TF test report 2.6

Test time: 20.06.2023

Model name: adm_2_6 (No threshold. follows anomalies. value limits 1/0 applied. Normalization applied.)
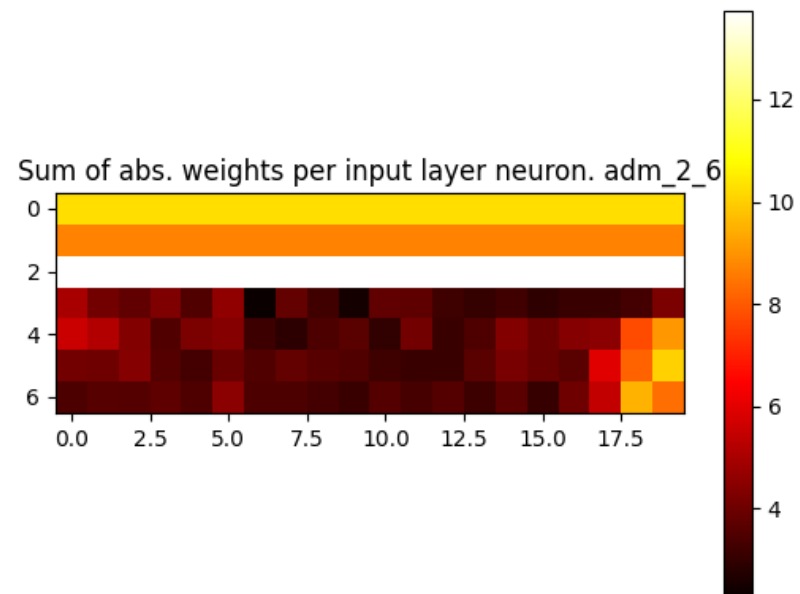
Model type: MLP

Model description: 83x32x32x32x6 MLP to detect anomalies on 3 panels based on the previous 20 points from 3 panels + 20 time points + derivatives of 3 panels. Tested on previously unseen data. Trained to detect sensor spikes, const regions and time shifts only
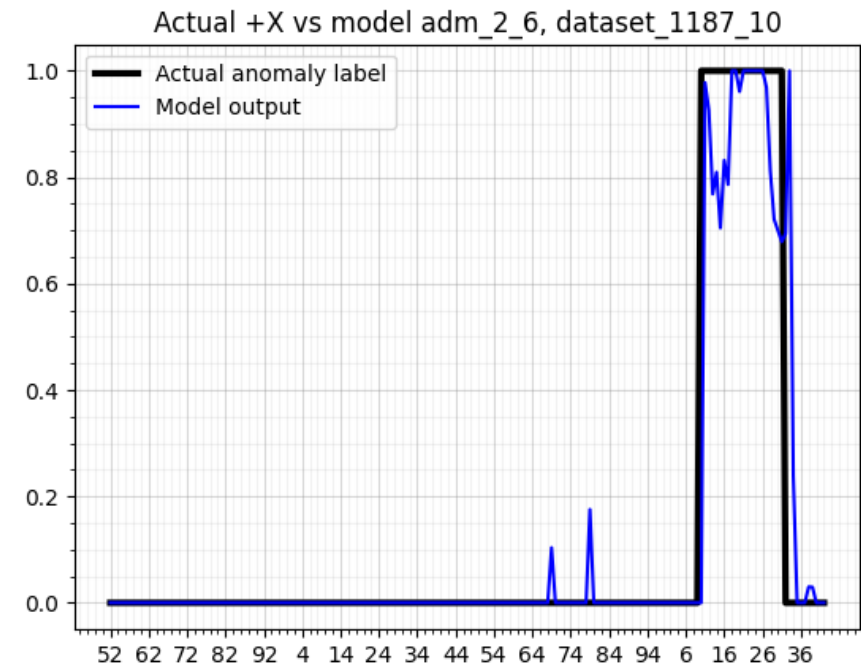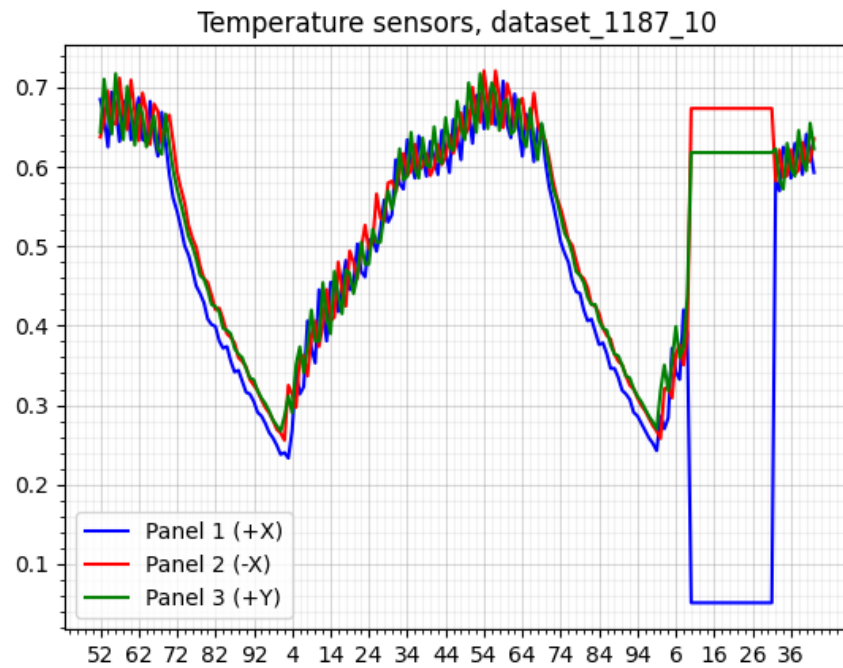
Model data size: NA

Test results:

Accuracy on NO anomalies (0): 0.9766

Accuracy on ANOMALIES (1): 0.8946

Sum of abs. weights per input layer neuron. adm_2_6

localhost:63342/Thesis_sat_ML/other_codes/4_Anomaly_detect_mod_2/4_2_Test model/TF_test_report/test_report_2.6.html?_ijt=ojennn617jpjsdsm8c4i3v3t98

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Temperature sensors, dataset_1187_10
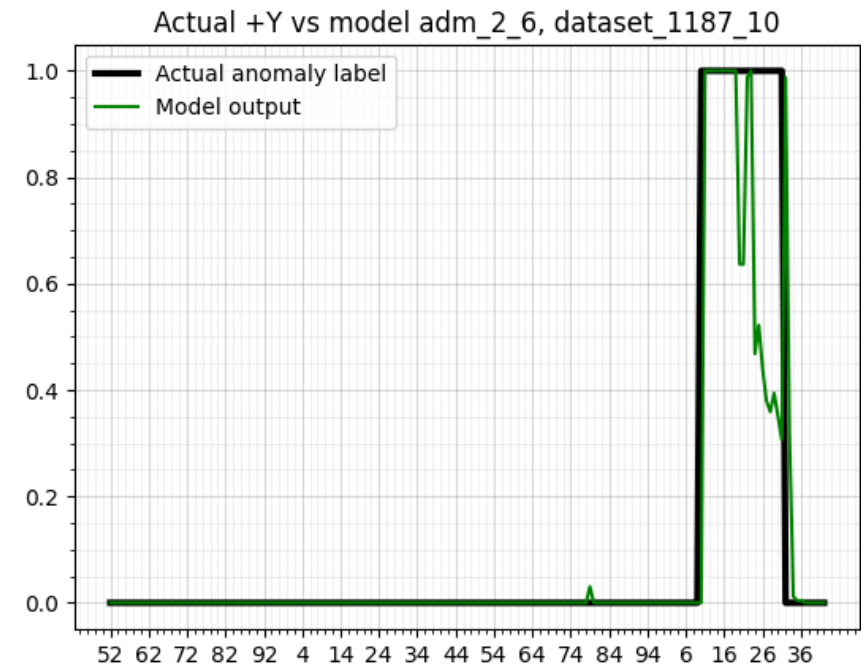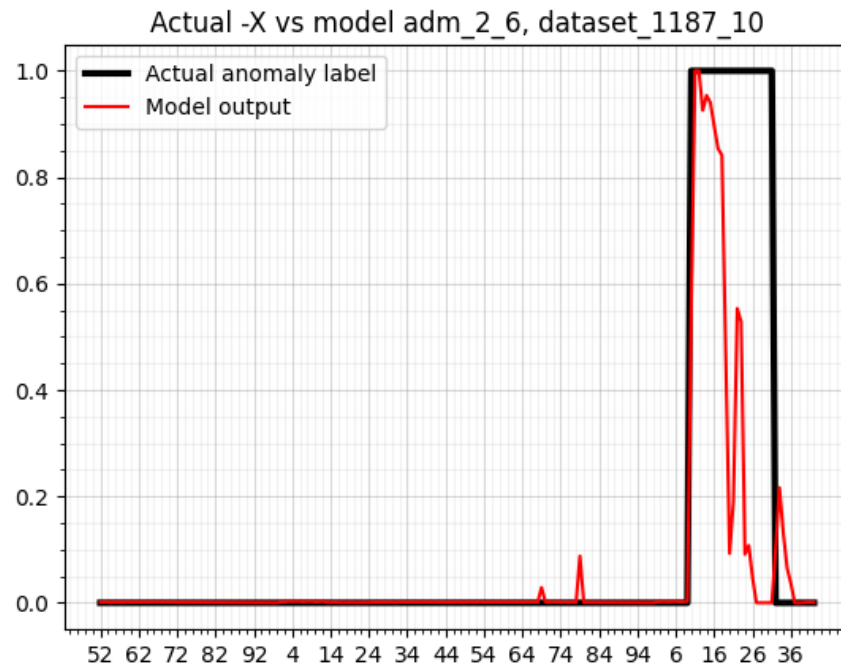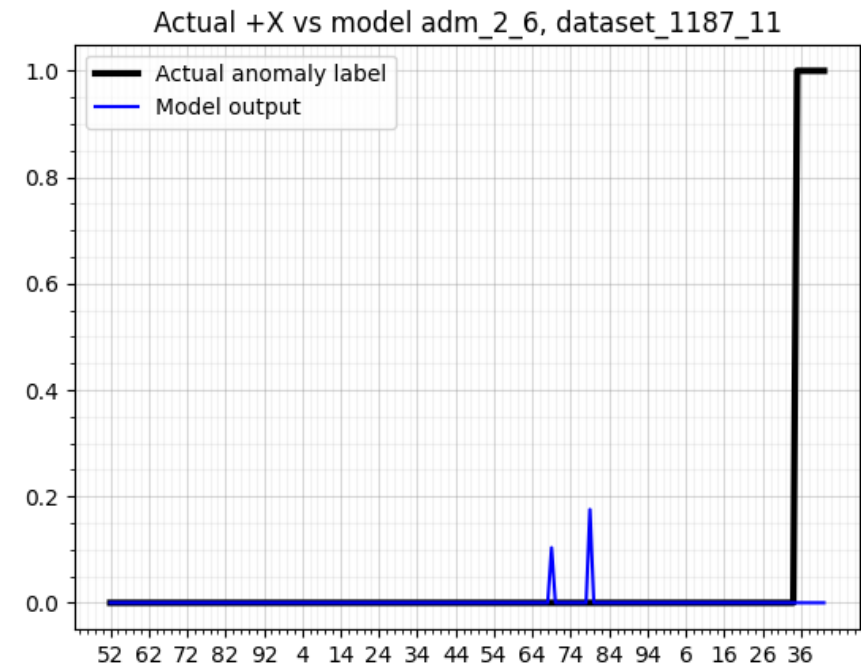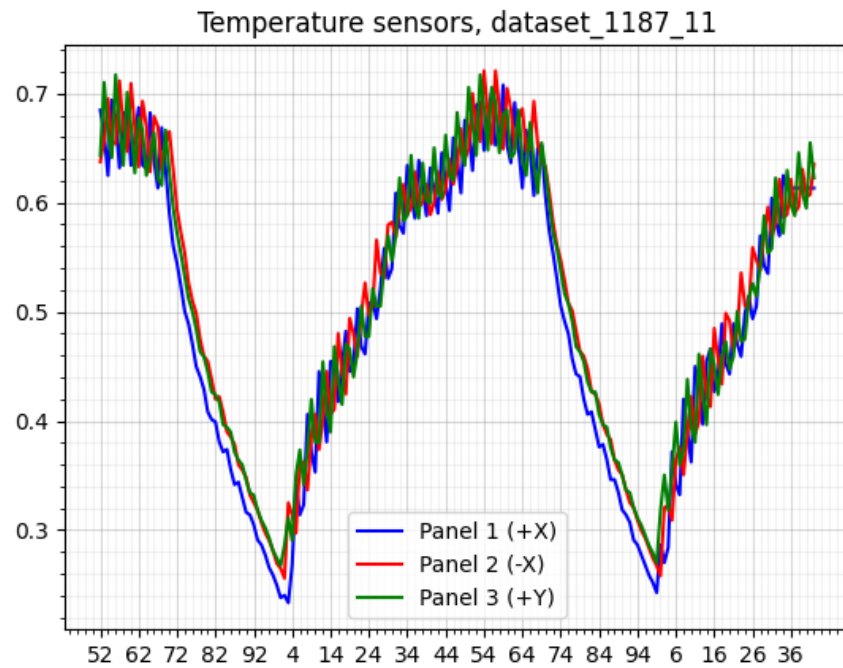

Actual +X vs model adm_2_6, dataset_1187_10

Figure 1: model inferences on dataset_1187_10_sens.png

Temperature sensors, dataset_1187_11
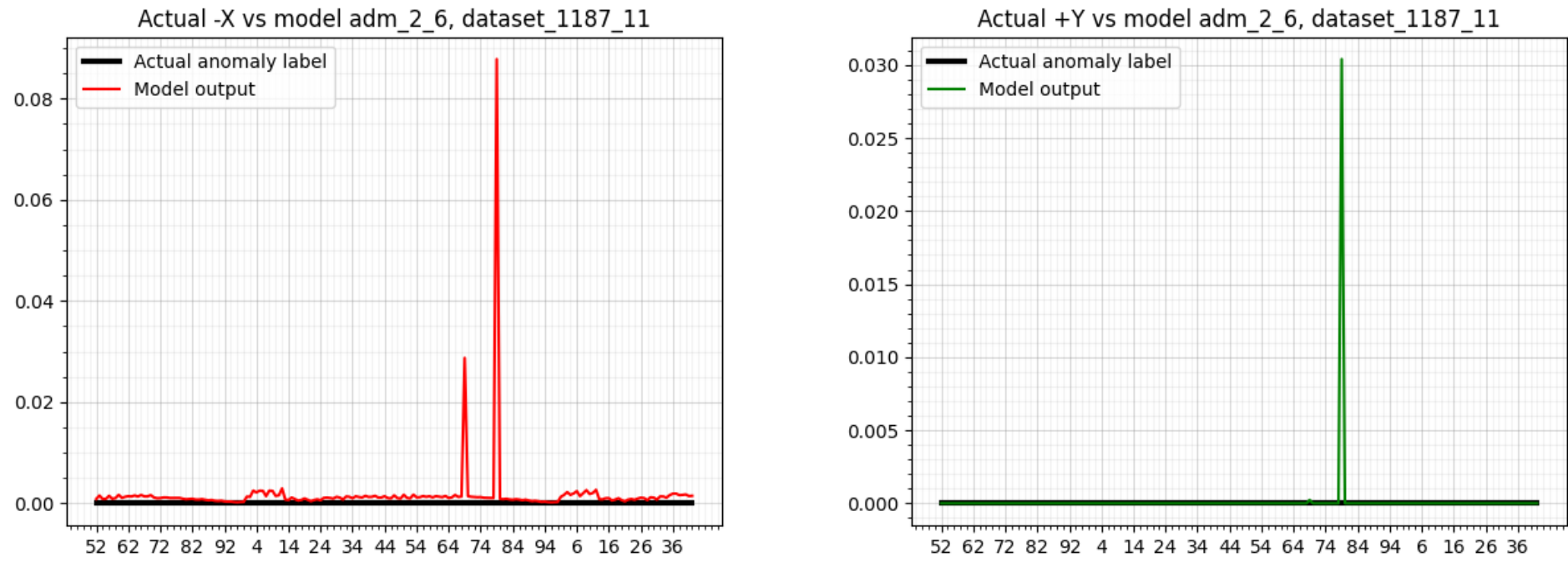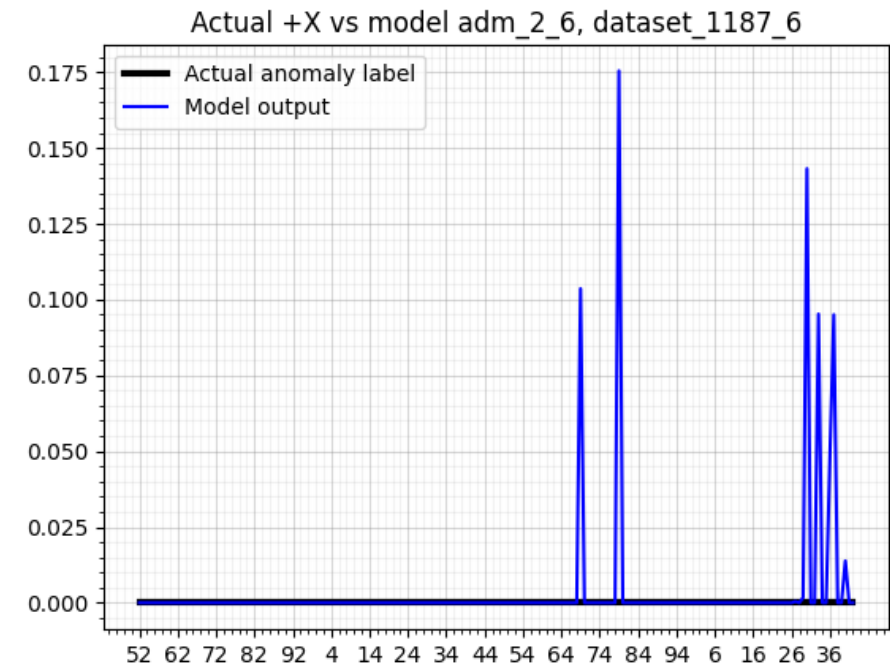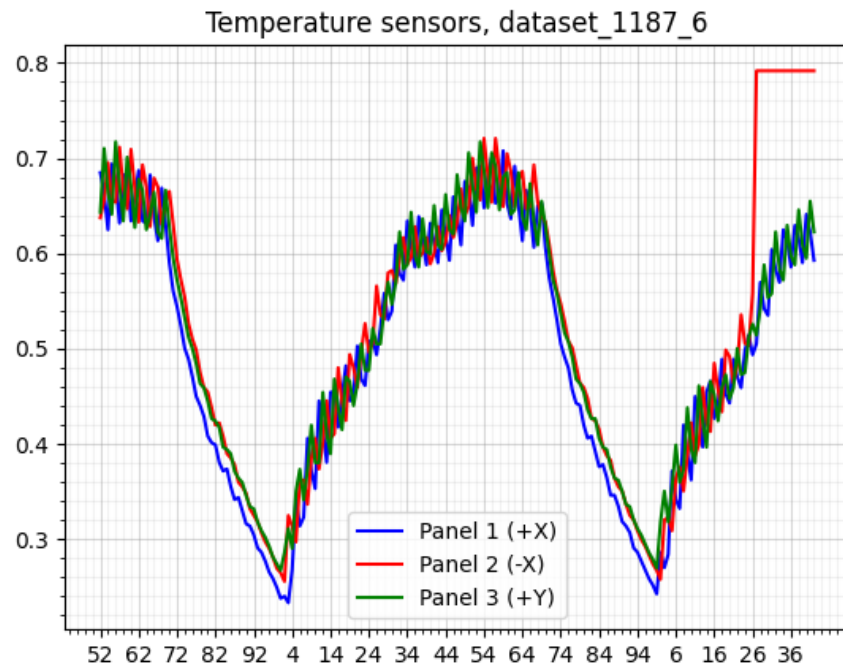
Actual +X vs model adm_2_6, dataset_1187_11

