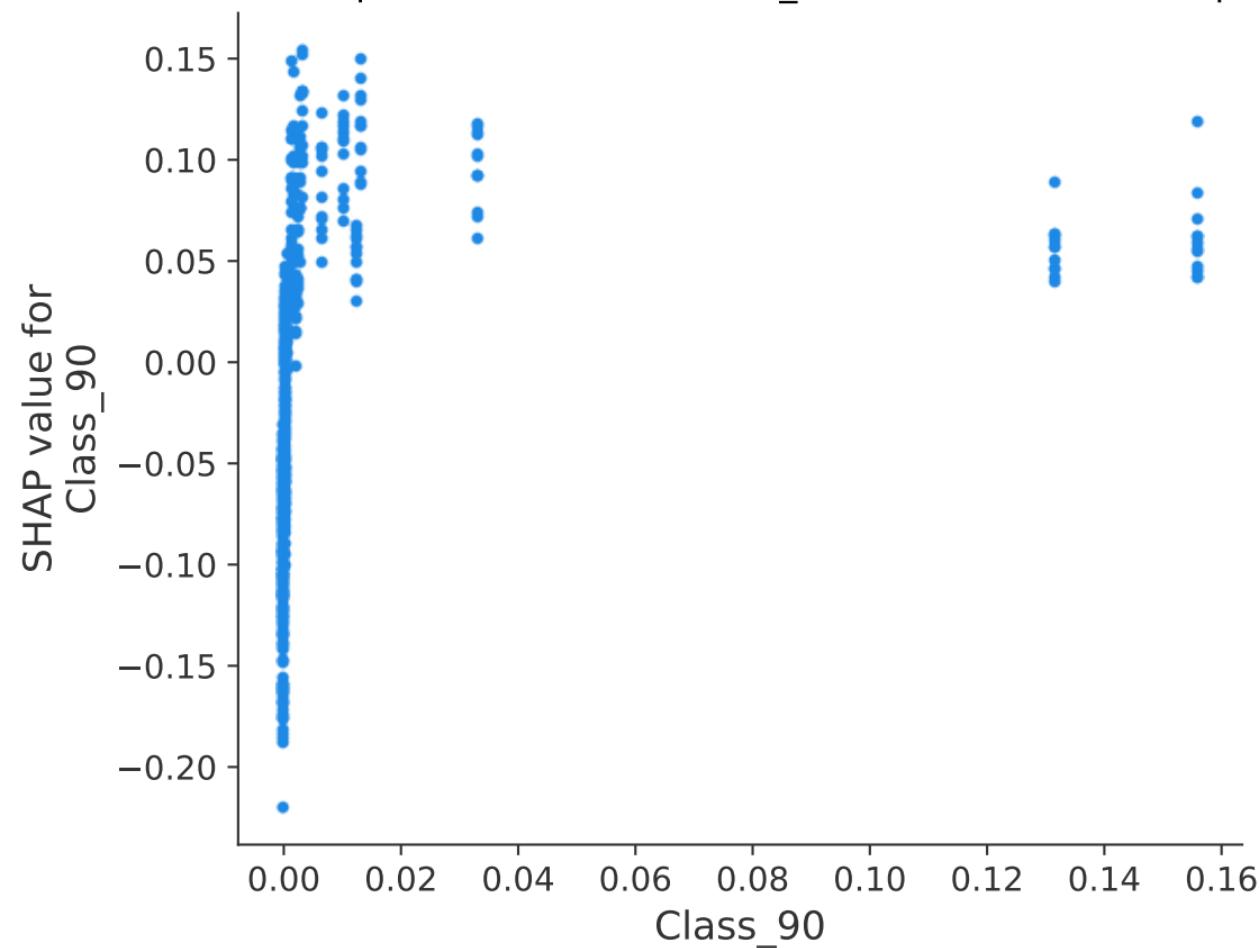


SHAP Dependence Plot for Class_90, Class 1 - Maluku-Papua

SHAP value for
Class_90

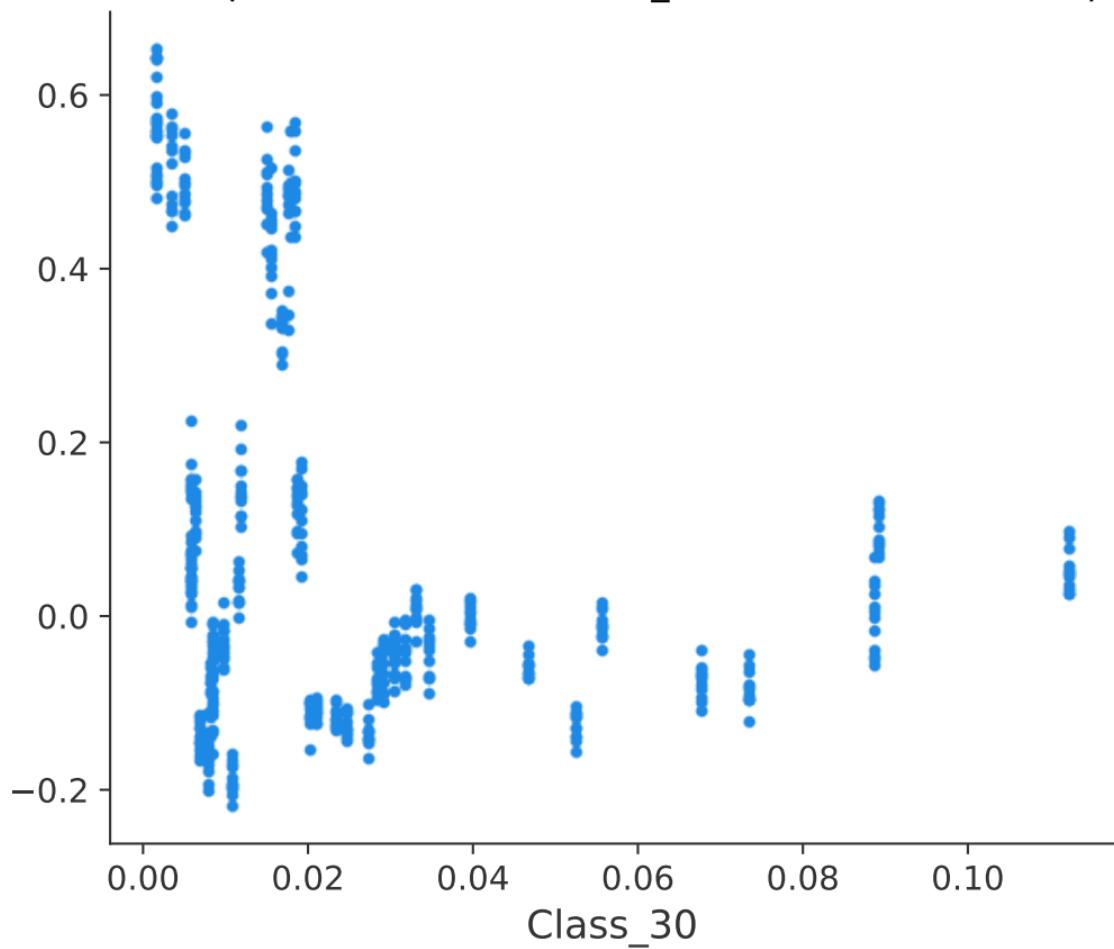


SHAP Dependence Plot for Class_90, Class 2 - Maluku-Papua



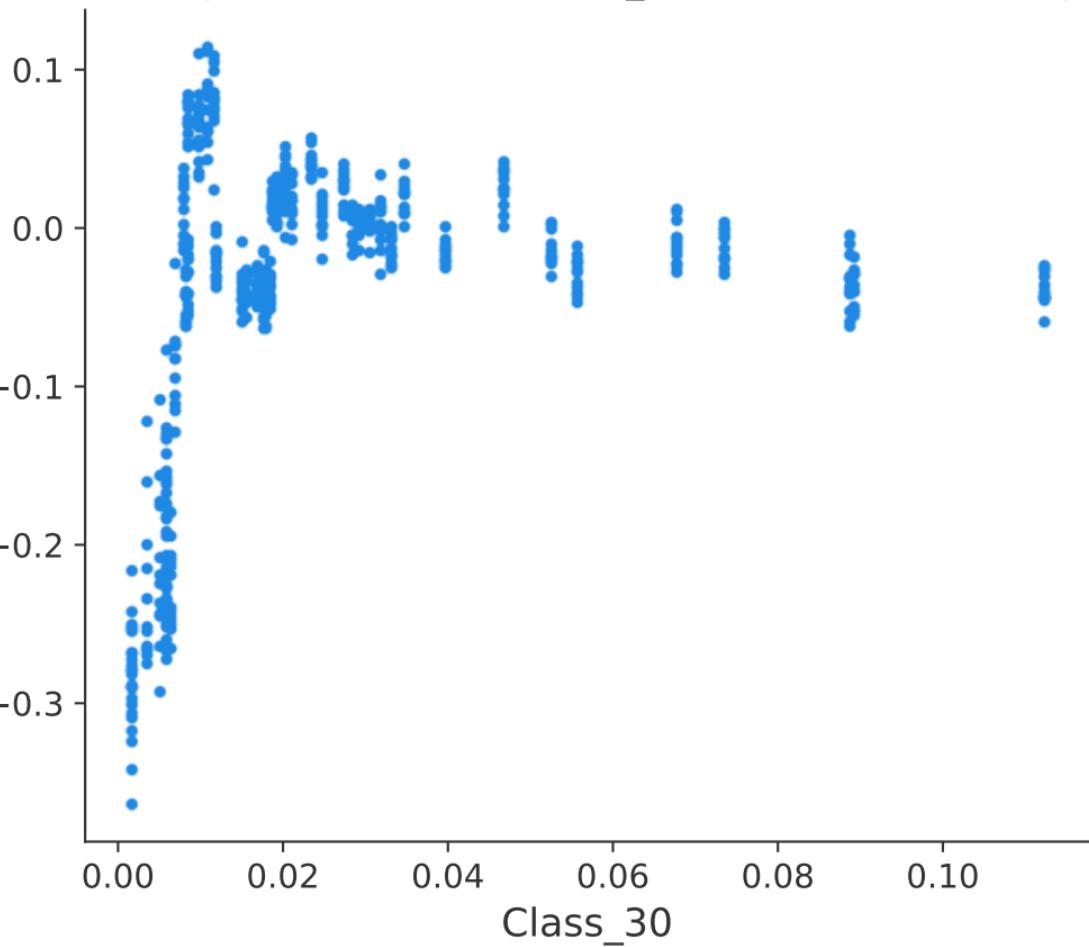
SHAP Dependence Plot for Class_30, Class 0 - Maluku-Papua

