Fault labels:

Quench100ms--0

Quench3ms--1

Equench--2

HRC--3

Microphonics--4

Control--5

SCTO—6

All the test data label

[2. 0. 6. 3. 0. 2. 0. 2. 2. 6. 2. 6. 5. 2. 6. 4. 6. 6. 0. 6. 2. 4. 2. 4.

2. 5. 2. 5. 5. 2. 5. 6. 1. 6. 0. 6. 6. 1. 6. 6. 6. 2. 6. 5. 5. 6. 0. 5.

0. 2. 3. 4. 6. 5. 0. 1. 6. 5. 5. 3. 6. 4. 2. 4. 6. 4. 6. 0. 6. 4. 2. 4.

6. 2. 6. 6. 2. 6. 4. 4. 6. 1. 6. 1. 2. 2. 5. 5. 1. 5. 4. 4. 4. 3. 5. 1.

2. 2. 4. 2. 6. 6. 6. 6. 6. 6. 1. 5. 6. 6. 2. 4. 0. 2. 1. 6. 6. 6. 6. 6.

1. 6. 5. 6. 4. 4. 6. 6. 6. 1. 2. 6. 6. 6. 5. 4. 2. 2. 2. 4. 6. 2. 4. 2.

5. 6. 2. 4. 3. 2. 6. 1. 1. 6. 4. 5. 5. 2. 6. 6. 6. 4. 1. 6. 6. 4. 6. 0.

1. 6. 6. 1. 6. 0. 0. 2. 0. 4. 0. 2. 2. 4. 2. 0. 0. 0. 2. 2. 2. 6. 6. 6.

2. 6. 1. 6. 0. 2. 6. 6. 2. 5. 5. 6. 2. 0. 6. 1. 5. 6. 0. 0. 2. 1. 0. 6.

2. 6. 5. 4. 5. 5. 6. 2. 0. 6. 1. 6. 6. 0. 0. 2. 0. 6. 5. 2. 2. 0. 4. 4.

3. 6. 6. 6. 4. 2. 2. 6. 5. 6. 1. 6. 5. 0. 6. 6. 0. 2. 0. 6. 6. 6. 5. 0.

4. 6. 4. 2. 0. 4. 5. 4. 2. 6. 6. 6. 6. 2. 6. 6. 2. 6. 6. 0. 6. 6. 3. 0.

4. 6. 2. 4. 2. 5. 5. 6. 4. 4. 1. 1. 5. 0. 6. 4. 2. 6. 1. 6. 0. 0. 1. 4.

6. 1.]

Yellow color is the prediction, Green color is ground truth

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tensor([5, 6, 6, 6, 5, 2, 5, 6, 5, 6, 0, 6, 5, 0, 6, 6], device='cuda:0')

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tensor([2, 6, 1, 6, 0, 0, 1, 4, 6, 1], device='cuda:0')

Best Model: faultID Test Accuracy: 84.875

precision recall f1-score support

Quench100ms 0.900000 0.947368 0.923077 38.000000

Quench\_3ms 0.600000 0.576923 0.588235 26.000000

E\_Quench 0.896552 0.866667 0.881356 60.000000

Heat Riser Choke 0.714286 0.714286 0.714286 7.000000

Microphonics 0.850000 0.829268 0.839506 41.000000

Controls Fault 0.727273 0.685714 0.705882 35.000000

Single Cav Turn off 0.918919 0.953271 0.935780 107.000000

accuracy 0.853503 0.853503 0.853503 0.853503

macro avg 0.801004 0.796214 0.798303 314.000000

weighted avg 0.851025 0.853503 0.851931 314.000000

Process finished with exit code 0