Figure 2: model inferences on dataset_1187_11_sens.png

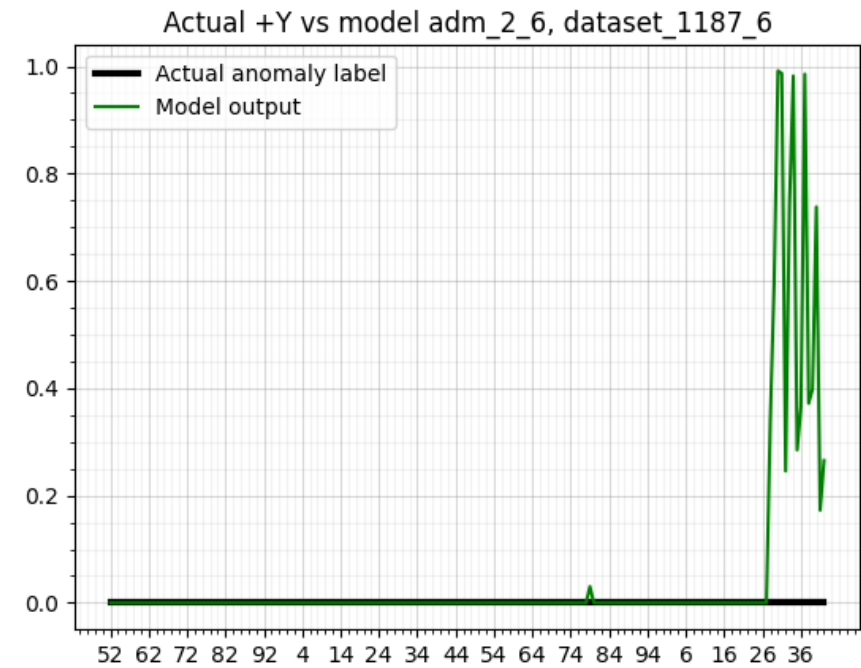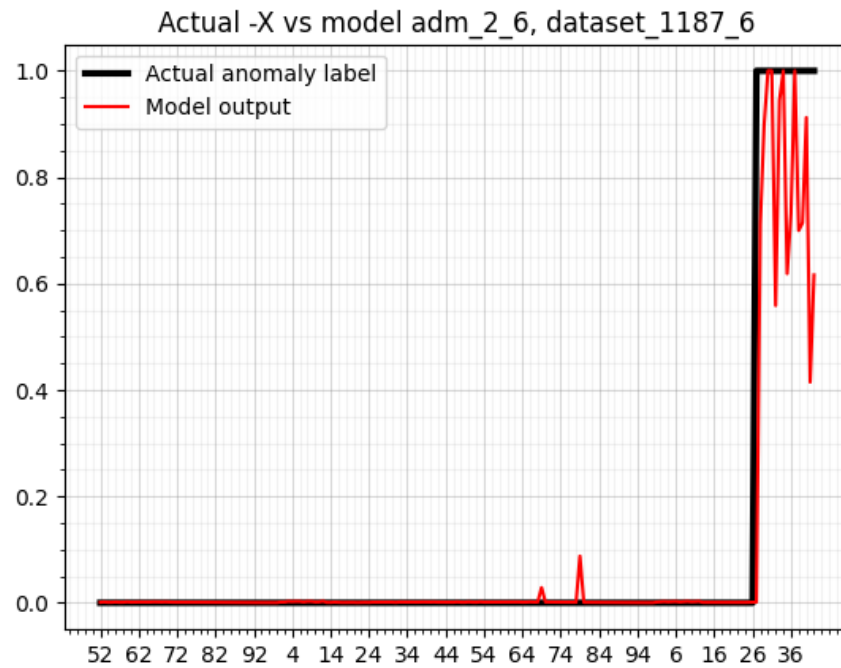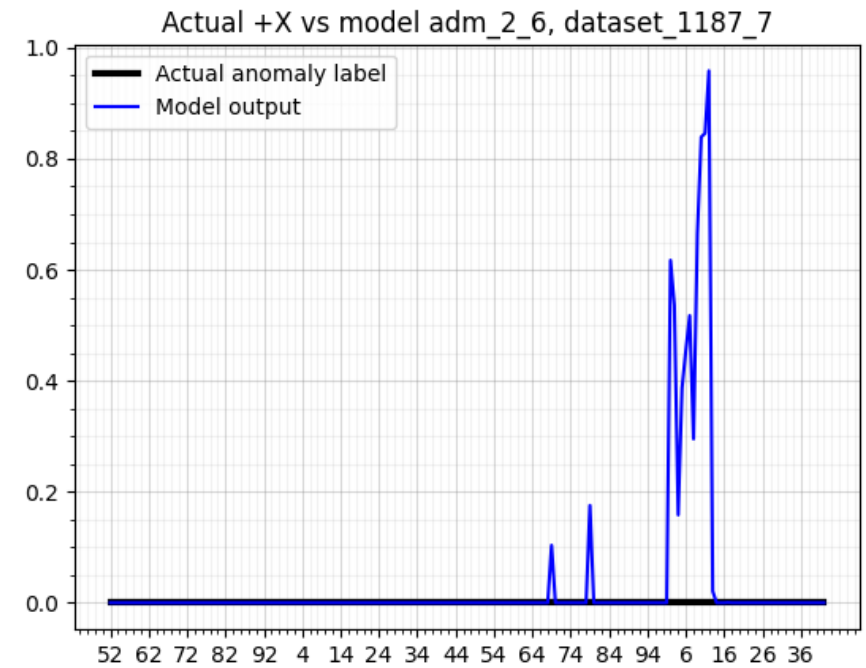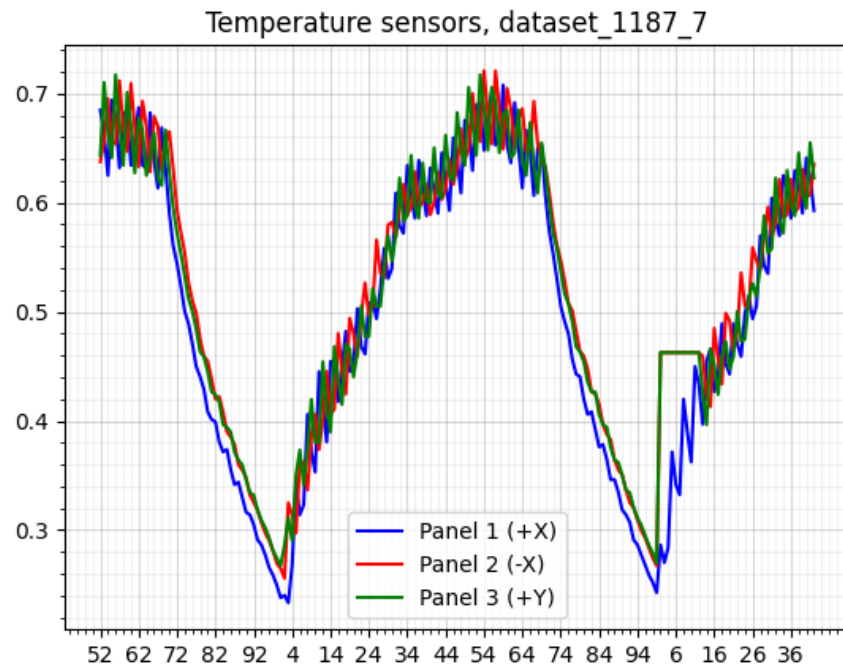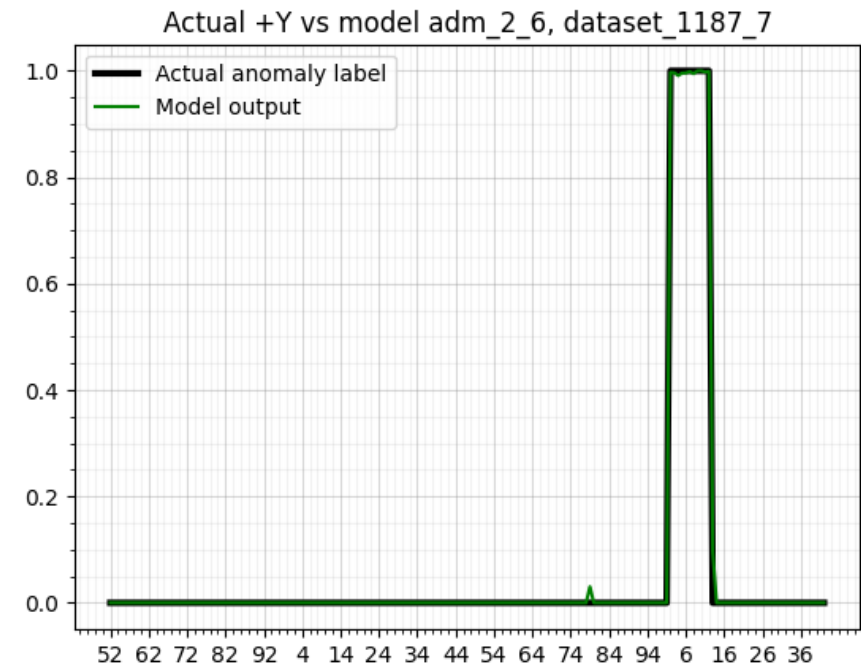Temperature sensors, dataset_1187_6
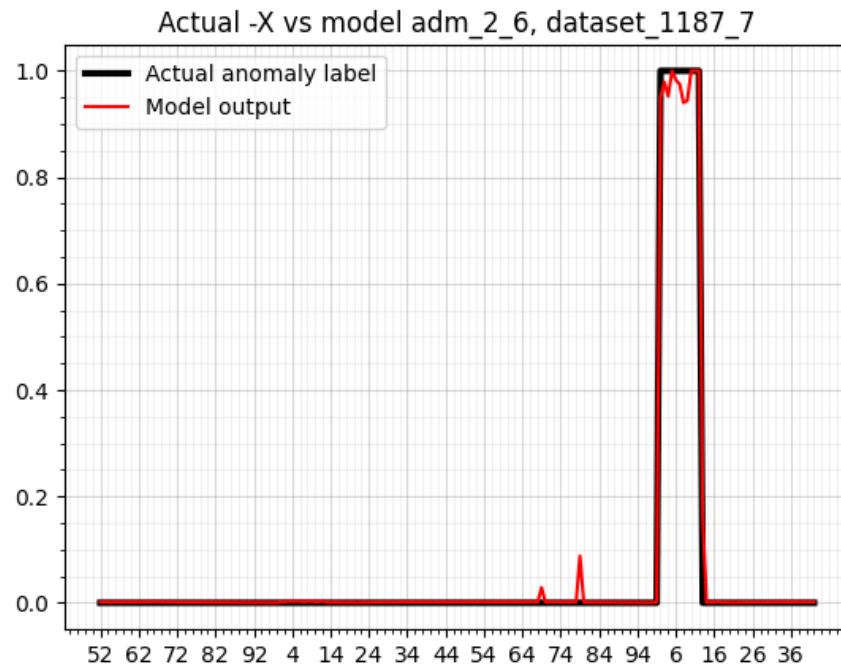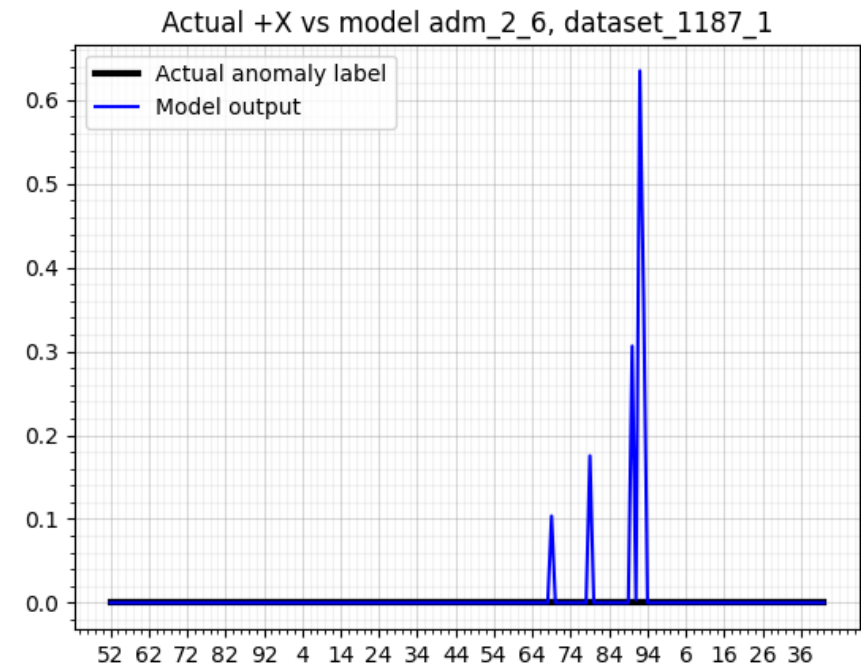
Actual +X vs model adm_2_6, dataset_1187_6