SHAP value for
Class_30

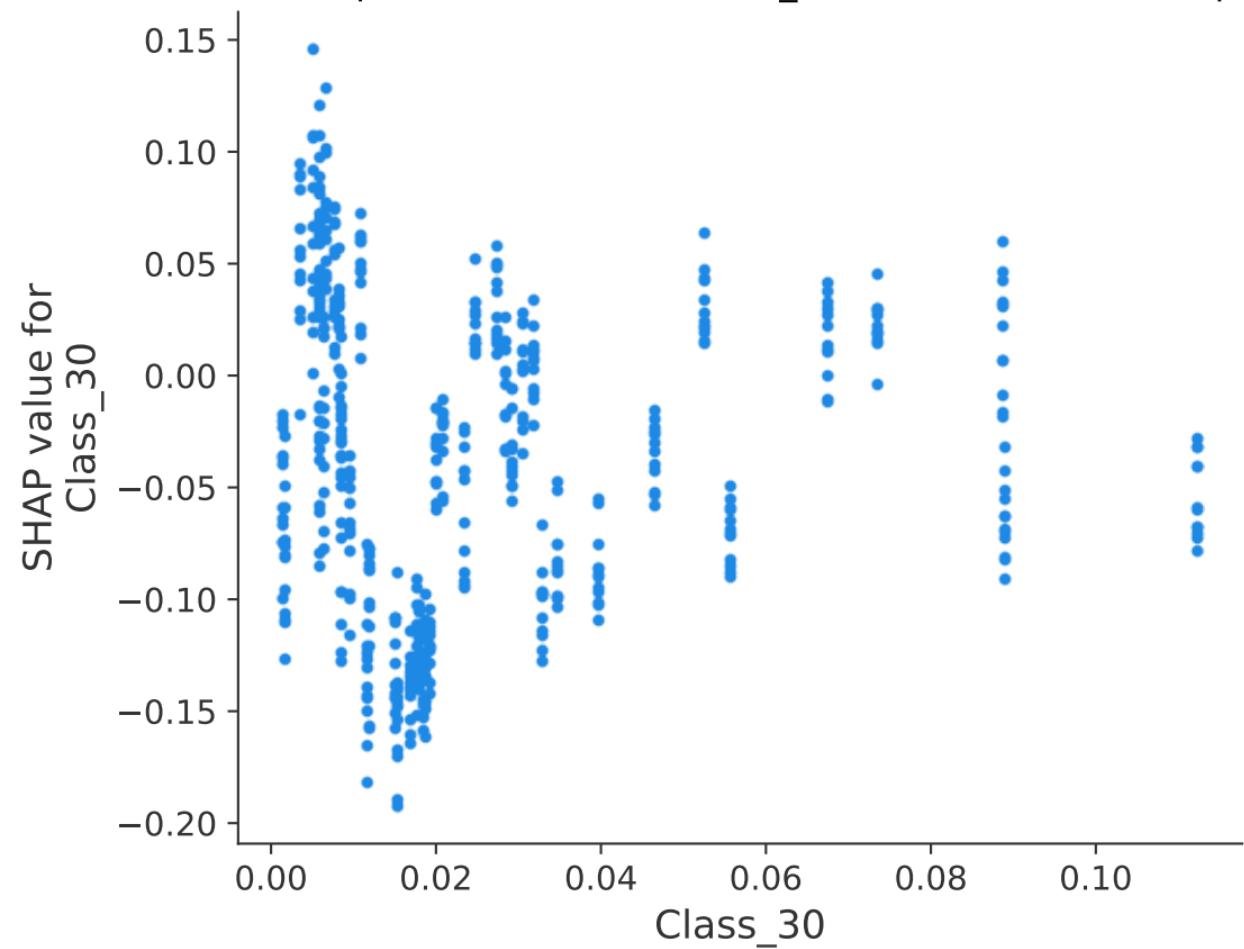


SHAP Dependence Plot for Class_30, Class 1 - Maluku-Papua

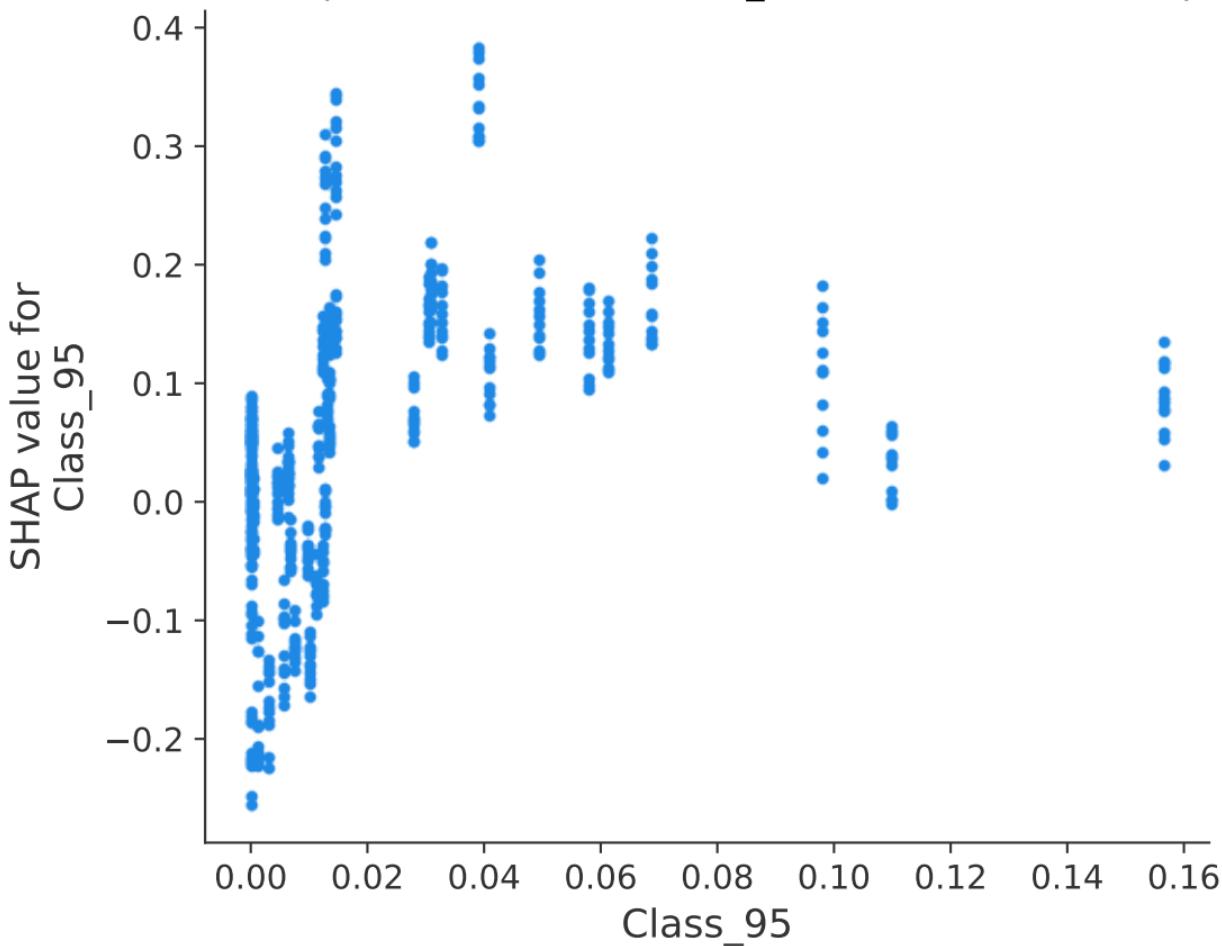
SHAP value for
Class_30



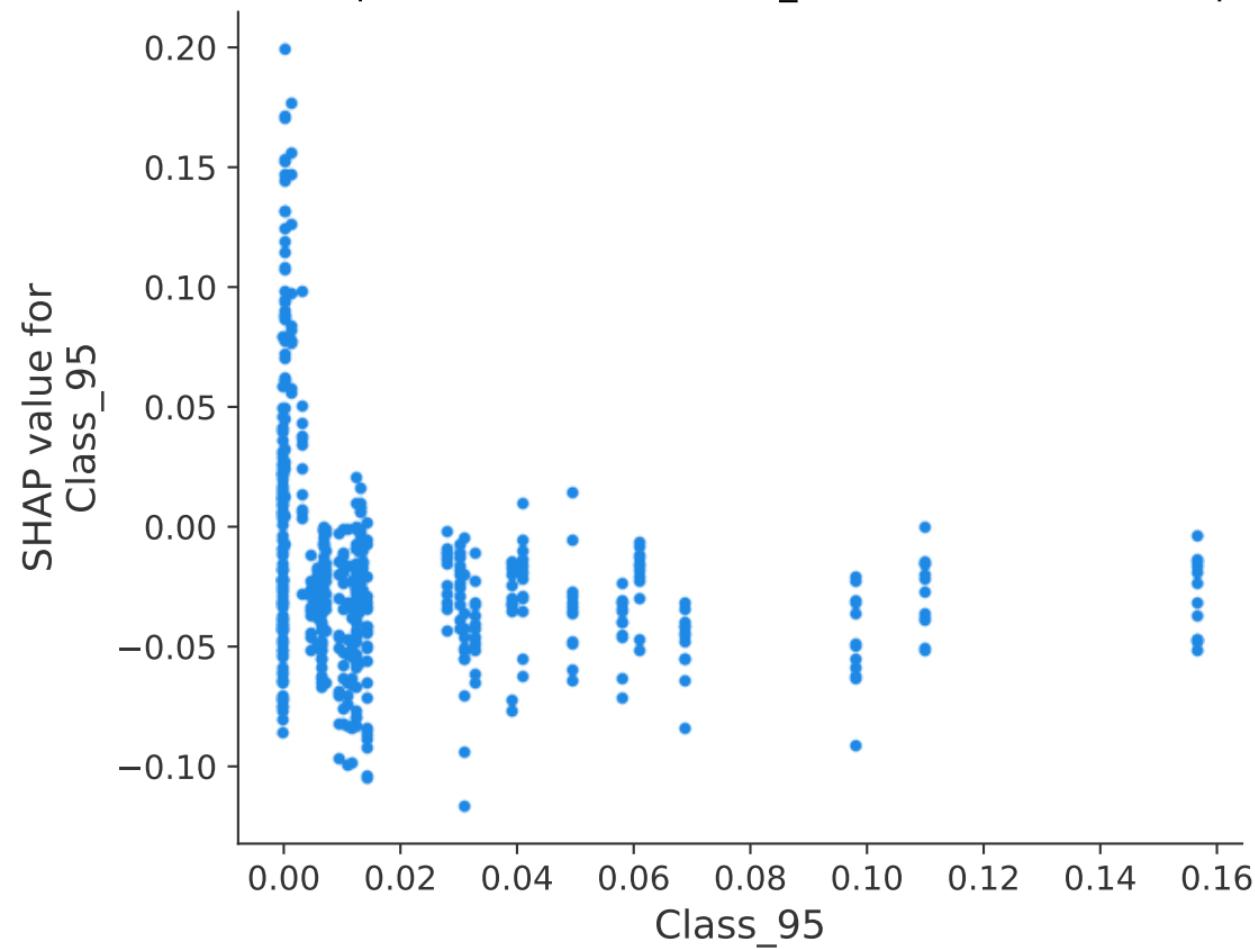
SHAP Dependence Plot for Class_30, Class 2 - Maluku-Papua



SHAP Dependence Plot for Class_95, Class 0 - Maluku-Papua



SHAP Dependence Plot for Class_95, Class 1 - Maluku-Papua