Figure 3: model inferences on dataset_1187_6_sens.png

Temperature sensors, dataset_1187_7

Actual +X vs model adm_2_6, dataset_1187_7

Actual -X vs model adm_2_6, dataset_1187_7
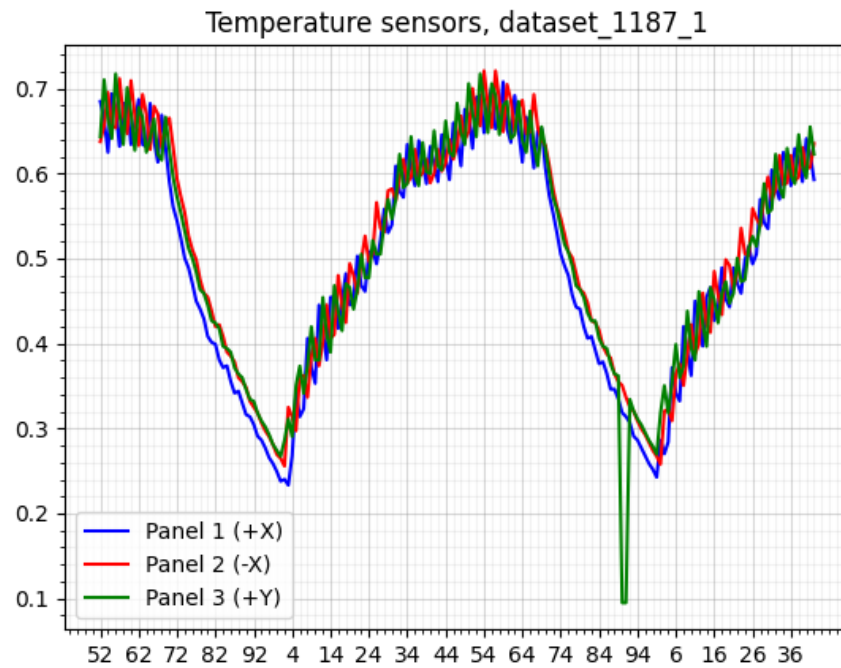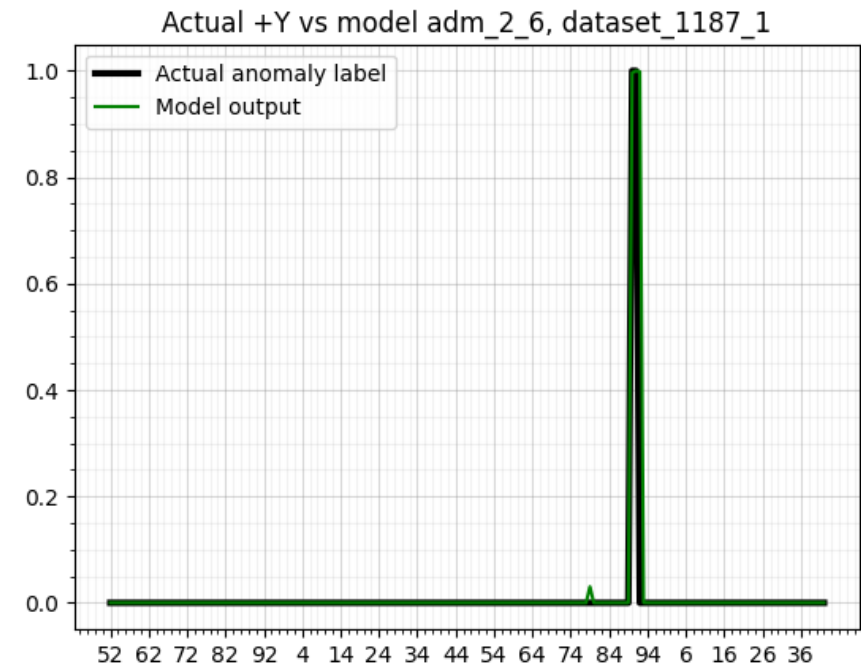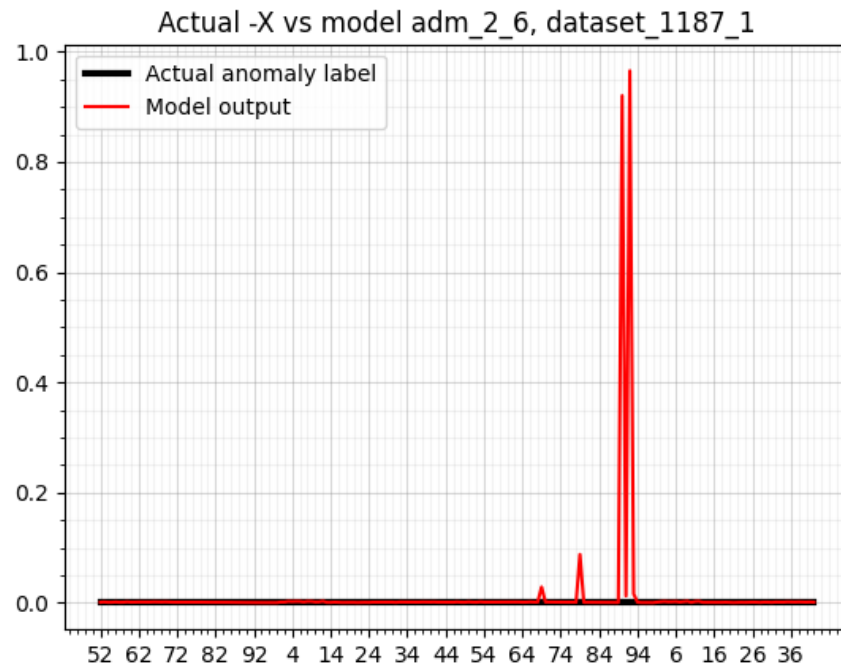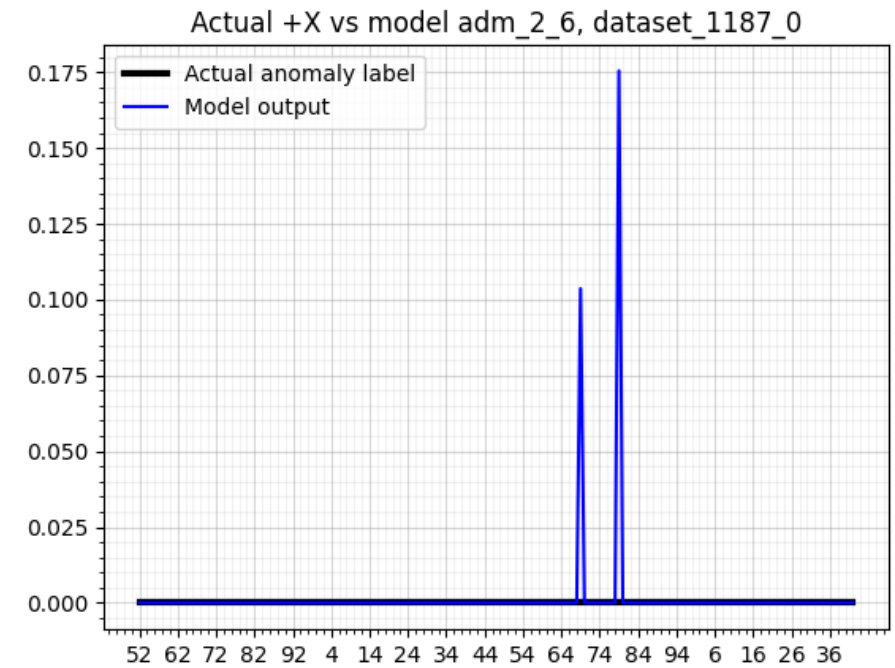

Actual +Y vs model adm_2_6, dataset_1187_7
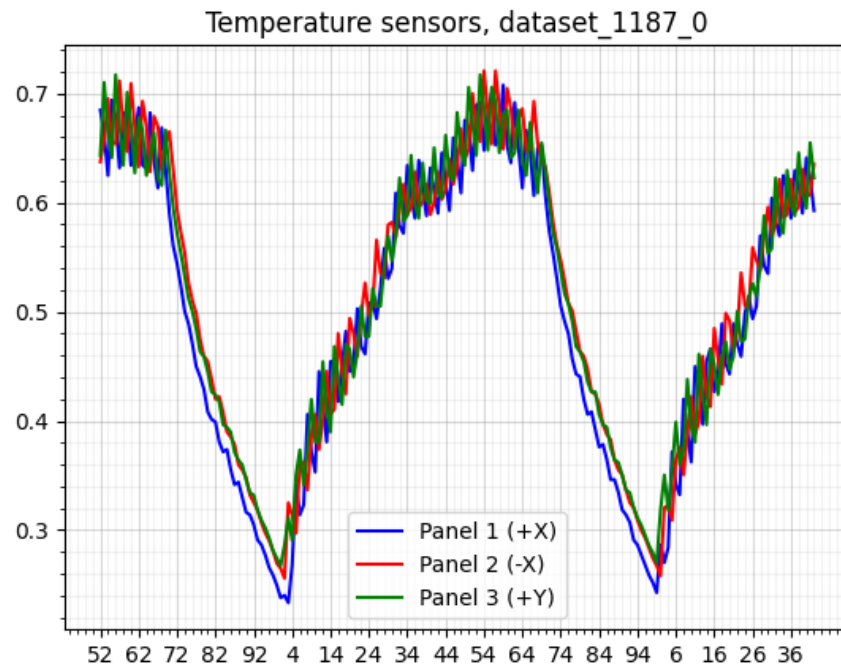

Figure 4: model inferences on dataset_1187_7_sens.png

localhost:63342/Thesis_sat_ML/other_codes/4_Anomaly_detect_mod_2/4_2_Test model/TF_test_report/test_report_2.6.html?_ijt=ojennn617jpjsdsm8c4i3v3t98

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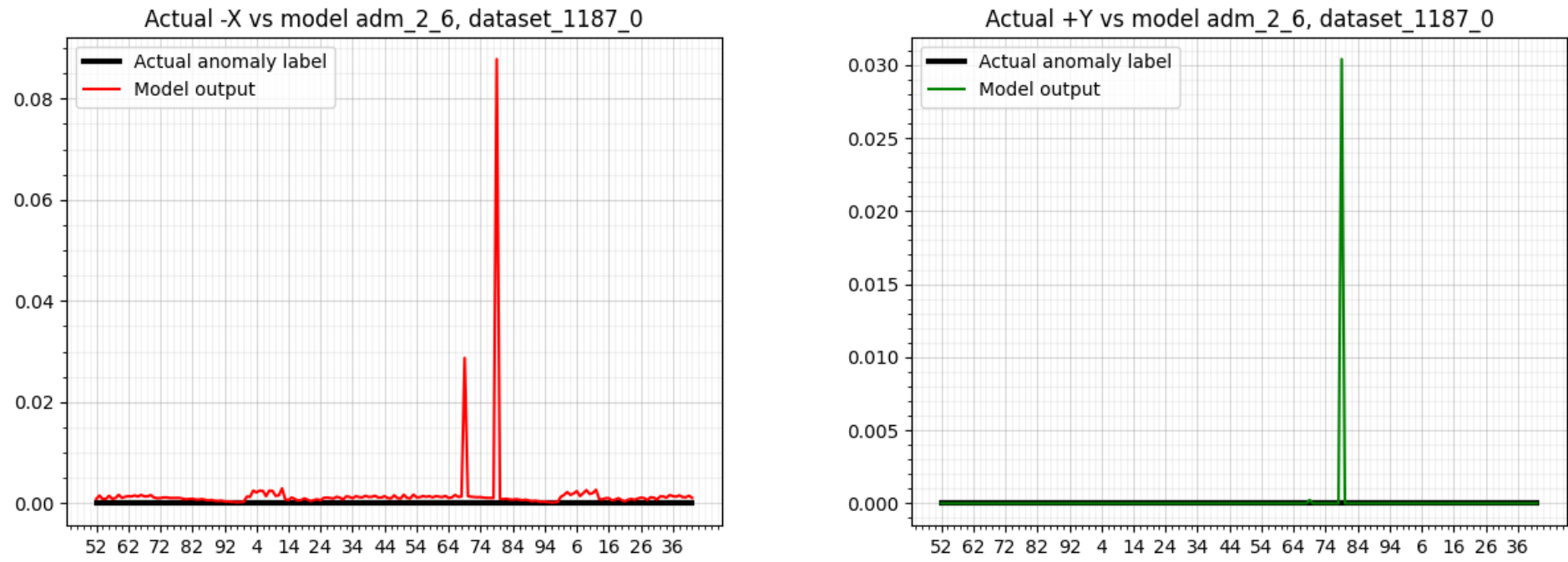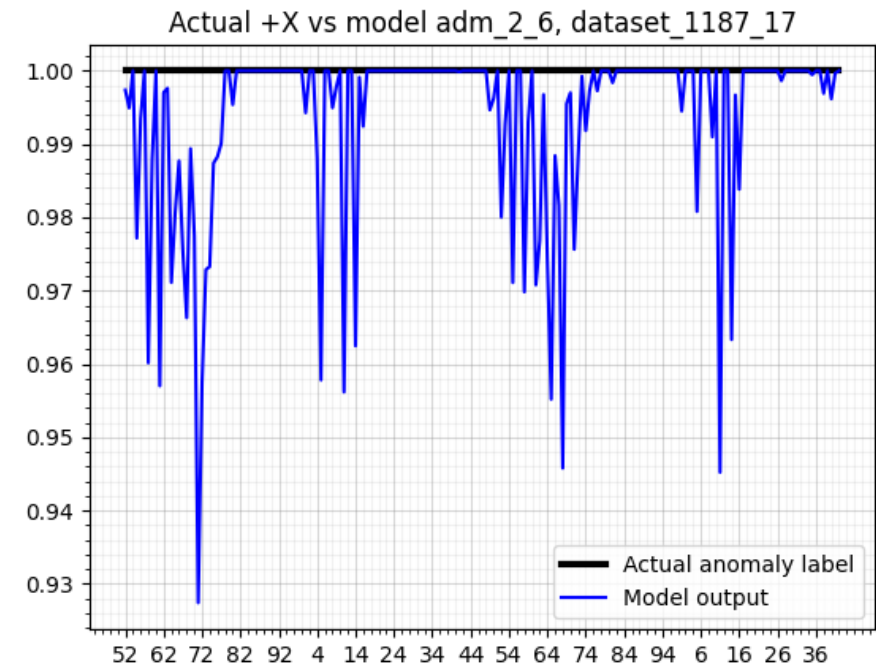## Temperature sensors, dataset_1187_1
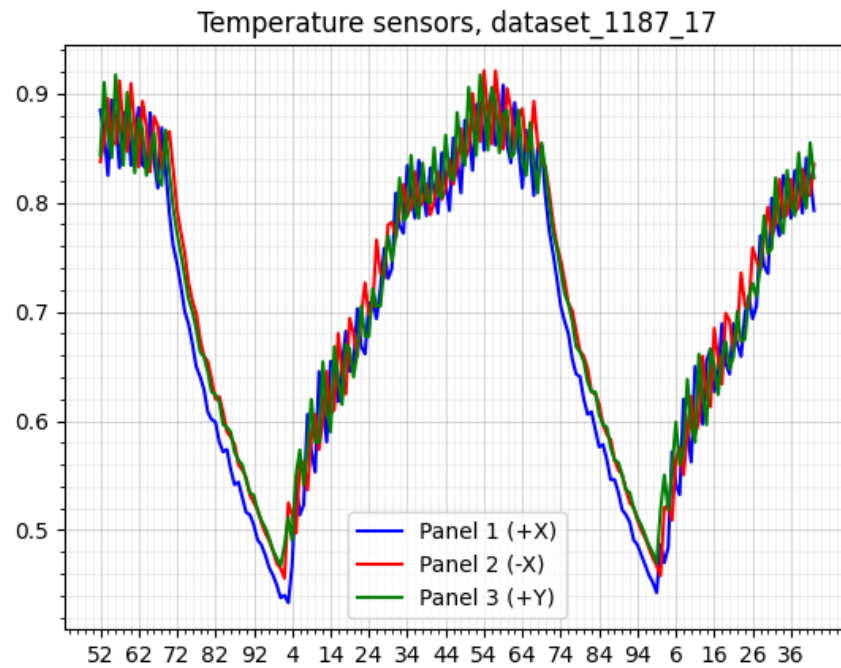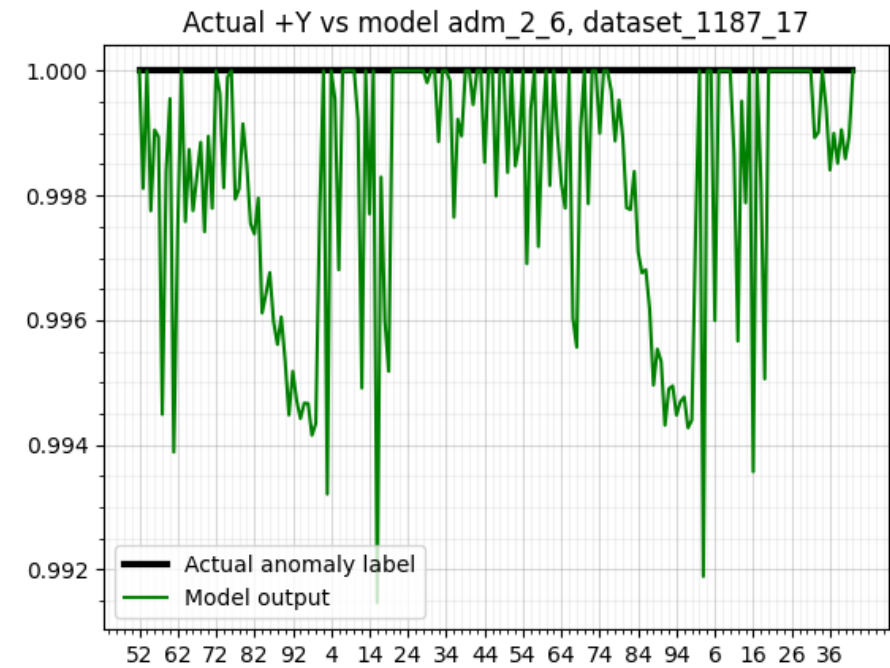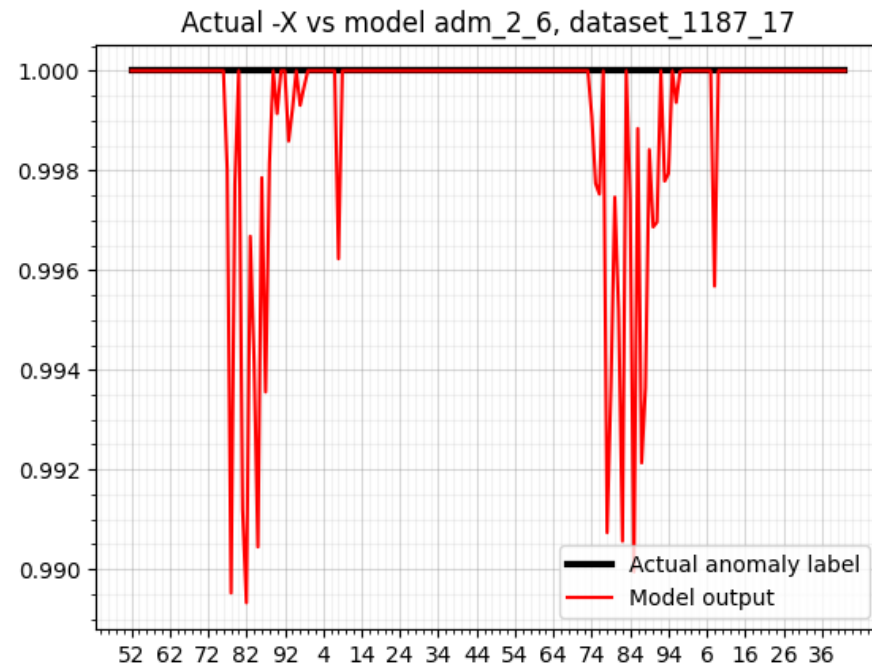

Actual +X vs model adm_2_6, dataset_1187_1

Figure 5: model inferences on dataset_1187_1_sens.png

Temperature sensors, dataset_1187_0

Actual +X vs model adm_2_6, dataset_1187_0

localhost:63342/Thesis_sat_ML/other_codes/4_Anomaly_detect_mod_2/4_2_Test model/TF_test_report/test_report_2.6.html?_ijt=ojennn617jpjsdsm8c4i3v3t98