SHAP Dependence Plot for Class_95, Class 2 - Maluku-Papua

SHAP value for
Class_95

0.3

0.2

0.1

0.0

-0.1

-0.2

-0.3

-0.4

0.00

0.02

0.04

0.06

0.08

0.10

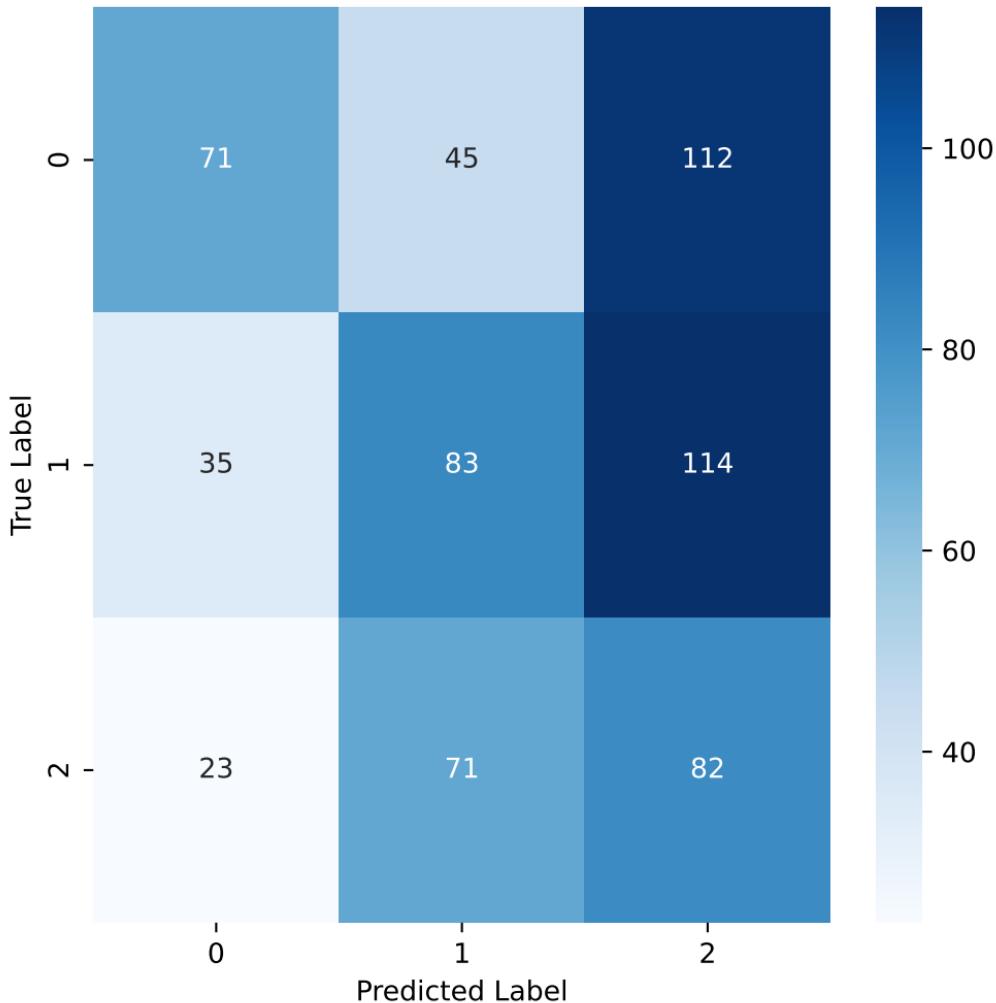
0.12

0.14

0.16

Class_95

Confusion Matrix - Kalimantan

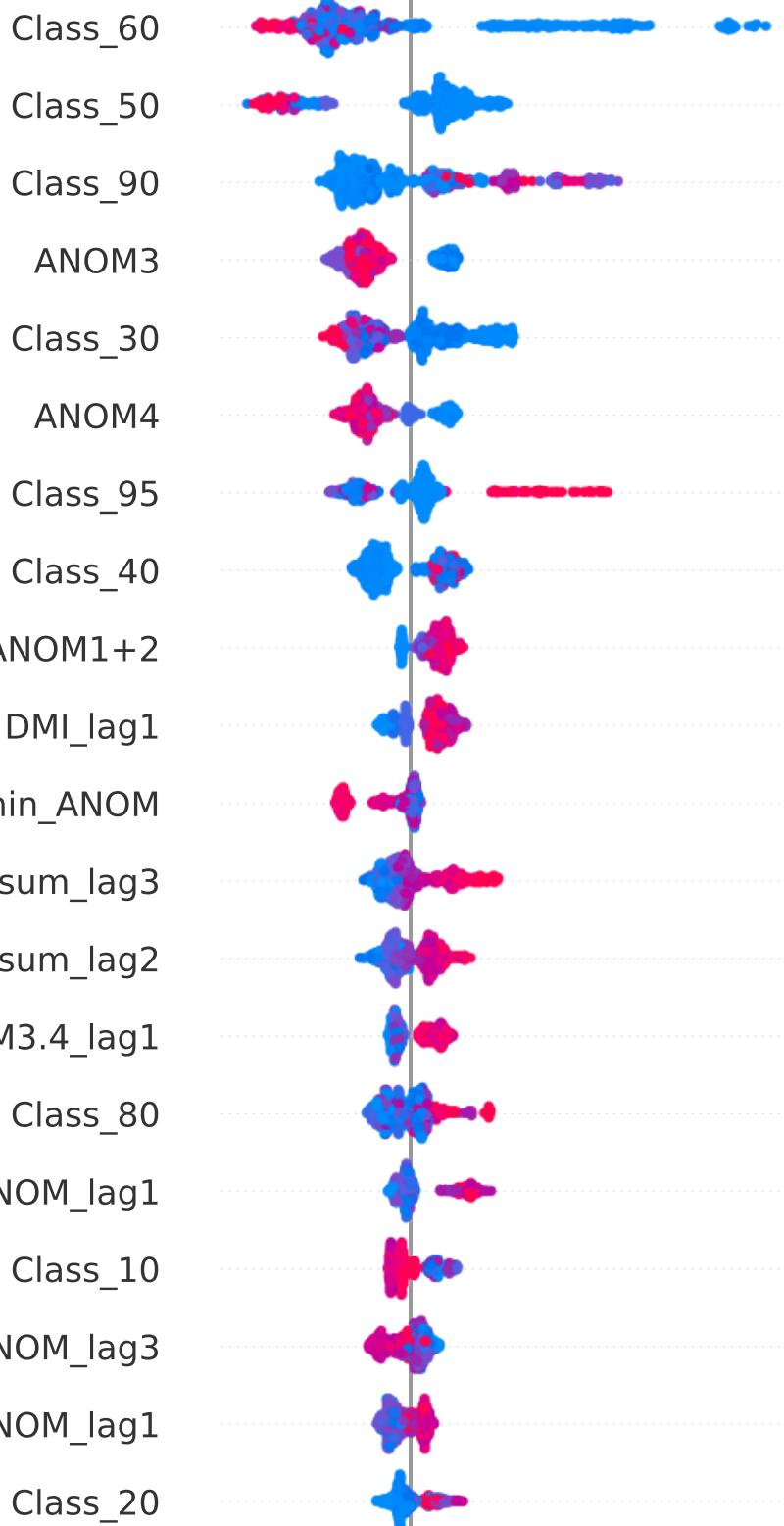


SHAP Beeswarm Plot for Class 0 - Kalimantan

High

Feature value

Low



SHAP value (impact on model output)