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Figure 6: model inferences on dataset_1187_0_sens.png
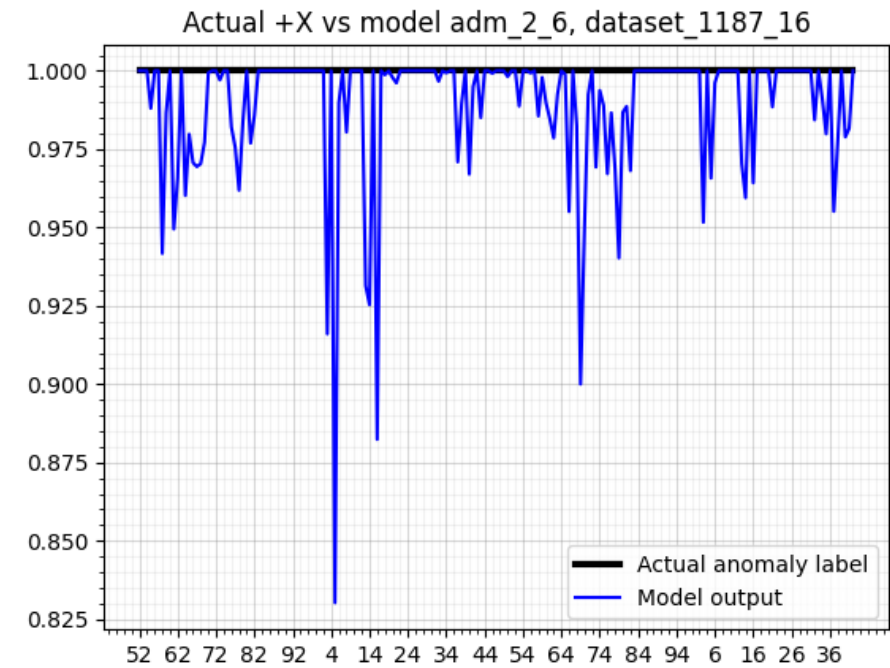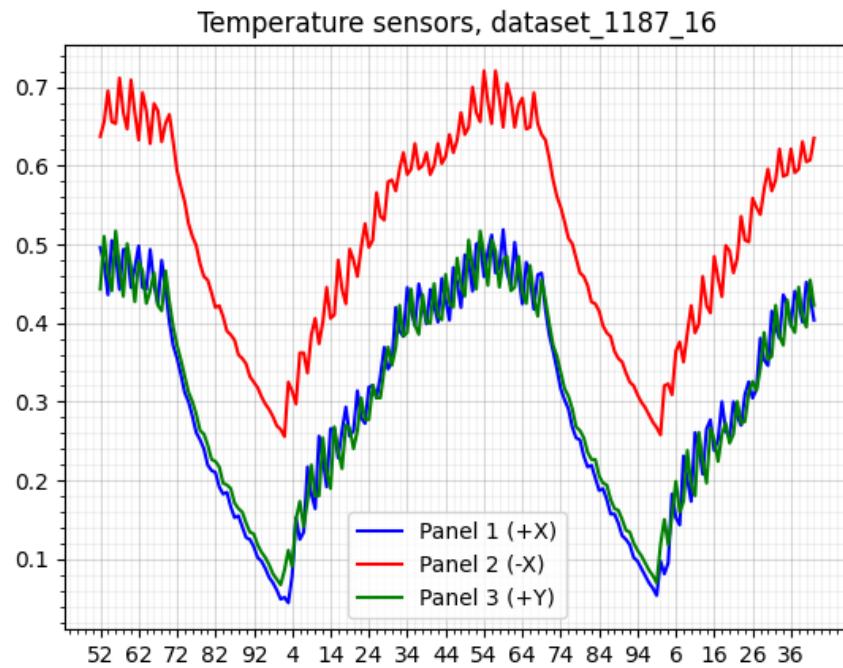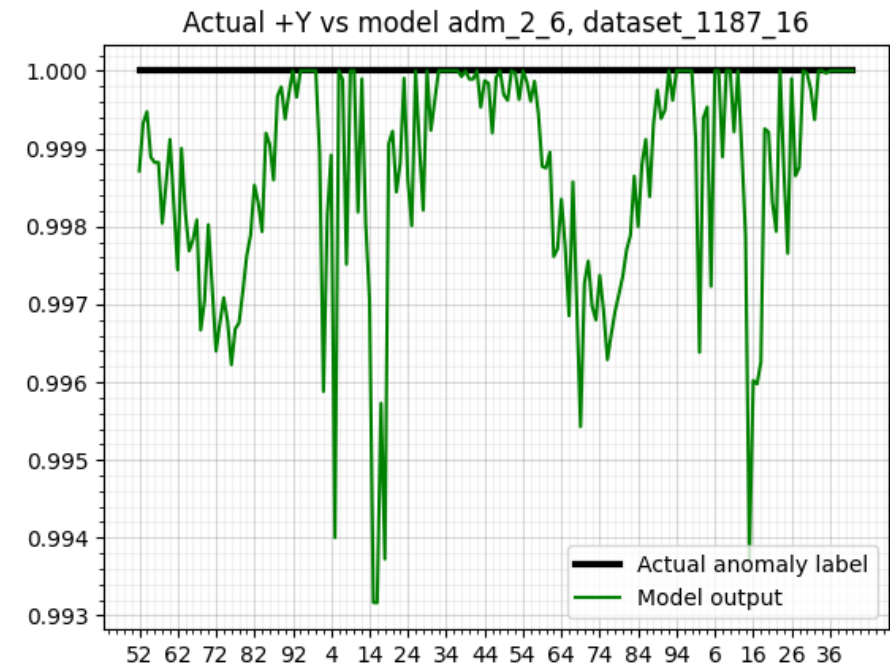
Temperature sensors, dataset_1187_17
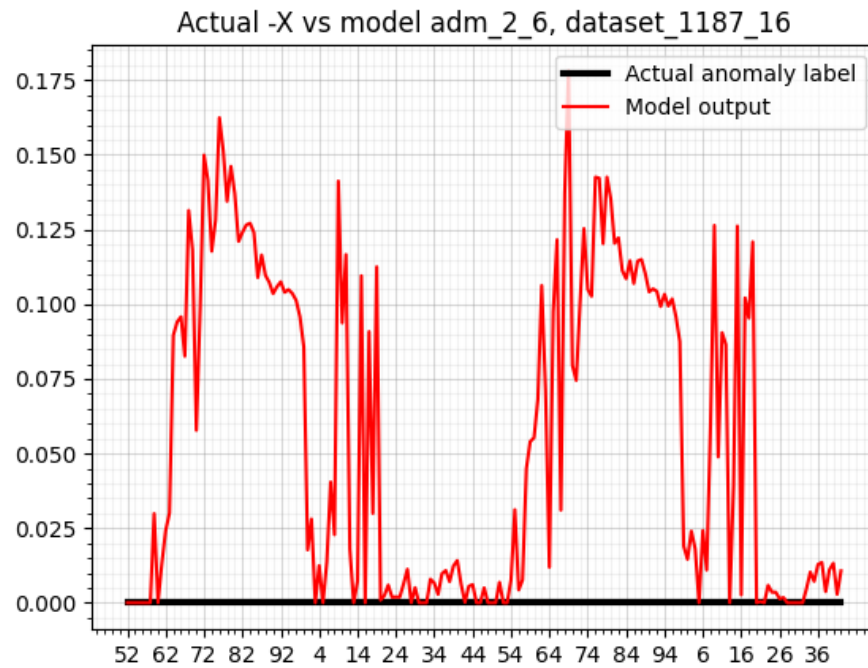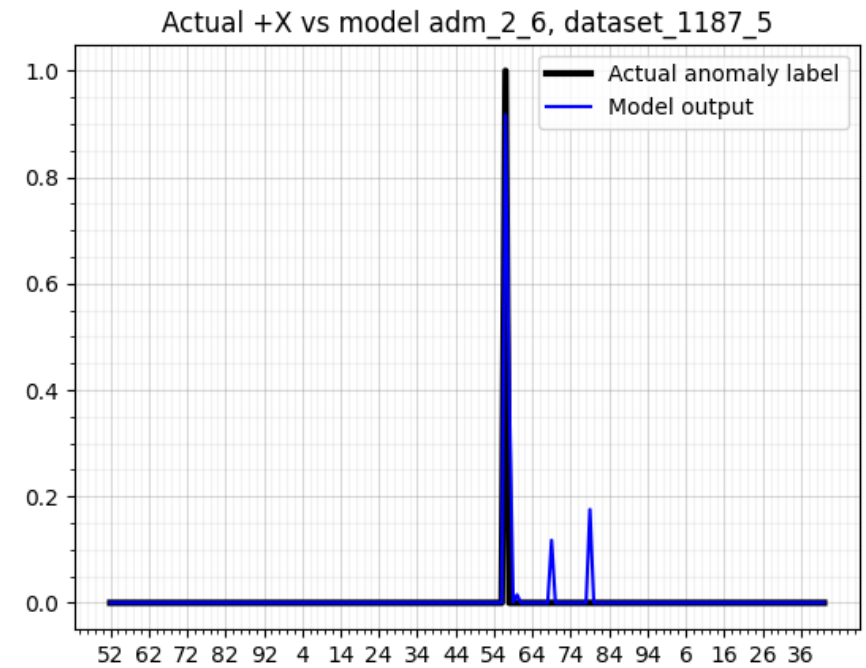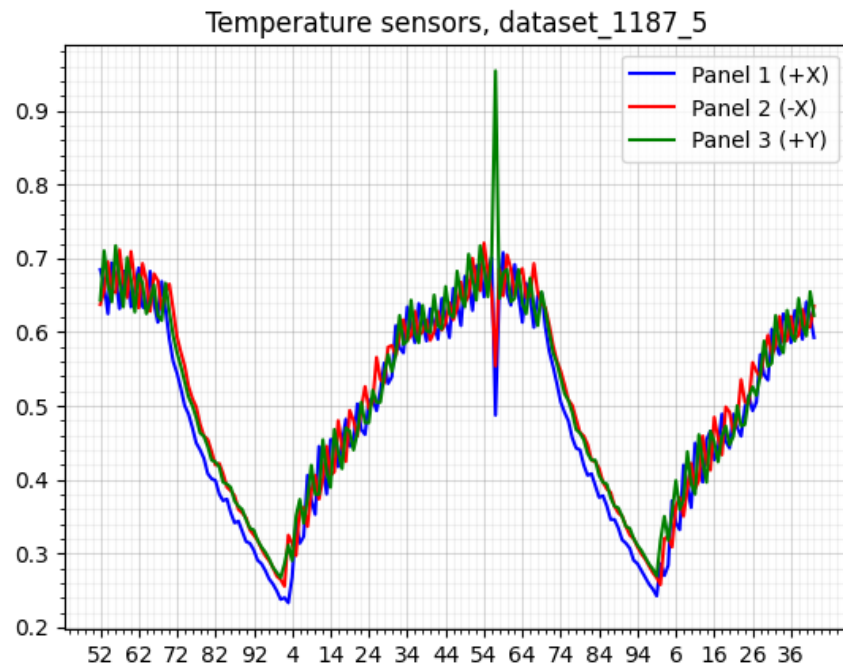
Actual +X vs model adm_2_6, dataset_1187_17

Figure 7: model inferences on dataset_1187_17_sens.png

Temperature sensors, dataset_1187_16

Actual +X vs model adm_2_6, dataset_1187_16

localhost:63342/Thesis_sat_ML/other_codes/4_Anomaly_detect_mod_2/4_2_Test model/TF_test_report/test_report_2.6.html?_ijt=ojennn617jpjsdsm8c4i3v3t98

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Figure 8: model inferences on dataset_1187_16_sens.png

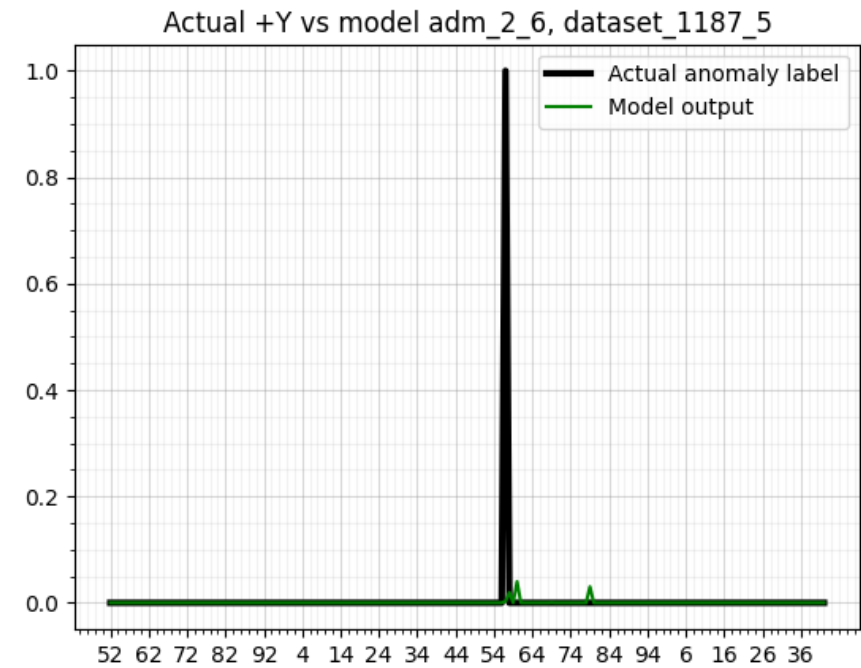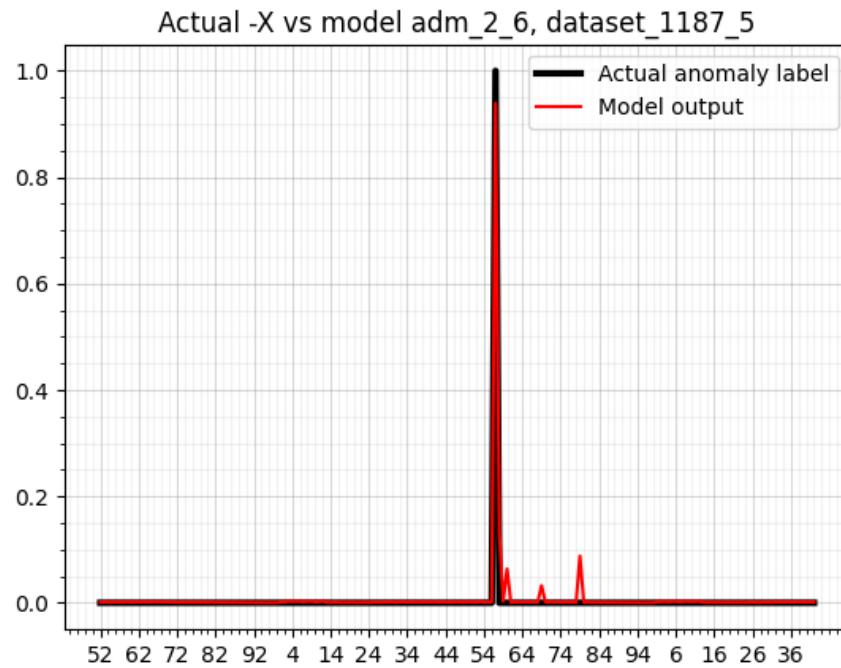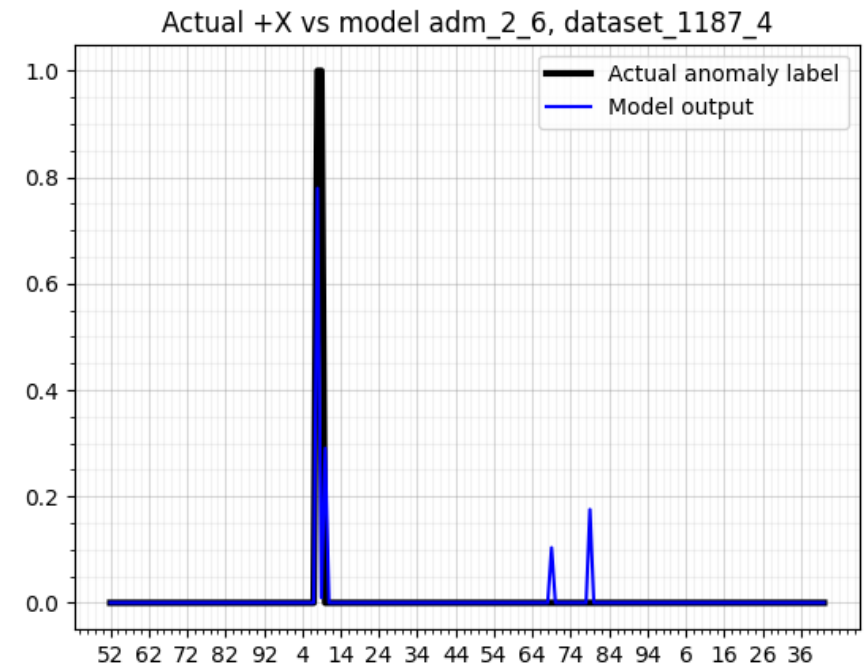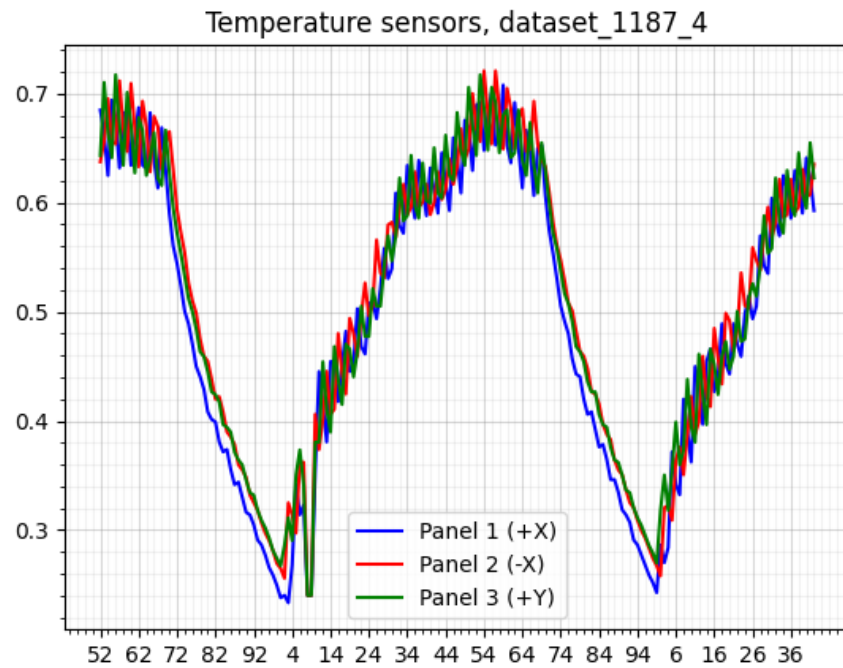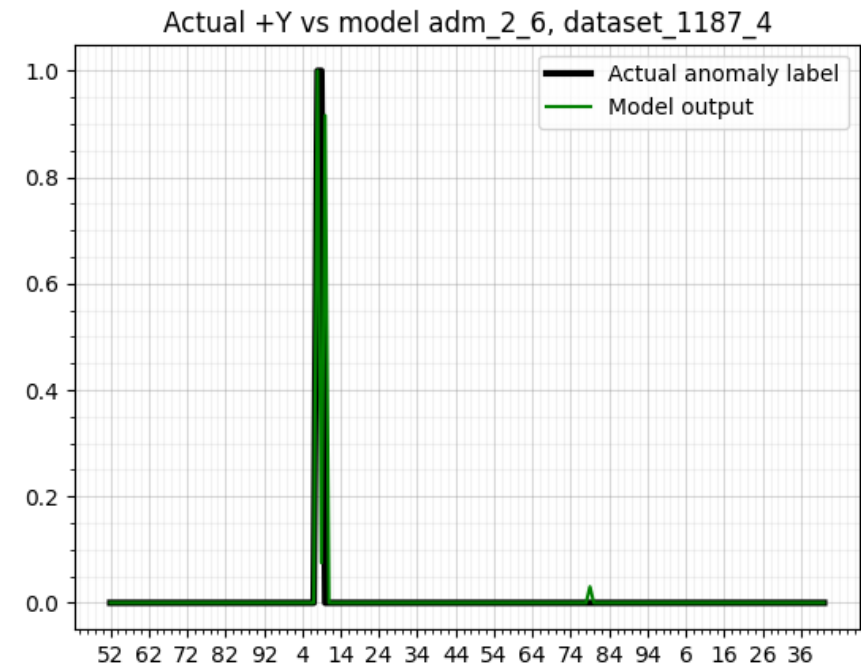Temperature sensors, dataset_1187_5

Actual +X vs model adm_2_6, dataset_1187_5

Figure 9: model inferences on dataset_1187_5_sens.png

Temperature sensors, dataset_1187_4

Actual +X vs model adm_2_6, dataset_1187_4

localhost:63342/Thesis_sat_ML/other_codes/4_Anomaly_detect_mod_2/4_2_Test model/TF_test_report/test_report_2.6.html?_ijt=ojennn617jpjsdsm8c4i3v3t98
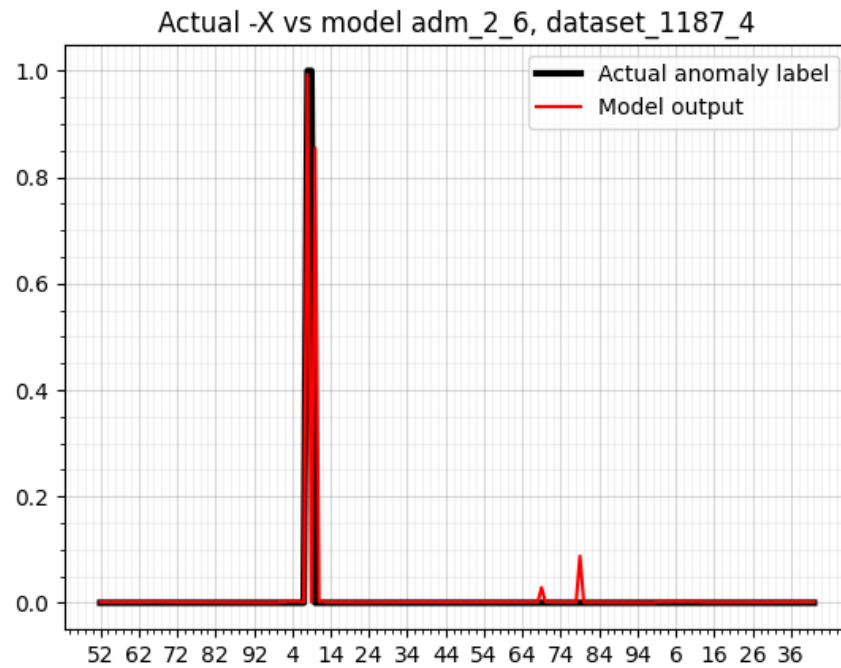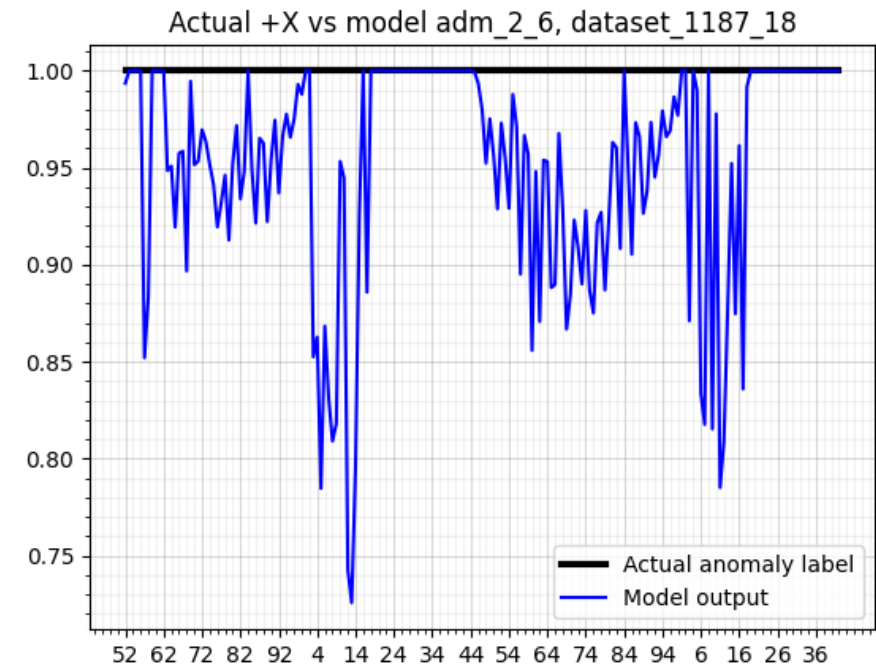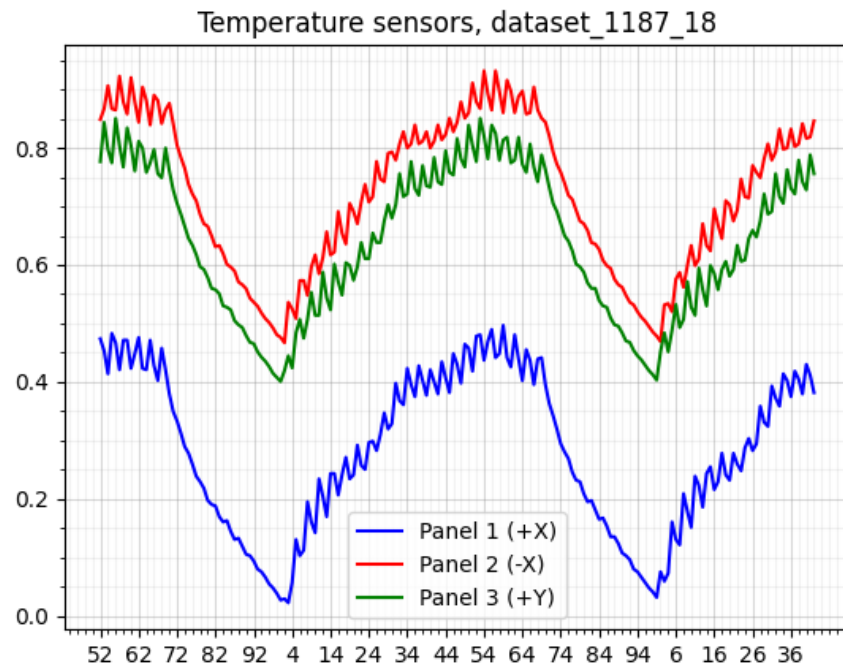
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Figure 10: model inferences on dataset_1187_4_sens.png

Temperature sensors, dataset_1187_18

Actual +X vs model adm_2_6, dataset_1187_18

localhost:63342/Thesis_sat_ML/other_codes/4_Anomaly_detect_mod_2/4_2_Test model/TF_test_report/test_report_2.6.html?_ijt=ojennn617jpjsdsm8c4i3v3t98
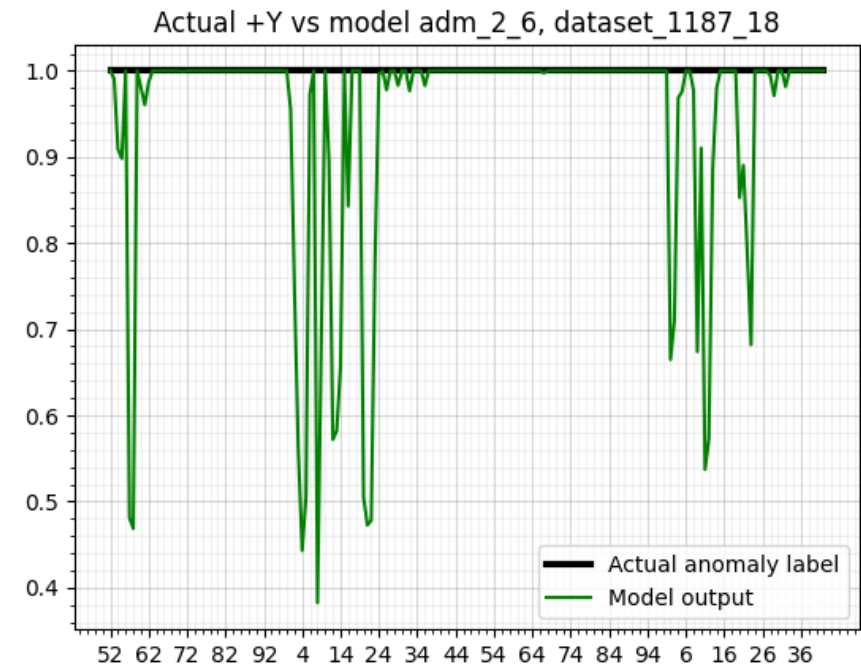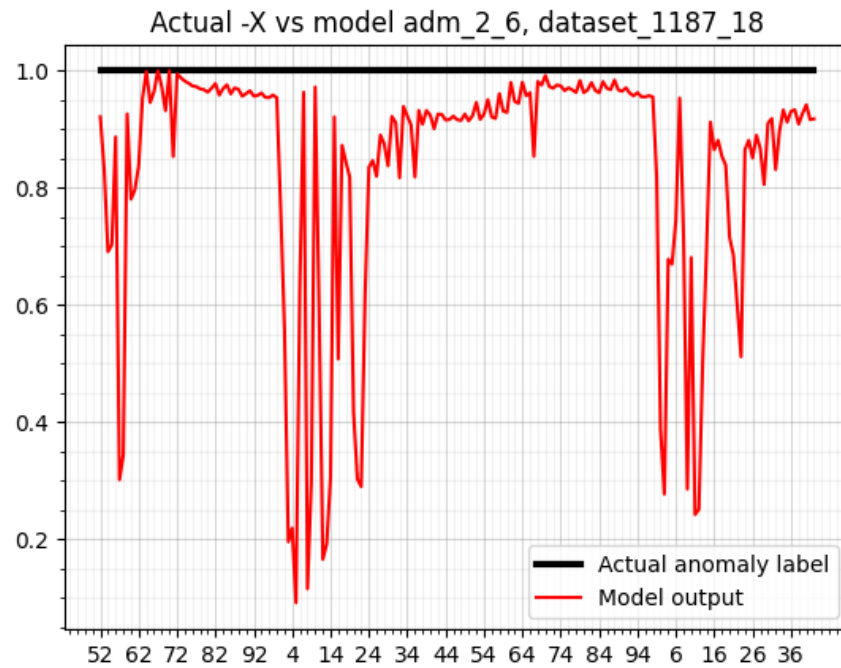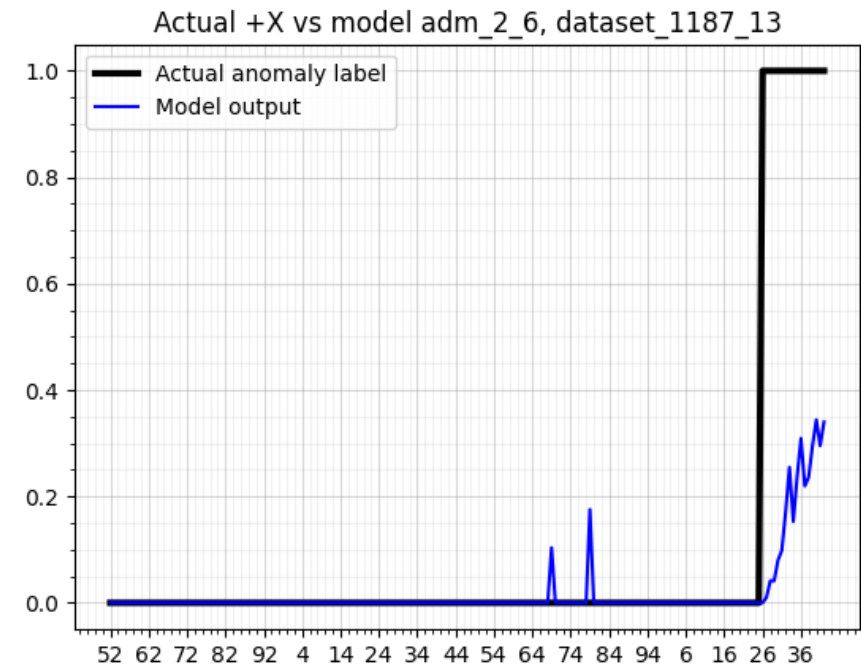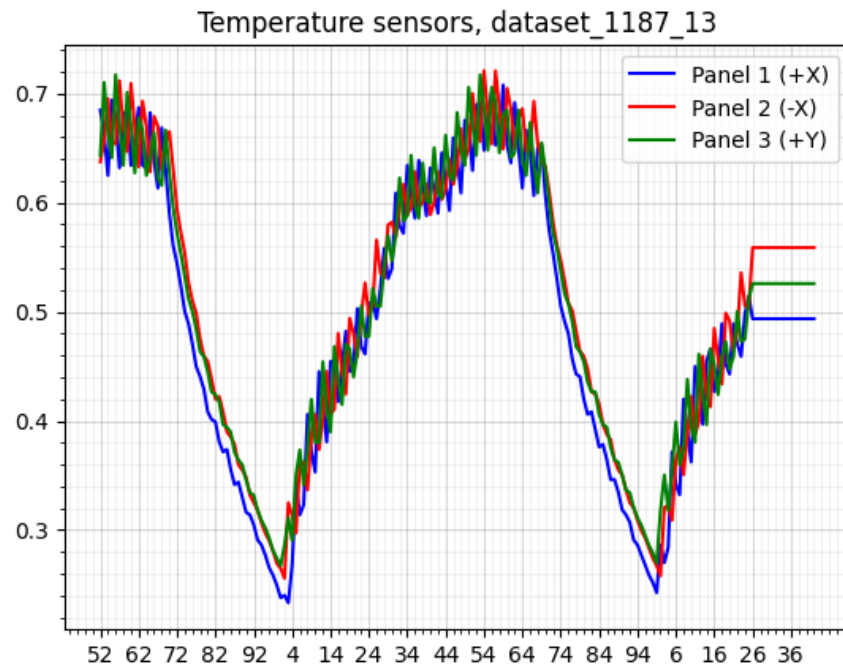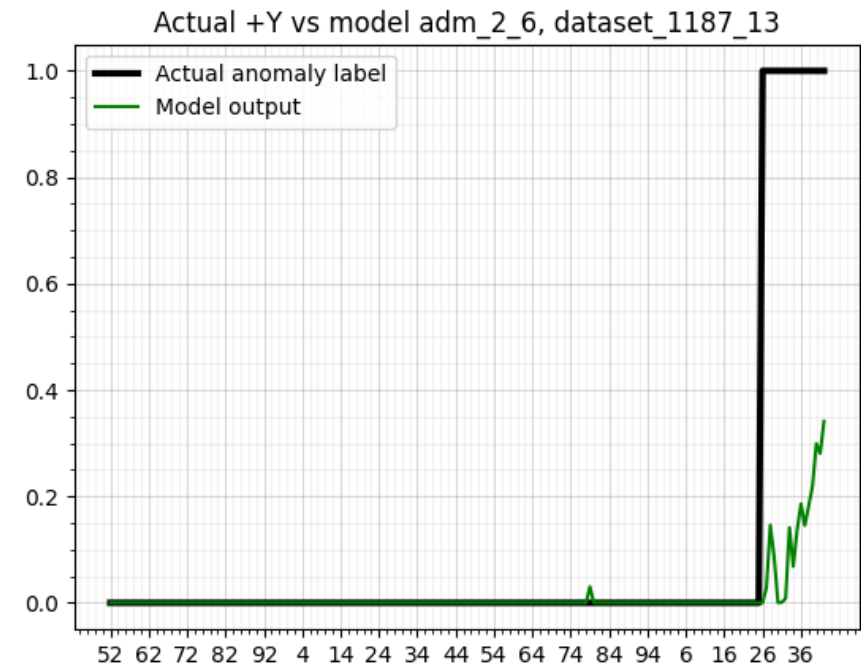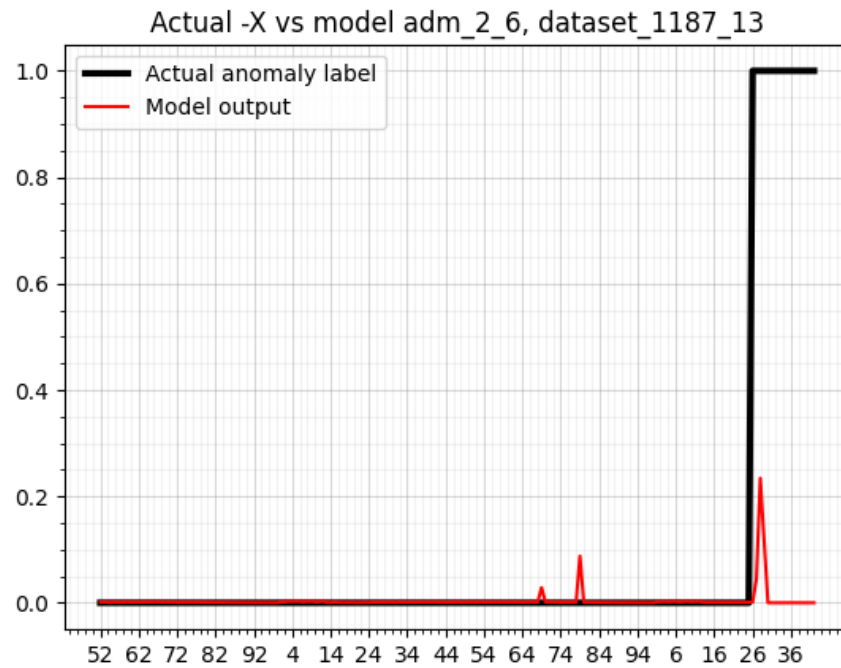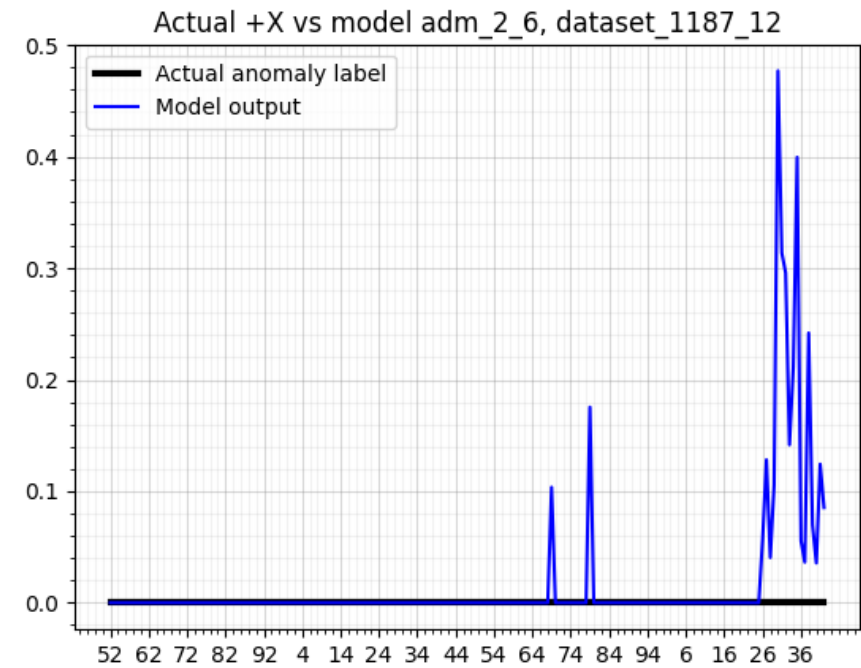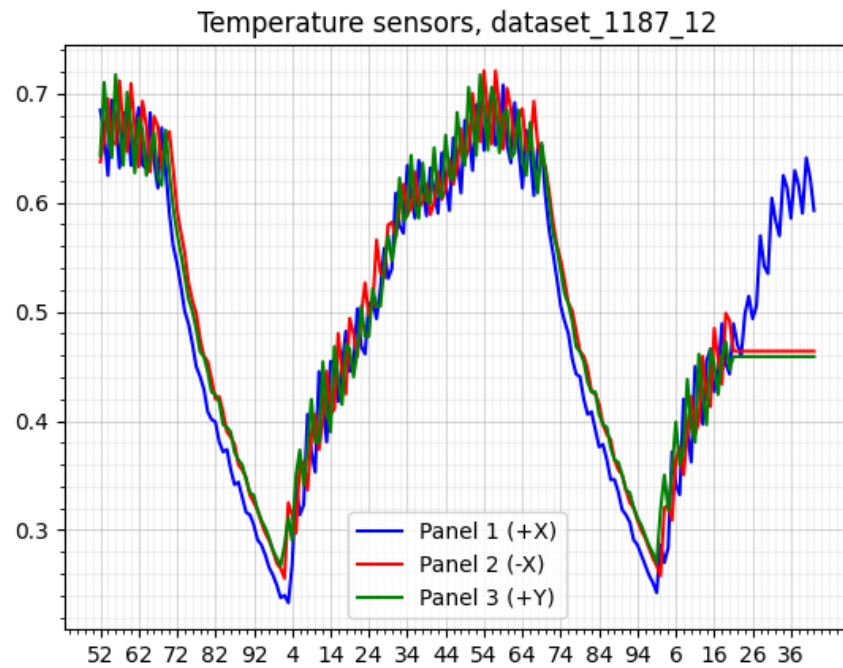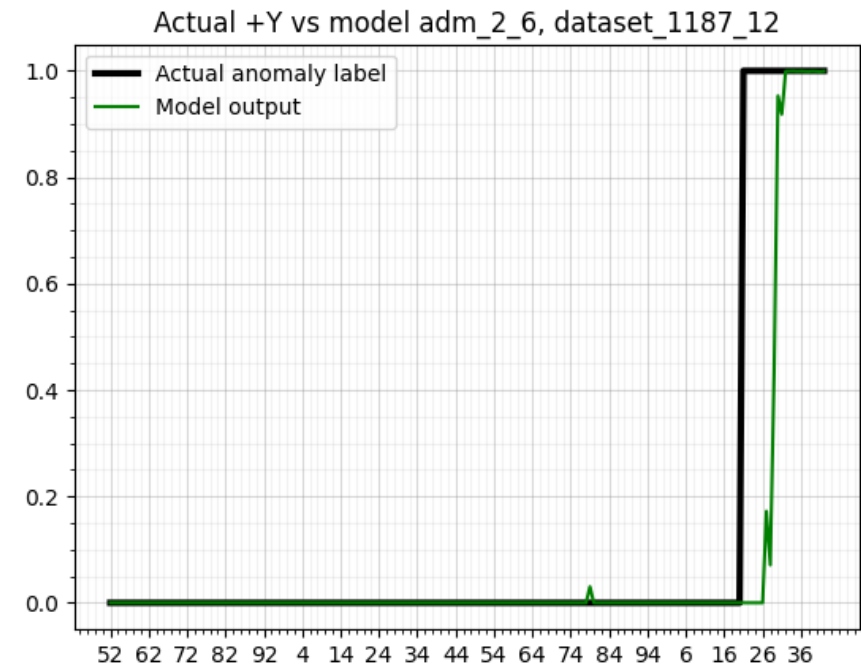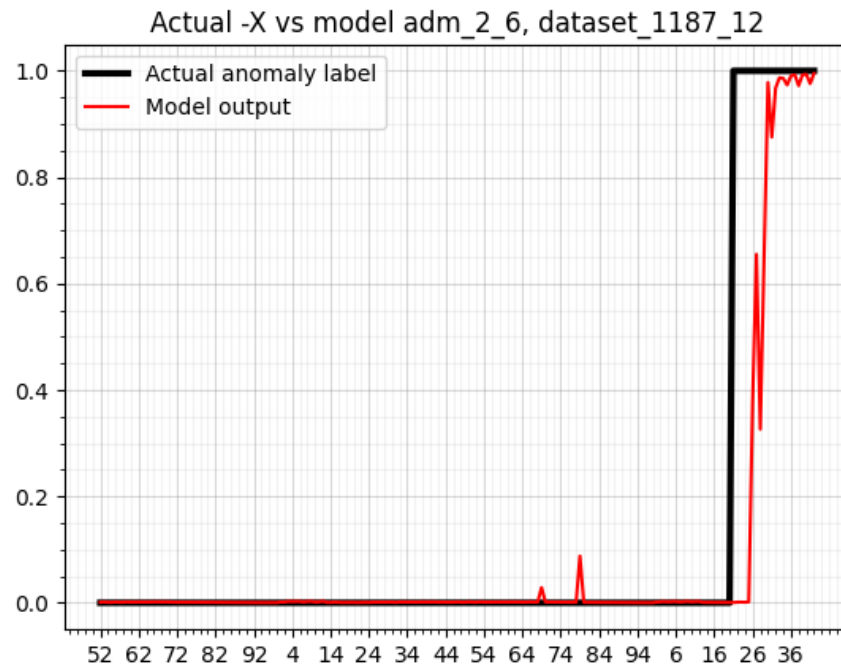
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Figure 11: model inferences on dataset_1187_18_sens.png