SHAP Beeswarm Plot for Class 1 - Kalimantan

High

temperature_2m_max_lag3

Class_40

Class_50

ANOM1+2_lag3

temperature_2m

Class_20

DMI

total_evaporation_sum

potential_evaporation_sum_lag3

temperature_2m_ANOM_lag1

DMI_East_lag1

temperature_2m_min_lag3

Class_80

temperature_2m_ANOM_lag2

precipitation_ANOM_lag2

Class_95

Class_30

ANOM3_lag1

total_evaporation_sum_ANOM

temperature_2m_lag1

Feature value

Low

-0.25 0.00 0.25 0.50 0.75 1.00

SHAP value (impact on model output)

SHAP Beeswarm Plot for Class 2 - Kalimantan

High

evaporative_stress_index_lag3

ANOM1+2

Class_50

ANOM4

ANOM3

Class_60

Class_40

DMI

Class_80

DMI_lag1

DMI_East_lag3

ANOM4_lag1

Class_95

Class_30

DMI_lag3

precipitation

Class_90

total_evaporation_sum_ANOM_lag2

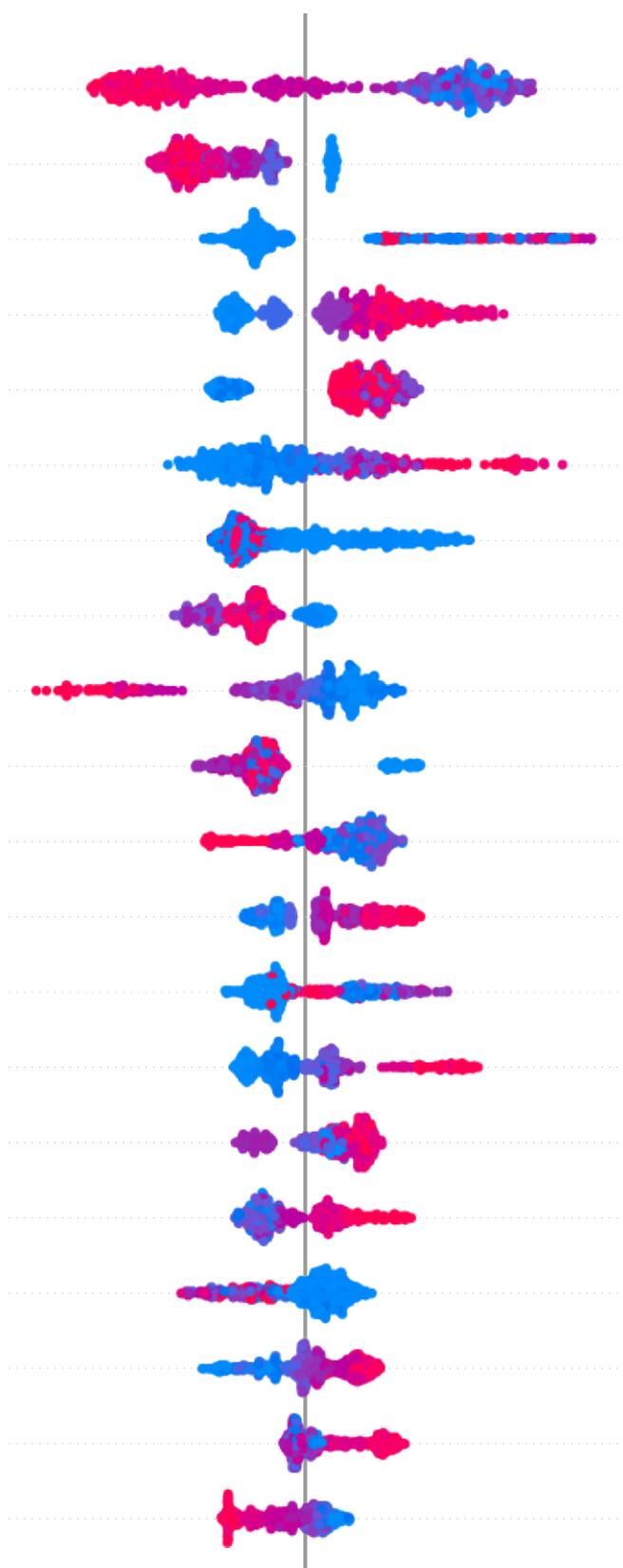
temperature_2m_min_ANOM

temperature_2m

Low

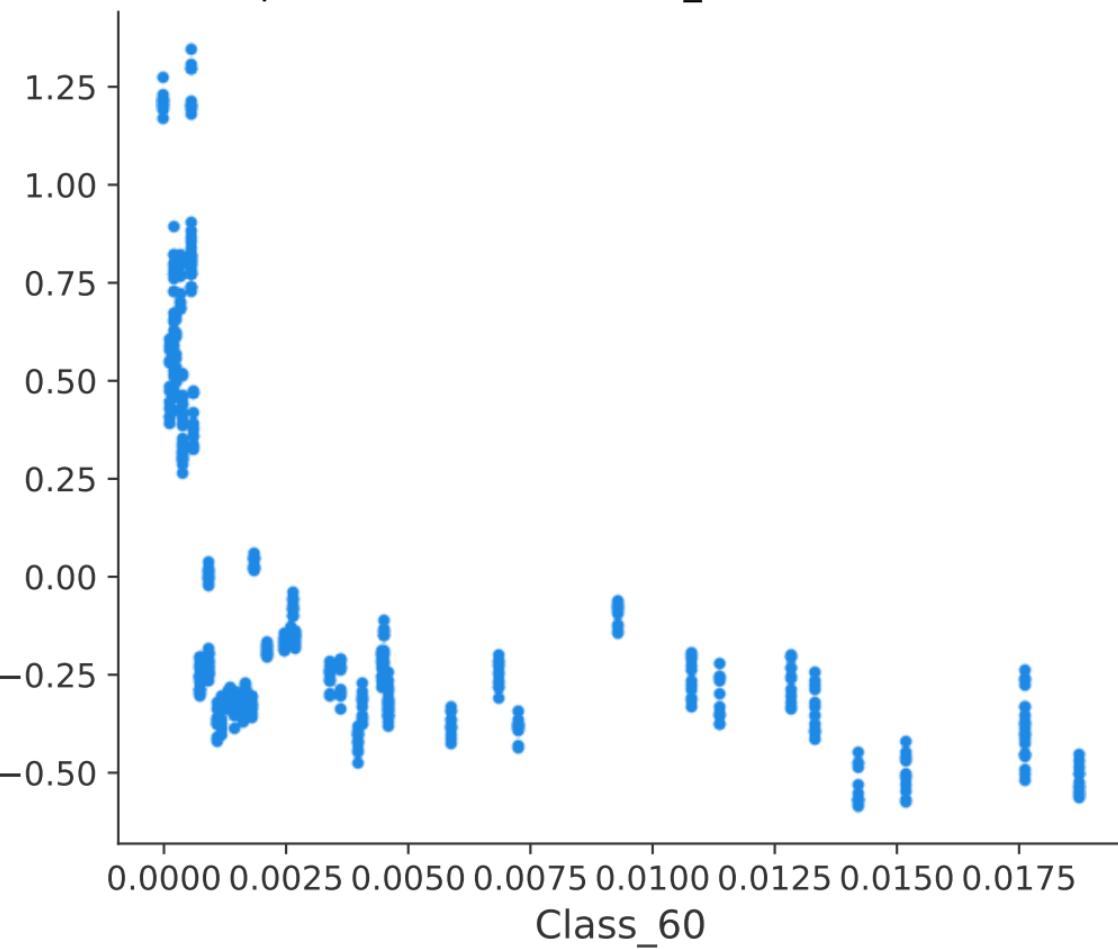
SHAP value (impact on model output)

Feature value



SHAP Dependence Plot for Class_60, Class 0 - Kalimantan

SHAP value for
Class_60



SHAP Dependence Plot for Class_60, Class 1 - Kalimantan

SHAP value for
Class_60

0.06

0.04

0.02

0.00

-0.02

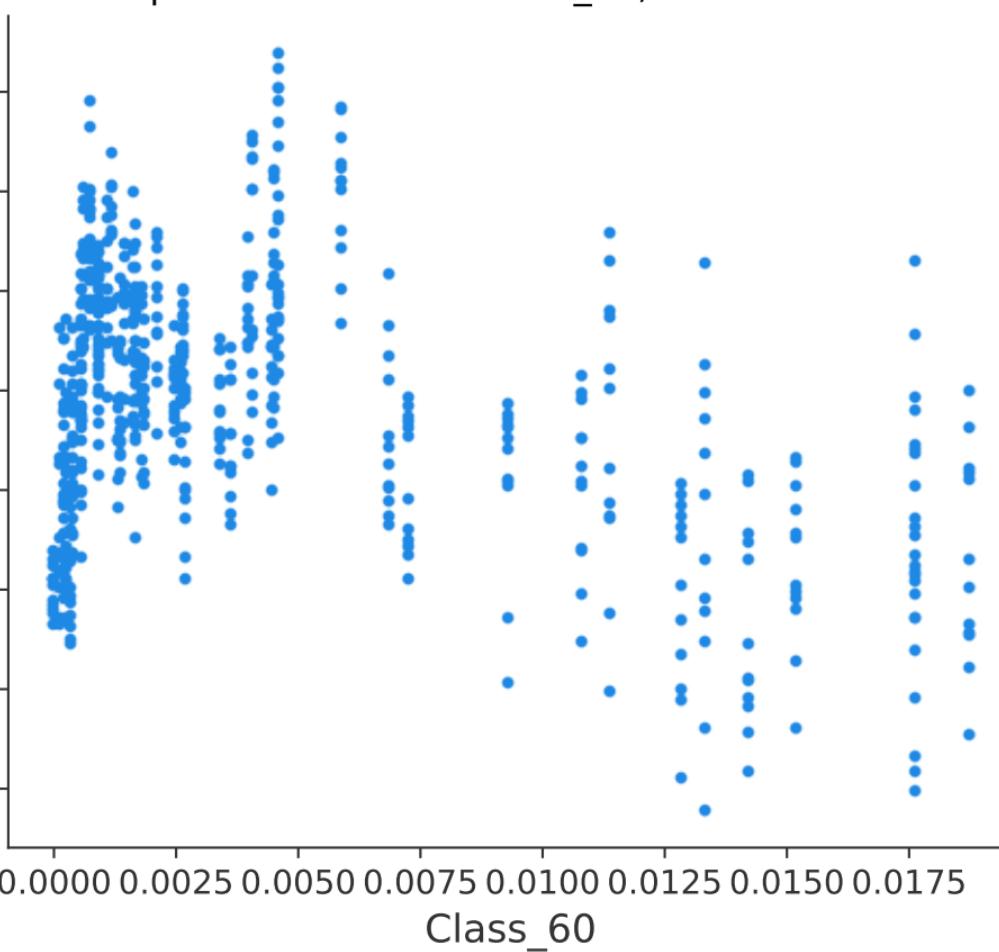
-0.04

-0.06

-0.08

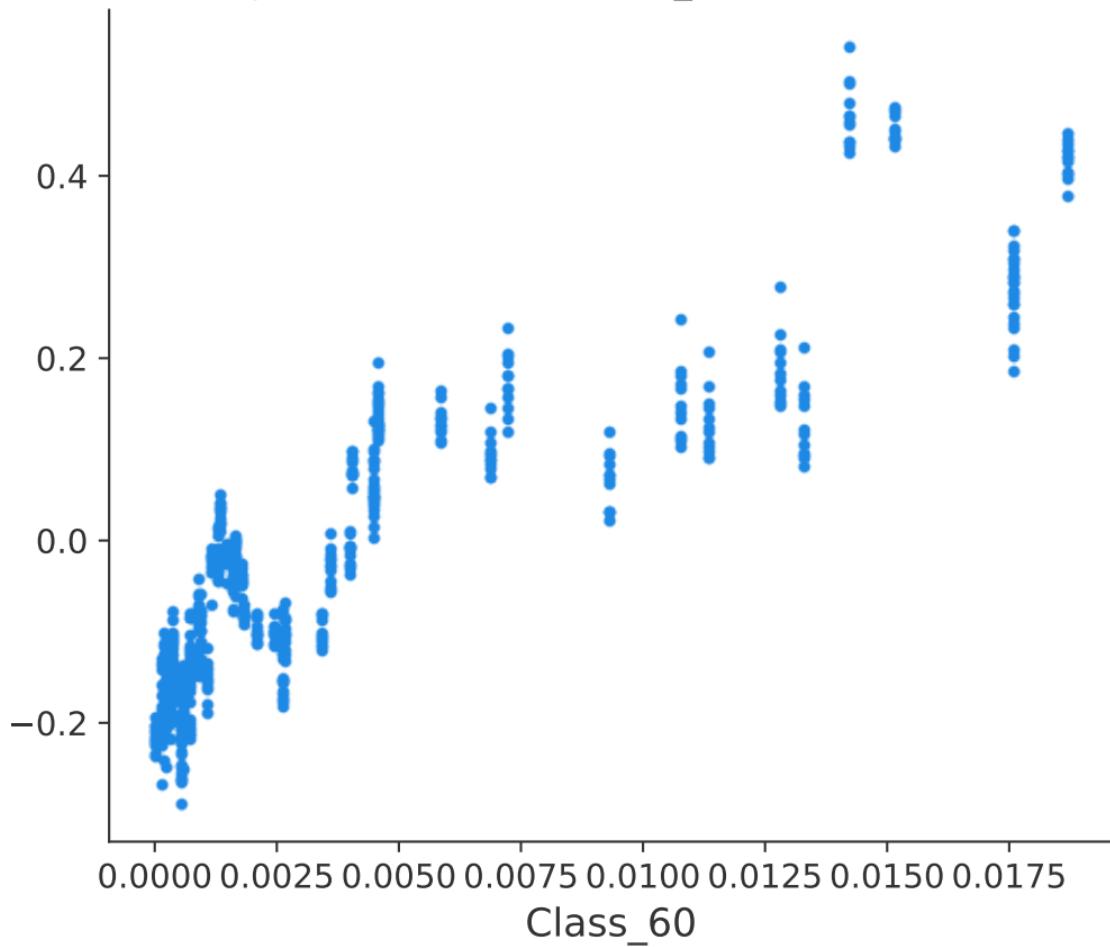
0.0000 0.0025 0.0050 0.0075 0.0100 0.0125 0.0150 0.0175

Class_60



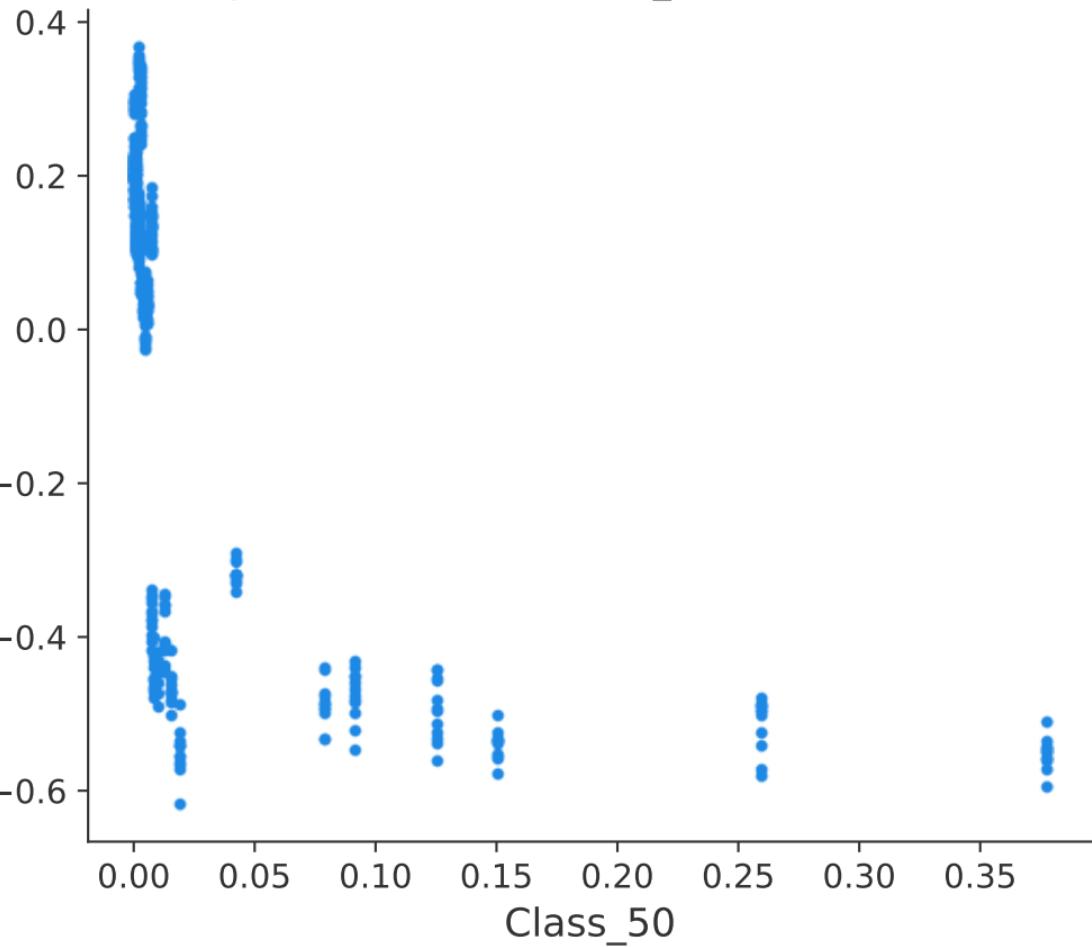
SHAP Dependence Plot for Class_60, Class 2 - Kalimantan