Temperature sensors, dataset_1187_13

Actual +X vs model adm_2_6, dataset_1187_13

localhost:63342/Thesis_sat_ML/other_codes/4_Anomaly_detect_mod_2/4_2_Test model/TF_test_report/test_report_2.6.html?_ijt=ojenn617jpjsdsm8c4i3v3t98

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Figure 12: model inferences on dataset_1187_13_sens.png

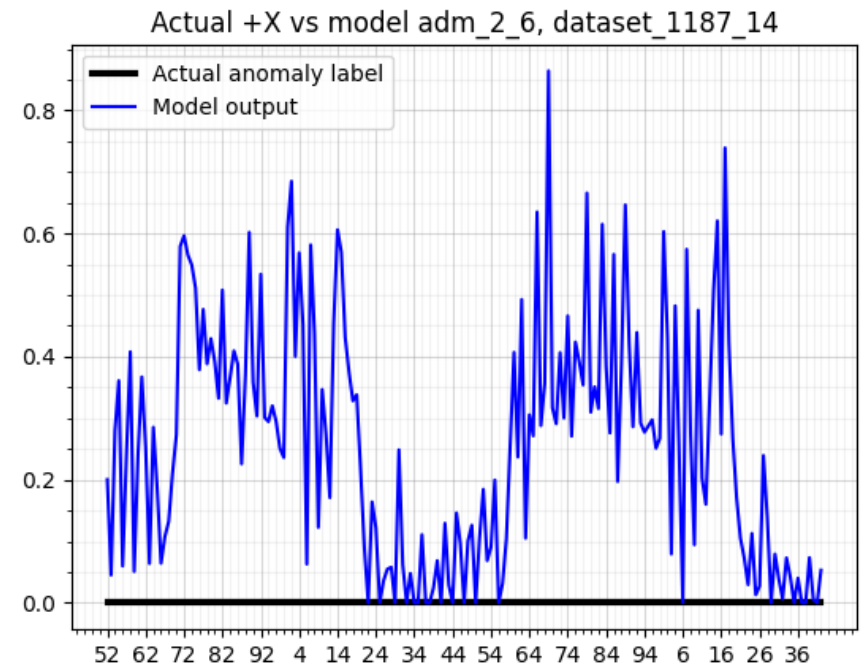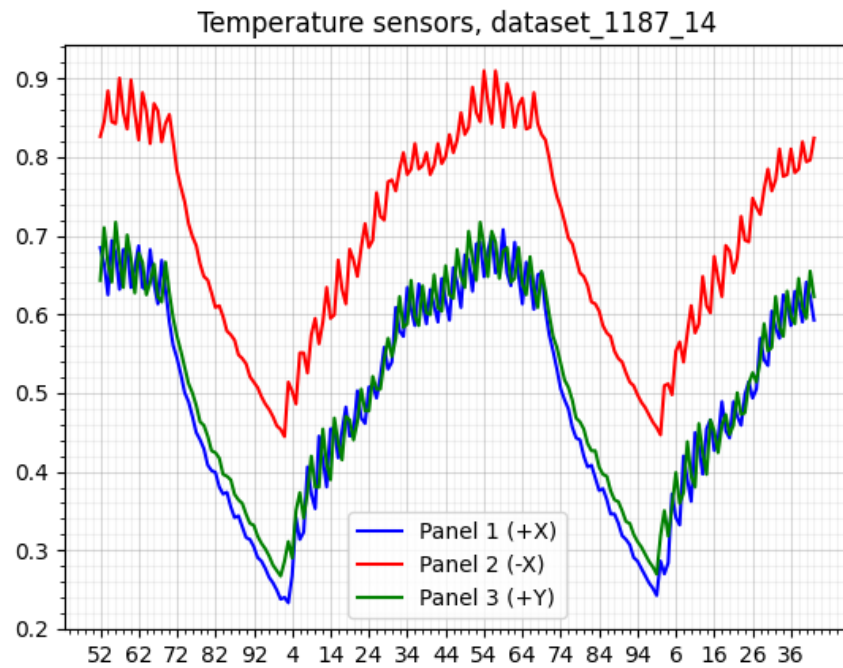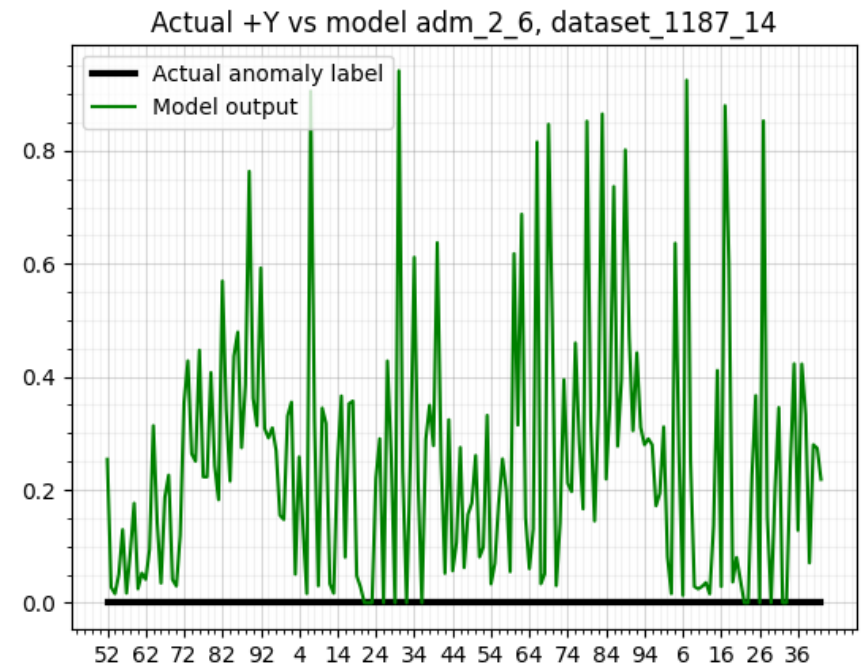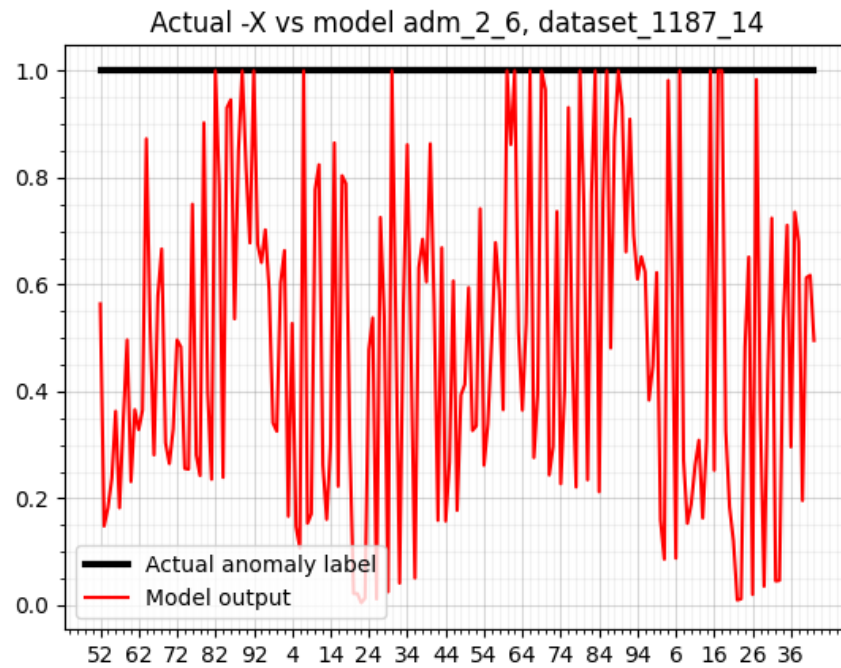Temperature sensors, dataset_1187_12