SHAP value for
Class_60

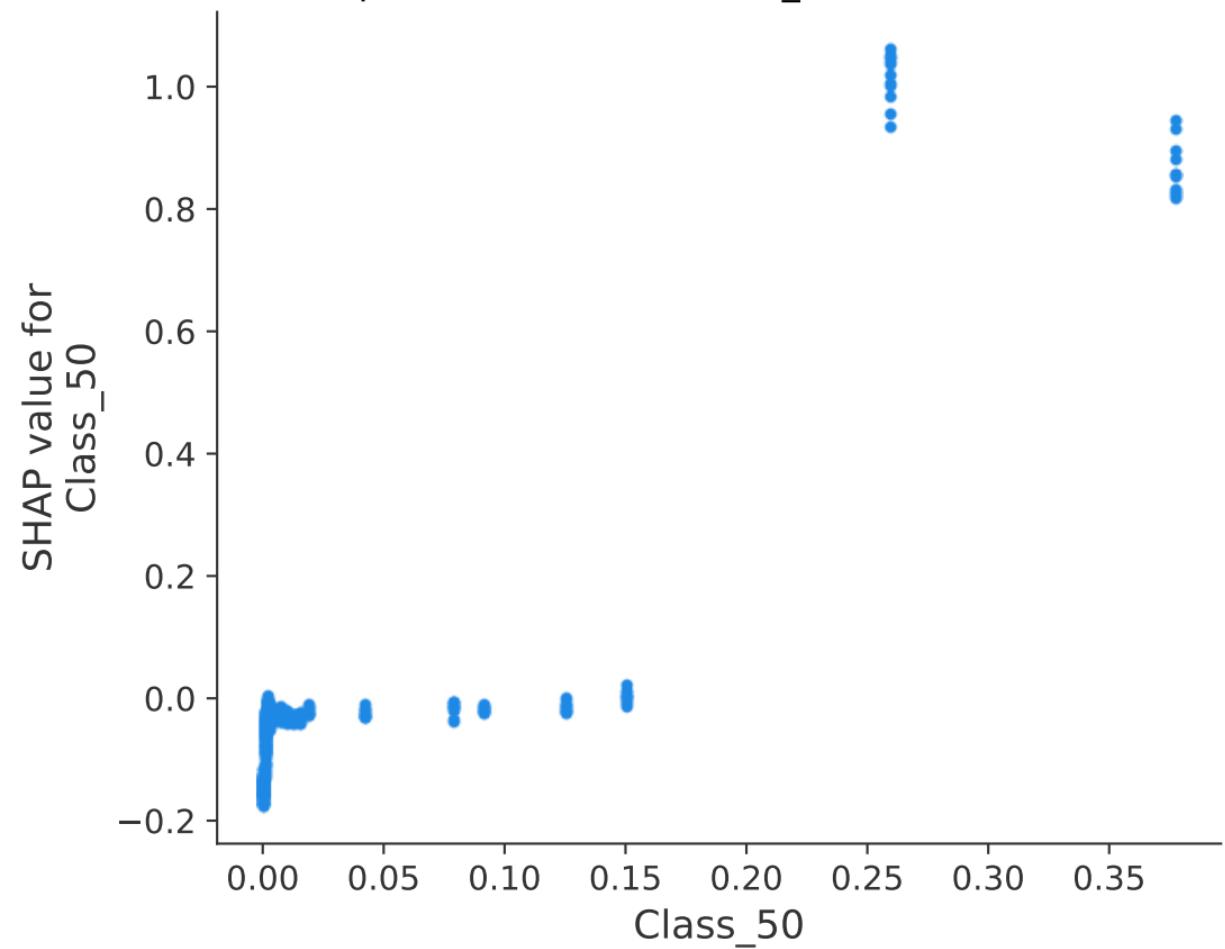


SHAP Dependence Plot for Class_50, Class 0 - Kalimantan

SHAP value for
Class_50

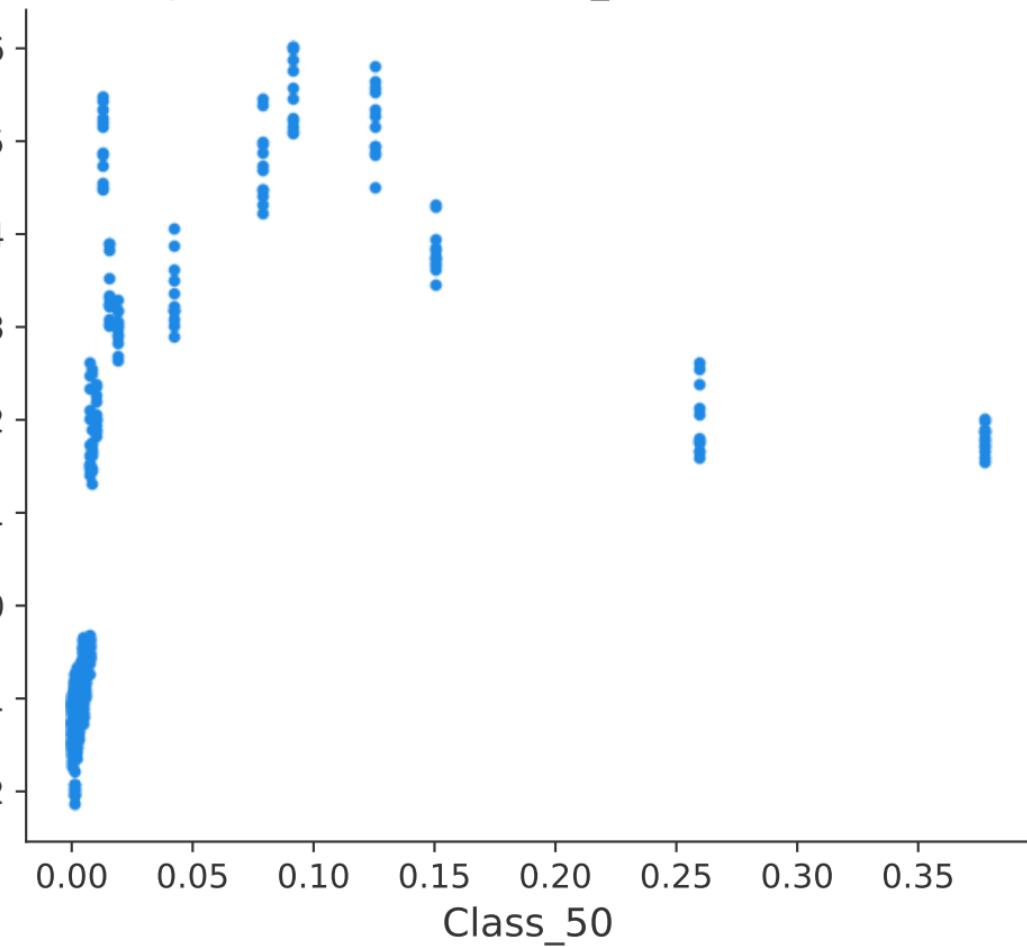


SHAP Dependence Plot for Class_50, Class 1 - Kalimantan



SHAP Dependence Plot for Class_50, Class 2 - Kalimantan

SHAP value for
Class_50



SHAP Dependence Plot for Class_40, Class 0 - Kalimantan

SHAP value for
Class_40

0.2

0.1

0.0

-0.1

-0.2

0.00

0.05

0.10