Actual +X vs model adm_2_6, dataset_1187_12

Figure 13: model inferences on dataset_1187_12_sens.png

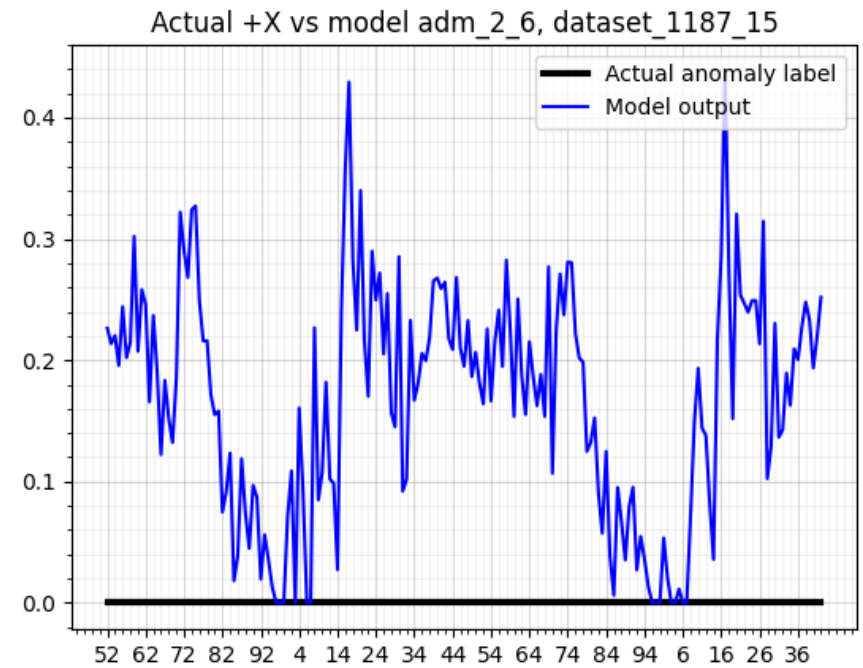Temperature sensors, dataset_1187_14
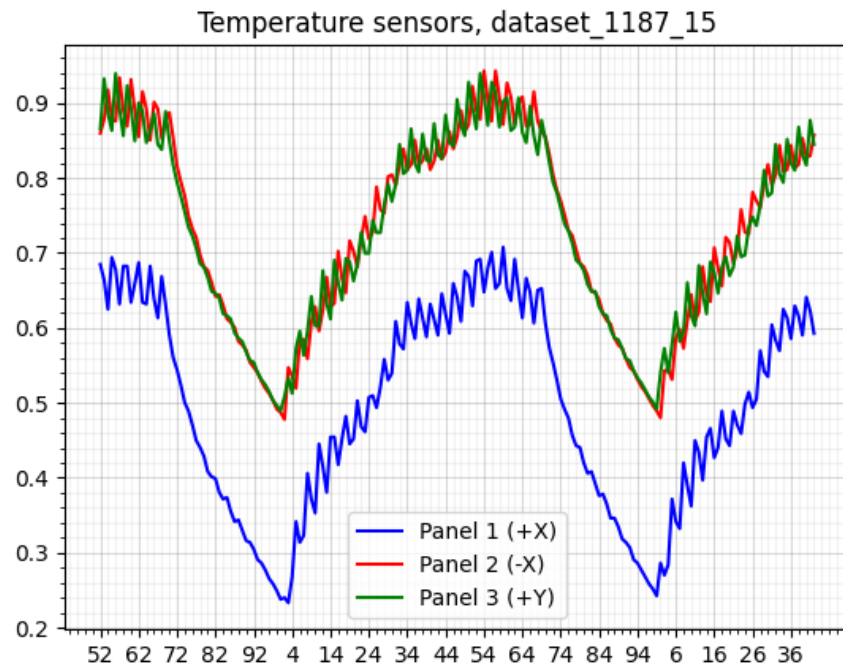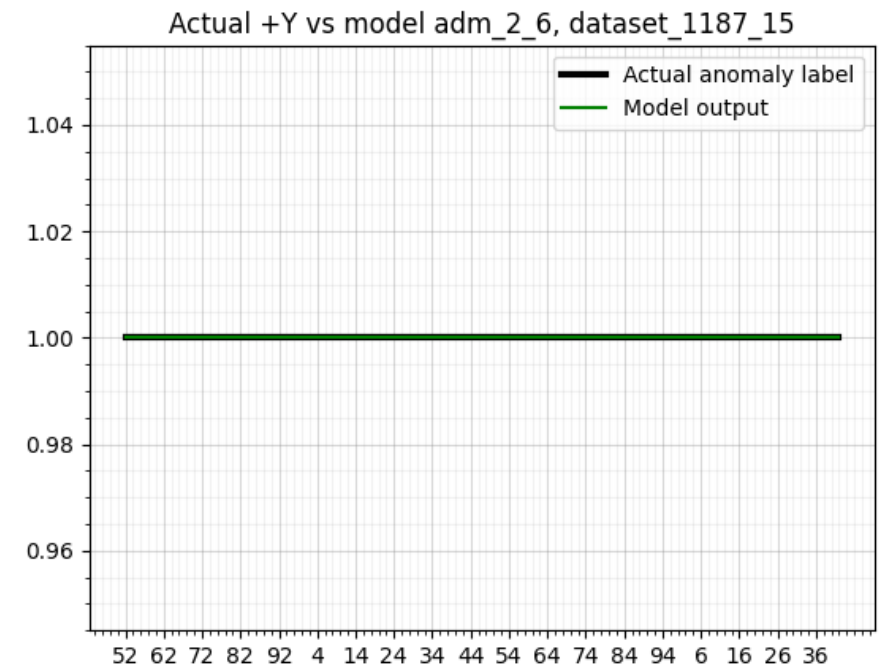
Actual +X vs model adm_2_6, dataset_1187_14

Figure 14: model inferences on dataset_1187_14_sens.png

Temperature sensors, dataset_1187_15
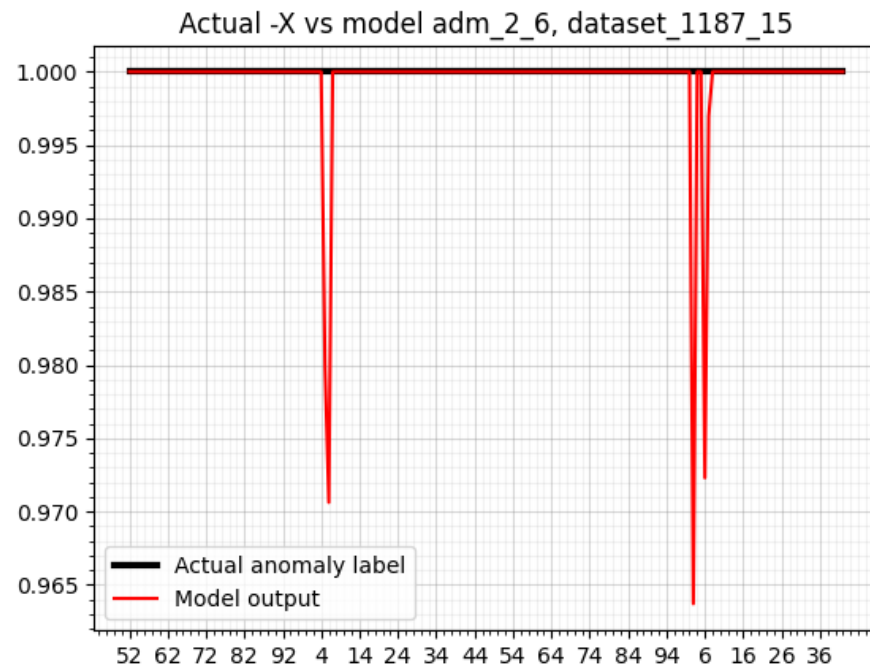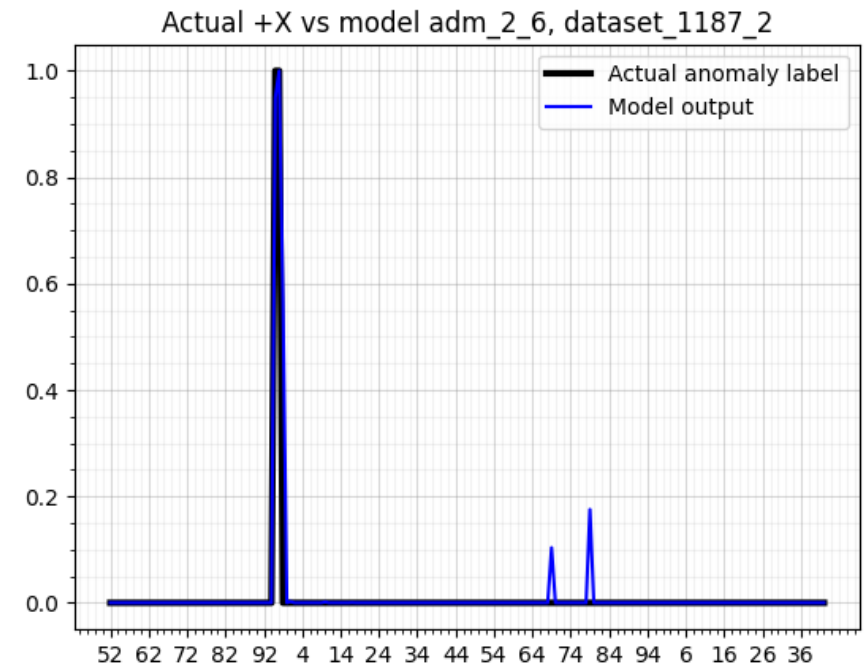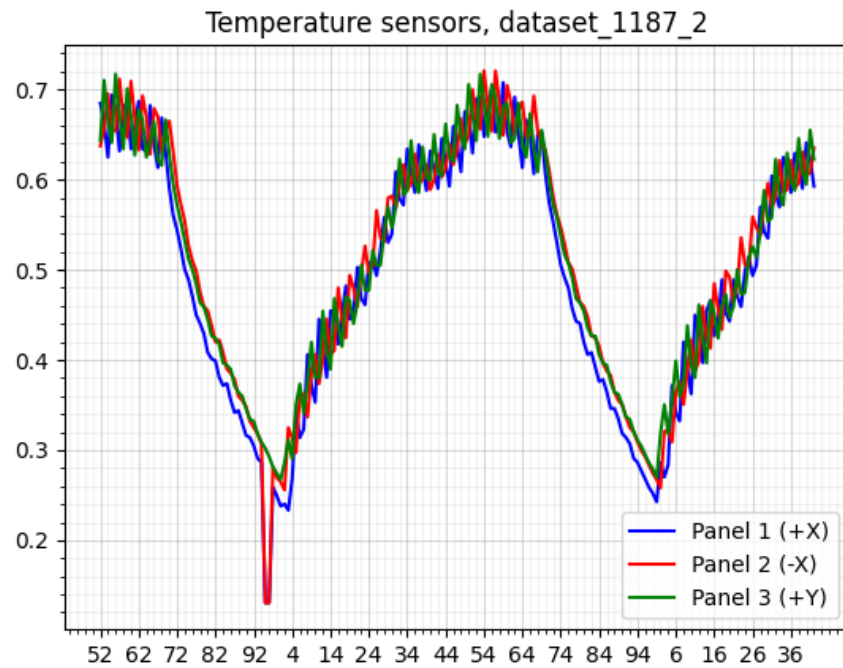
Actual +X vs model adm_2_6, dataset_1187_15

Figure 15: model inferences on dataset_1187_15_sens.png

Temperature sensors, dataset_1187_2

Actual +X vs model adm_2_6, dataset_1187_2

localhost:63342/Thesis_sat_ML/other_codes/4_Anomaly_detect_mod_2/4_2_Test model/TF_test_report/test_report_2.6.html?_ijt=ojennn617jpjsdsm8c4i3v3t98
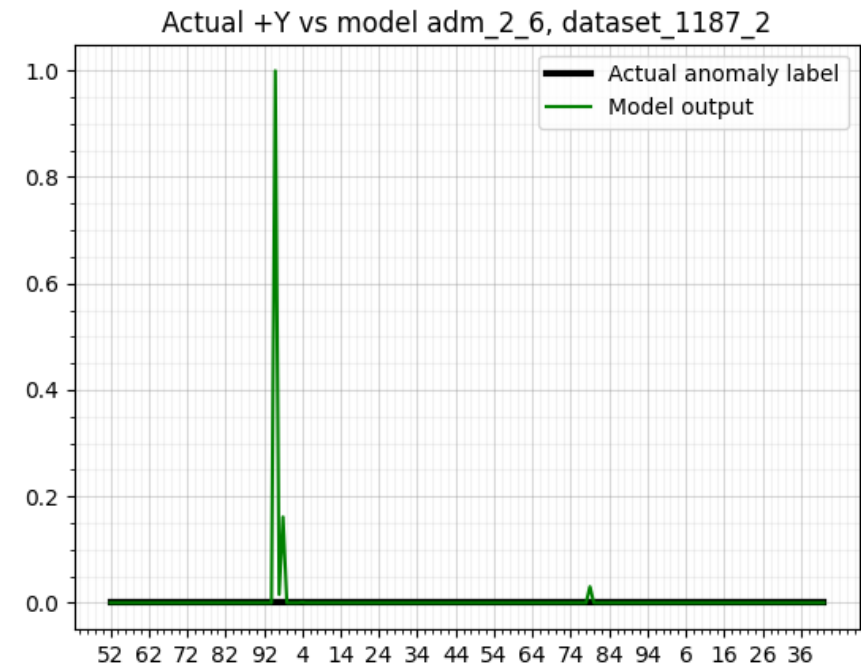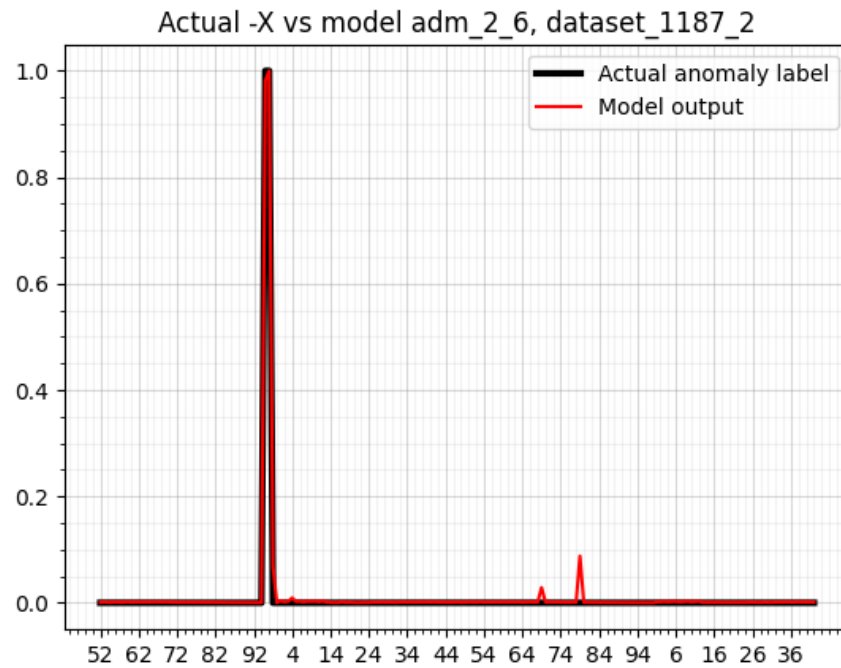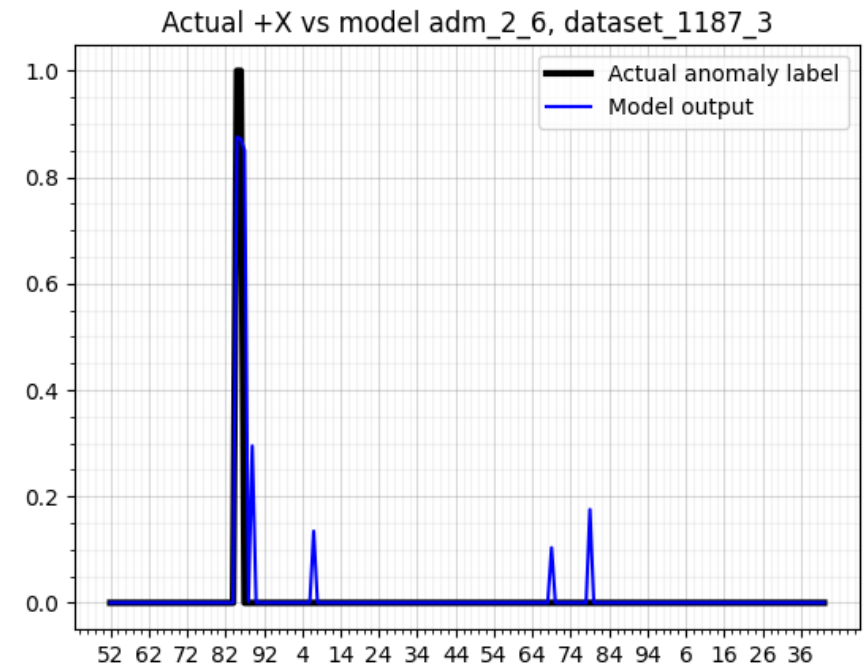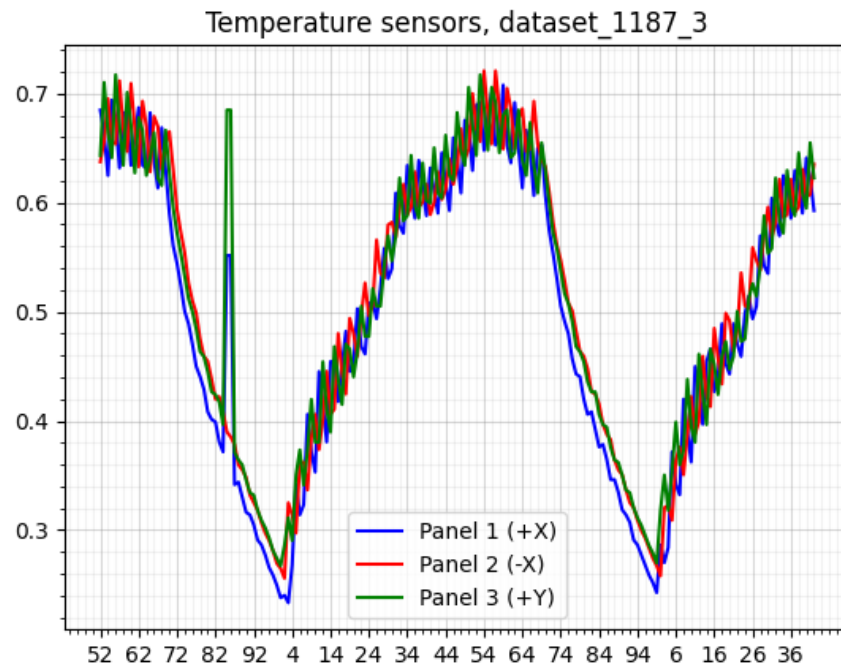
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Figure 16: model inferences on dataset_1187_2_sens.png

Temperature sensors, dataset_1187_3
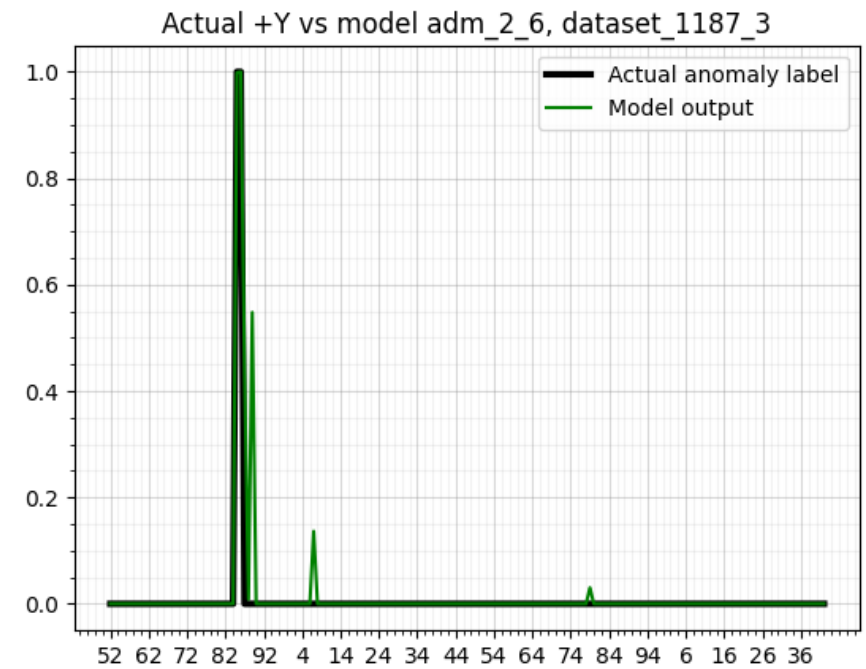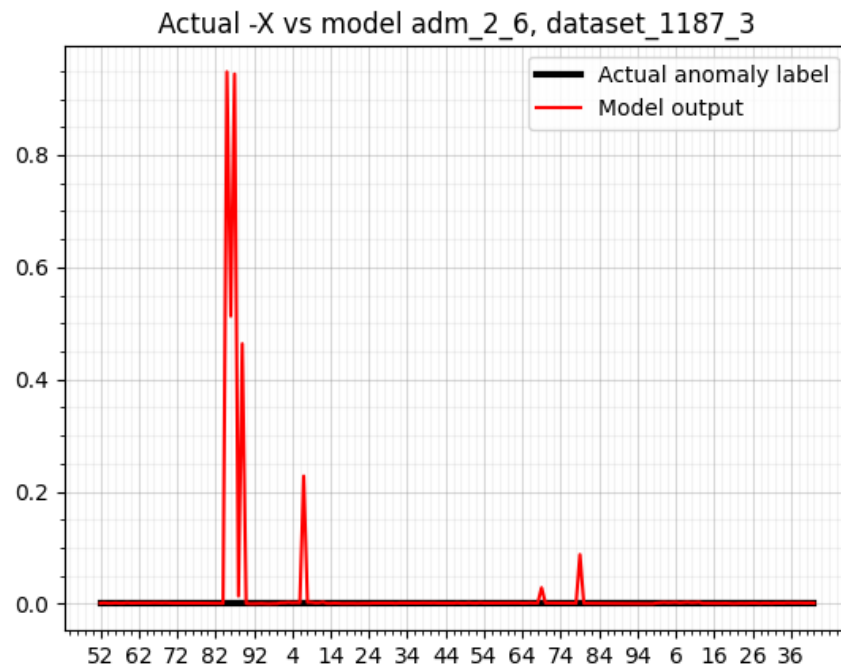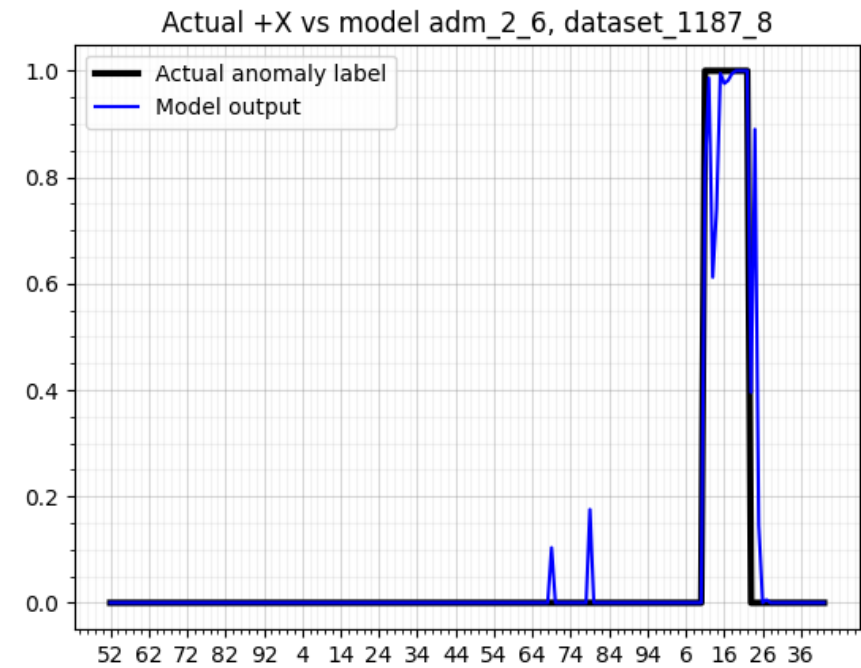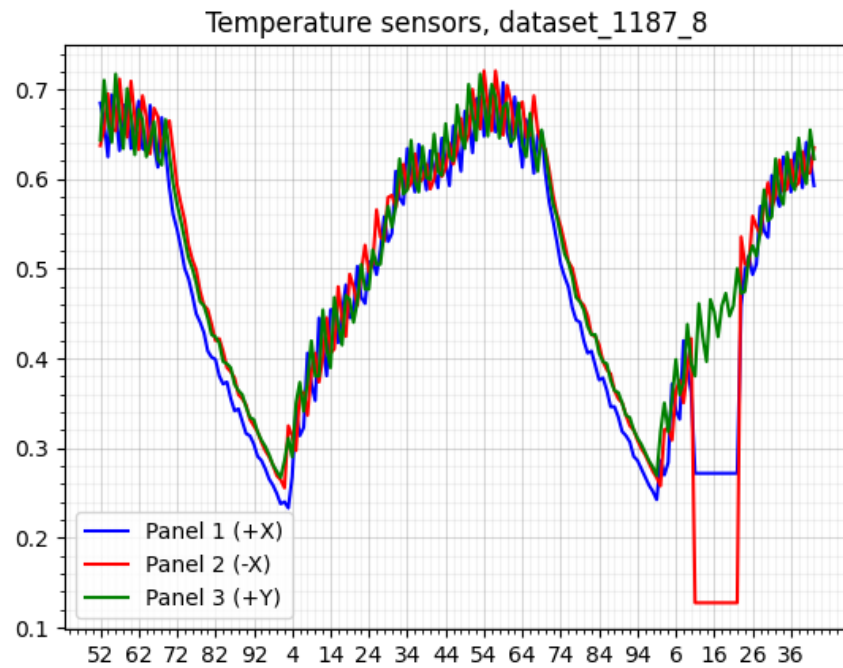
Actual +X vs model adm_2_6, dataset_1187_3

Figure 17: model inferences on dataset_1187_3_sens.png

Temperature sensors, dataset_1187_8
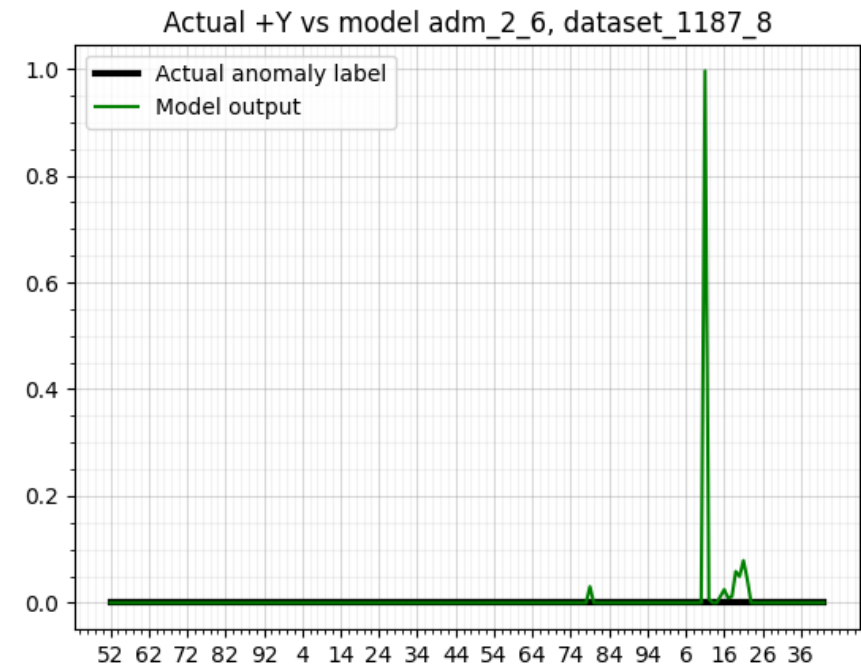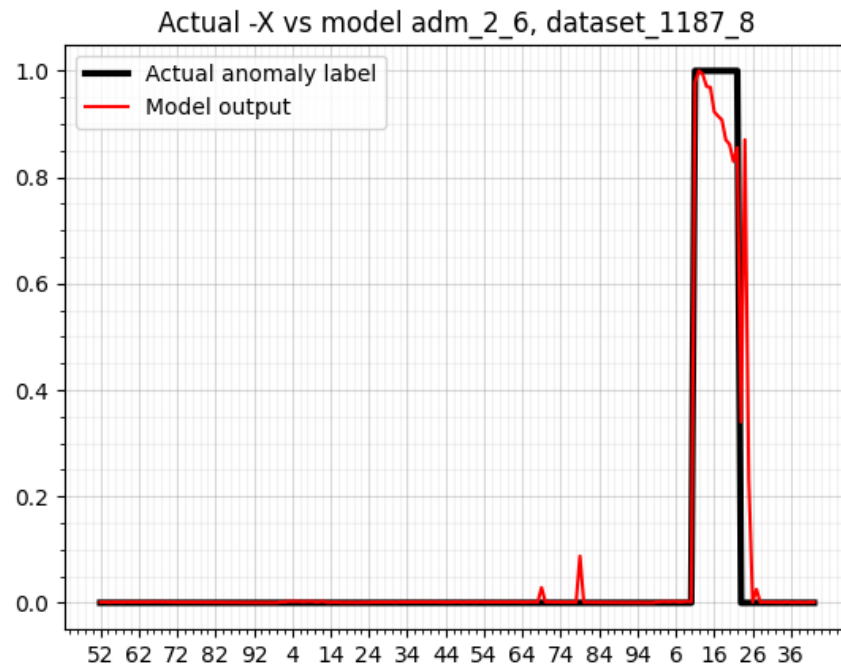
Actual +X vs model adm_2_6, dataset_1187_8

Figure 18: model inferences on dataset_1187_8_sens.png

localhost:63342/Thesis_sat_ML/other_codes/4_Anomaly_detect_mod_2/4_2_Test model/TF_test_report/test_report_2.6.html?_ijt=ojennn617jpjsdsm8c4i3v3t98

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Temperature sensors, dataset_1187_9

Actual +X vs model adm_2_6, dataset_1187_9
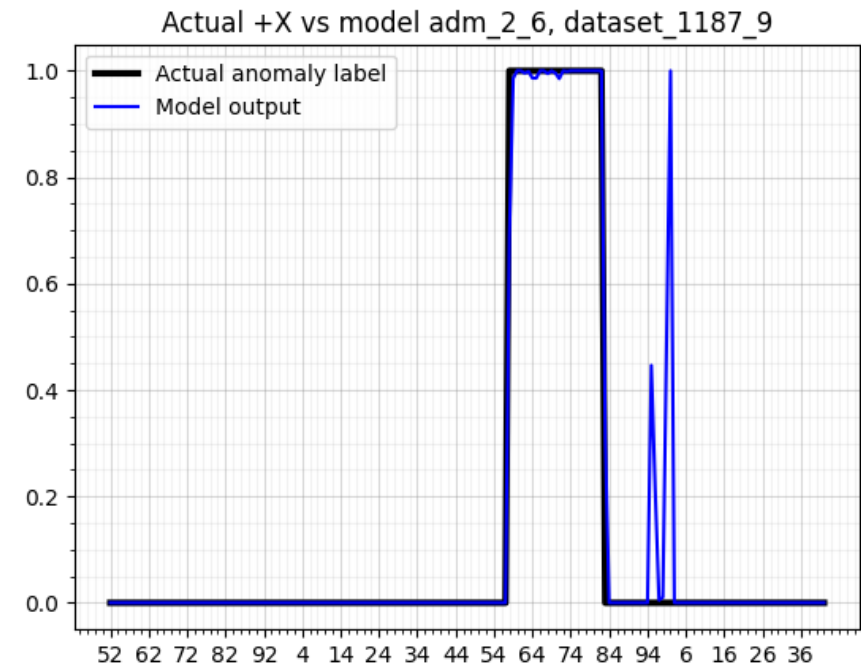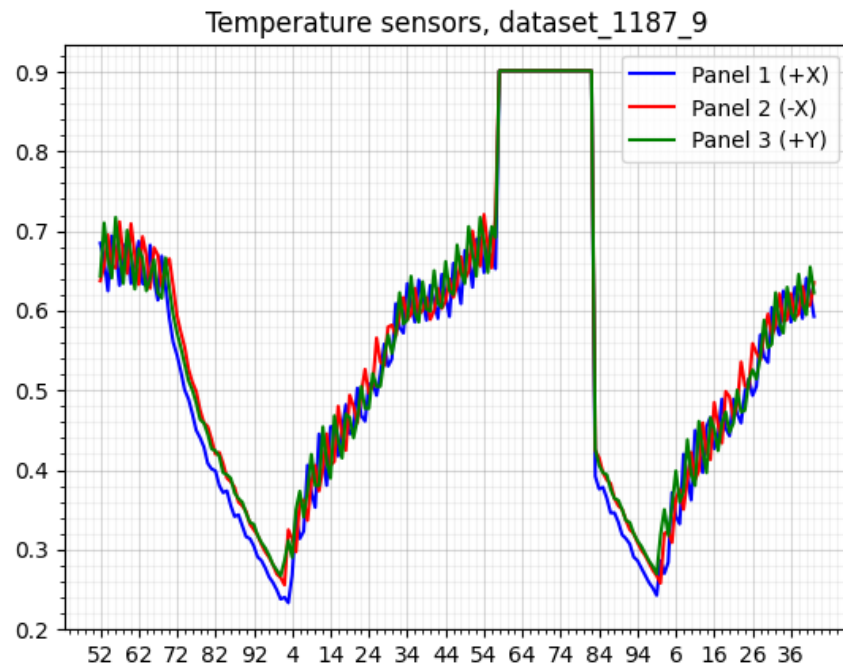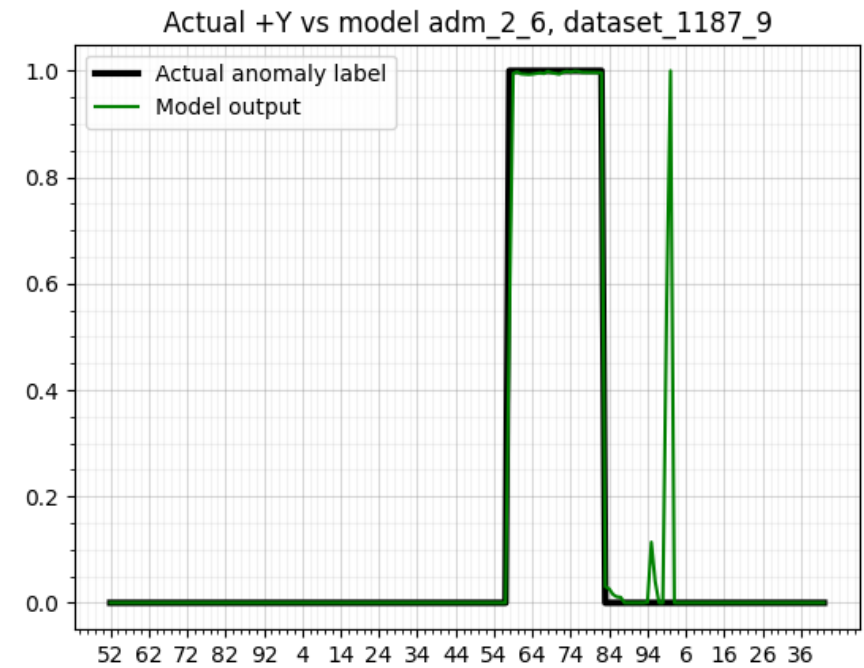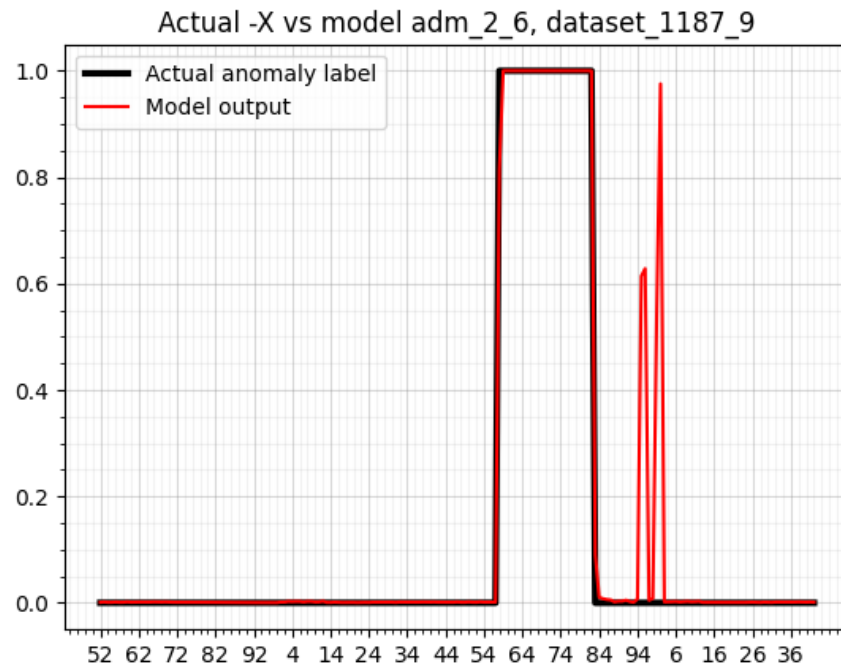
Figure 19: model inferences on dataset_1187_9_sens.png