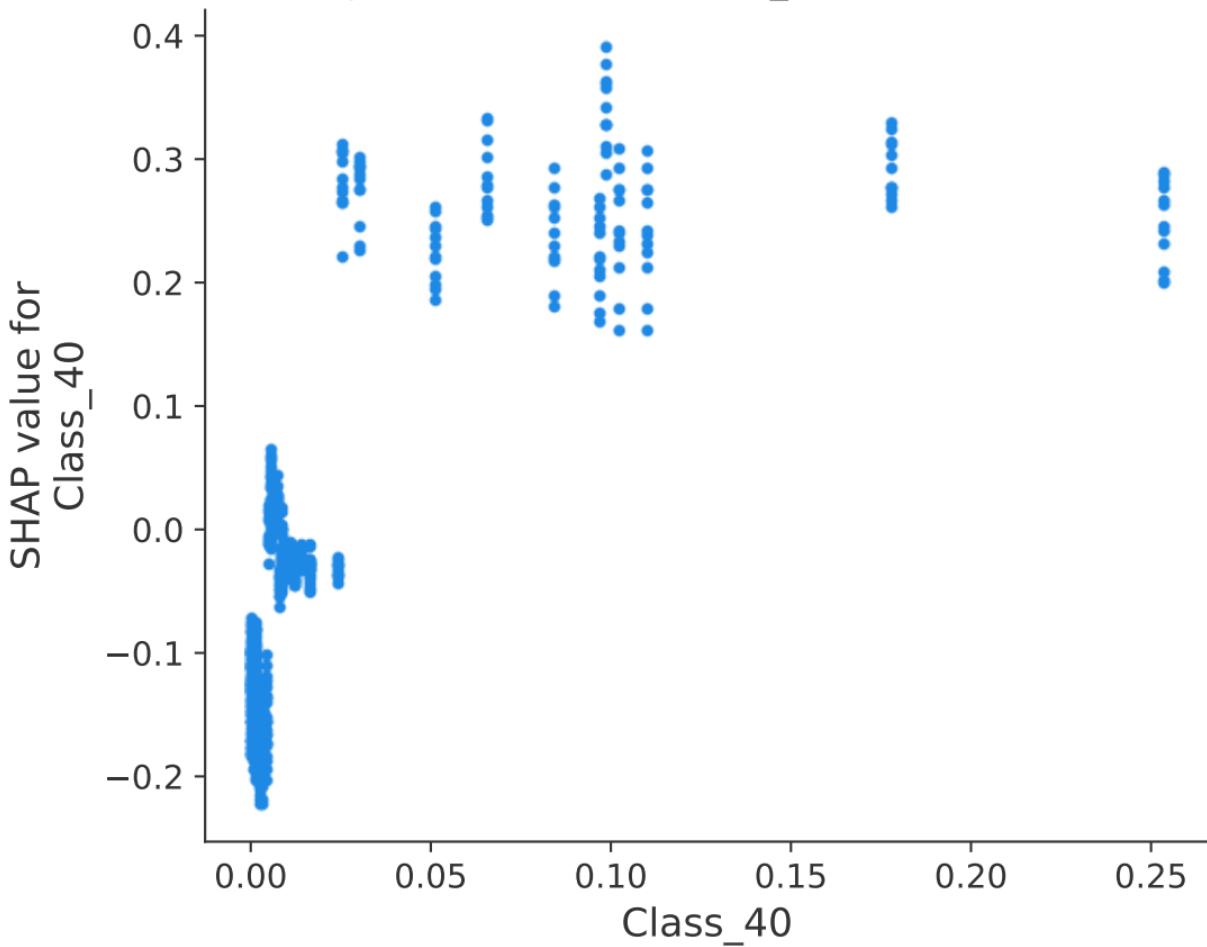
0.15

0.20

0.25

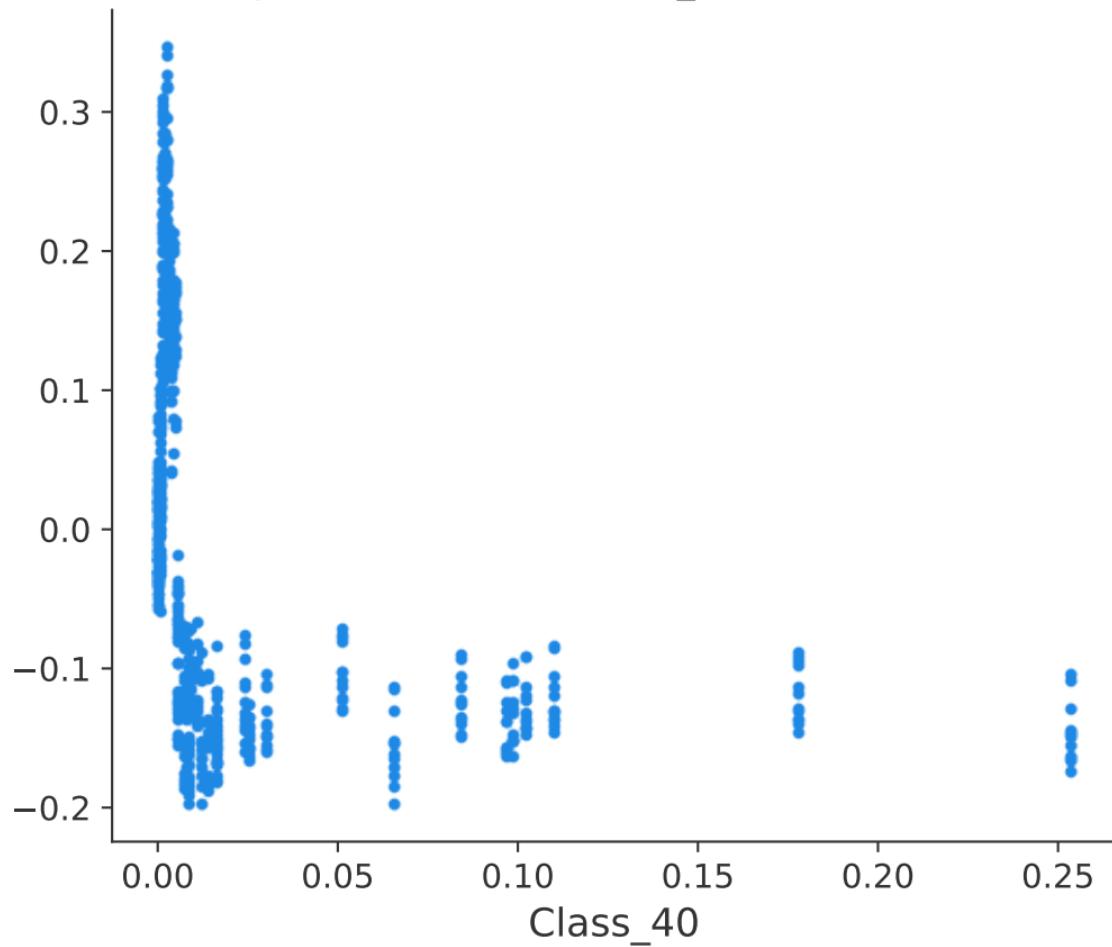
Class_40

SHAP Dependence Plot for Class_40, Class 1 - Kalimantan

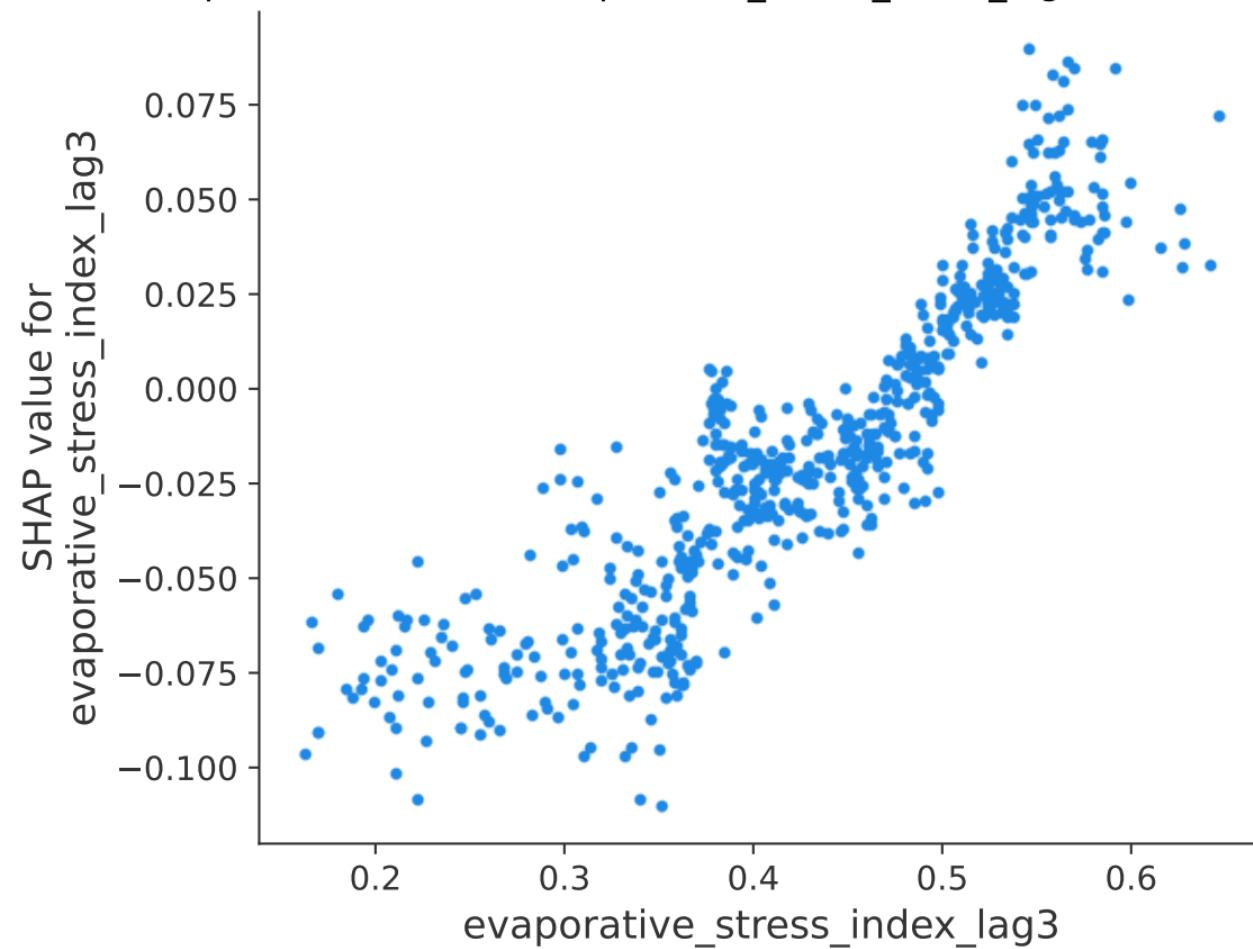


SHAP Dependence Plot for Class_40, Class 2 - Kalimantan

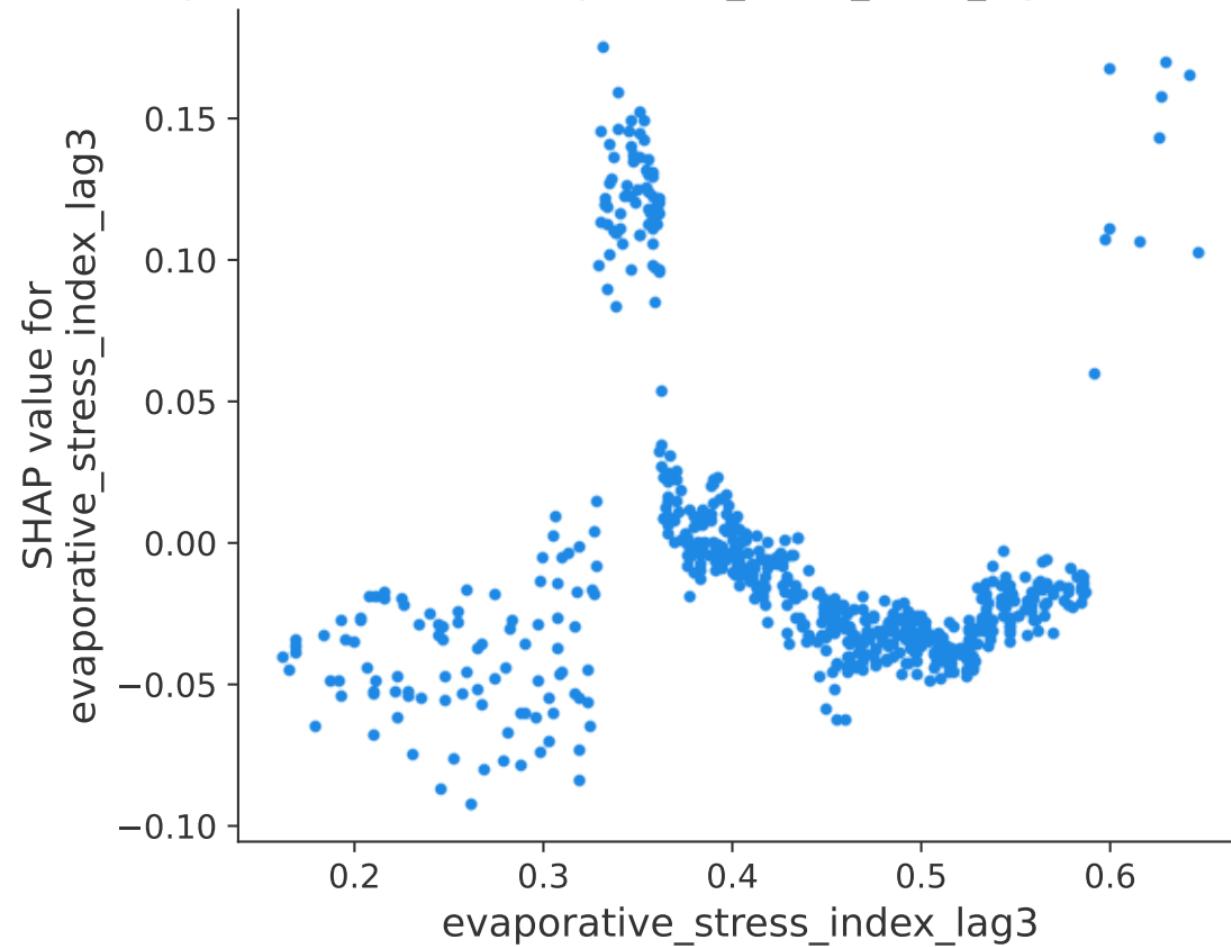
SHAP value for
Class_40



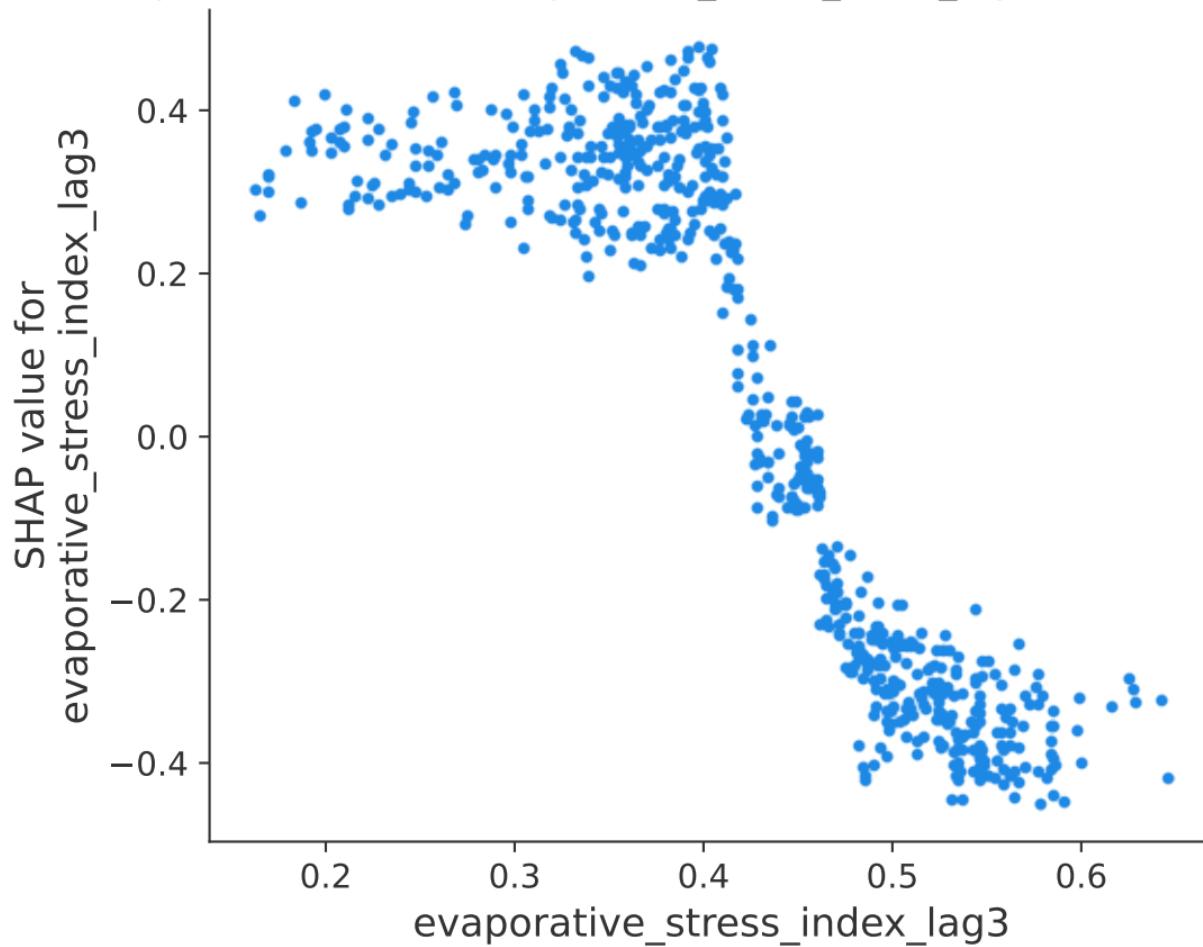
SHAP Dependence Plot for evaporative_stress_index_lag3, Class 0 - Kalimantan



SHAP Dependence Plot for evaporative_stress_index_lag3, Class 1 - Kalimantan

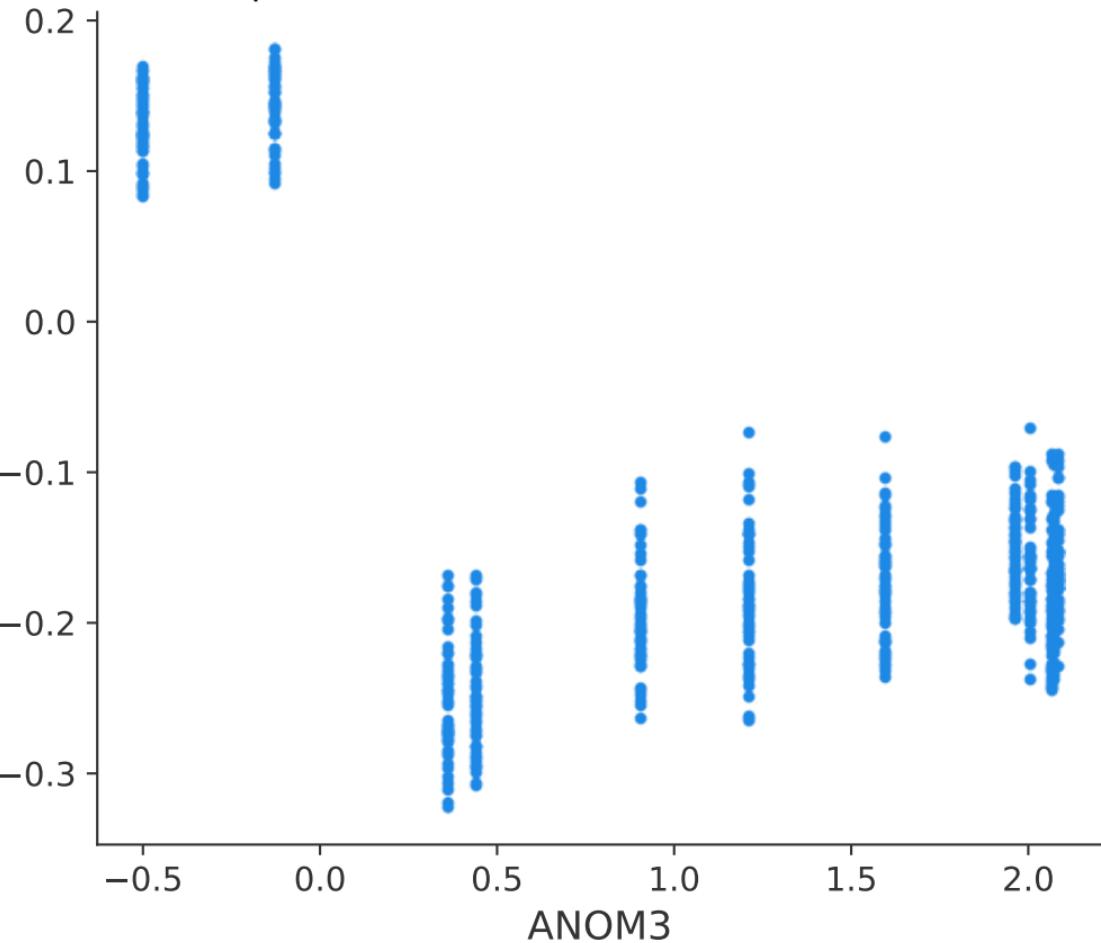


SHAP Dependence Plot for evaporative_stress_index_lag3, Class 2 - Kalimantan



SHAP Dependence Plot for ANOM3, Class 0 - Kalimantan

SHAP value for
ANOM3



SHAP Dependence Plot for ANOM3, Class 1 - Kalimantan

SHAP value for
ANOM3

0.03

0.02

0.01

0.00

-0.01

-0.02

-0.03

-0.04

-0.05

-0.5

0.0

0.5

1.0

1.5

2.0

ANOM3

SHAP Dependence Plot for ANOM3, Class 2 - Kalimantan

SHAP value for
ANOM3

