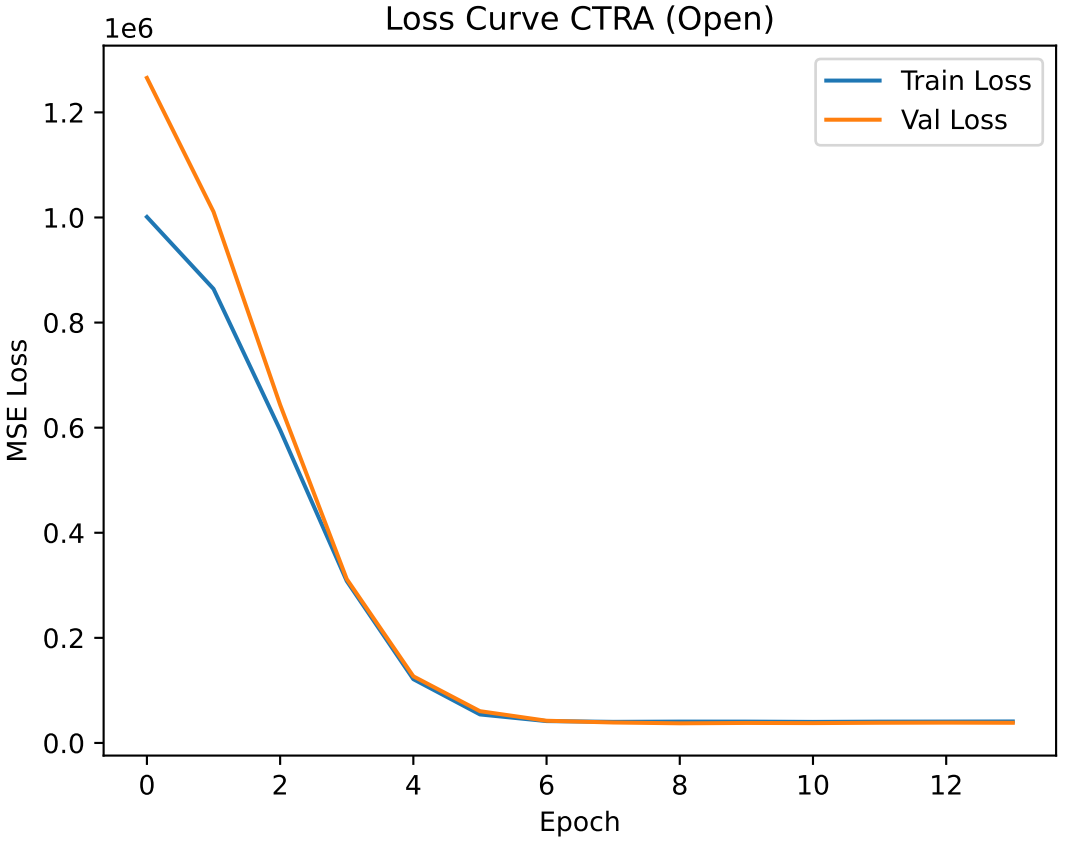
Loss Curve CTRA (Open)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
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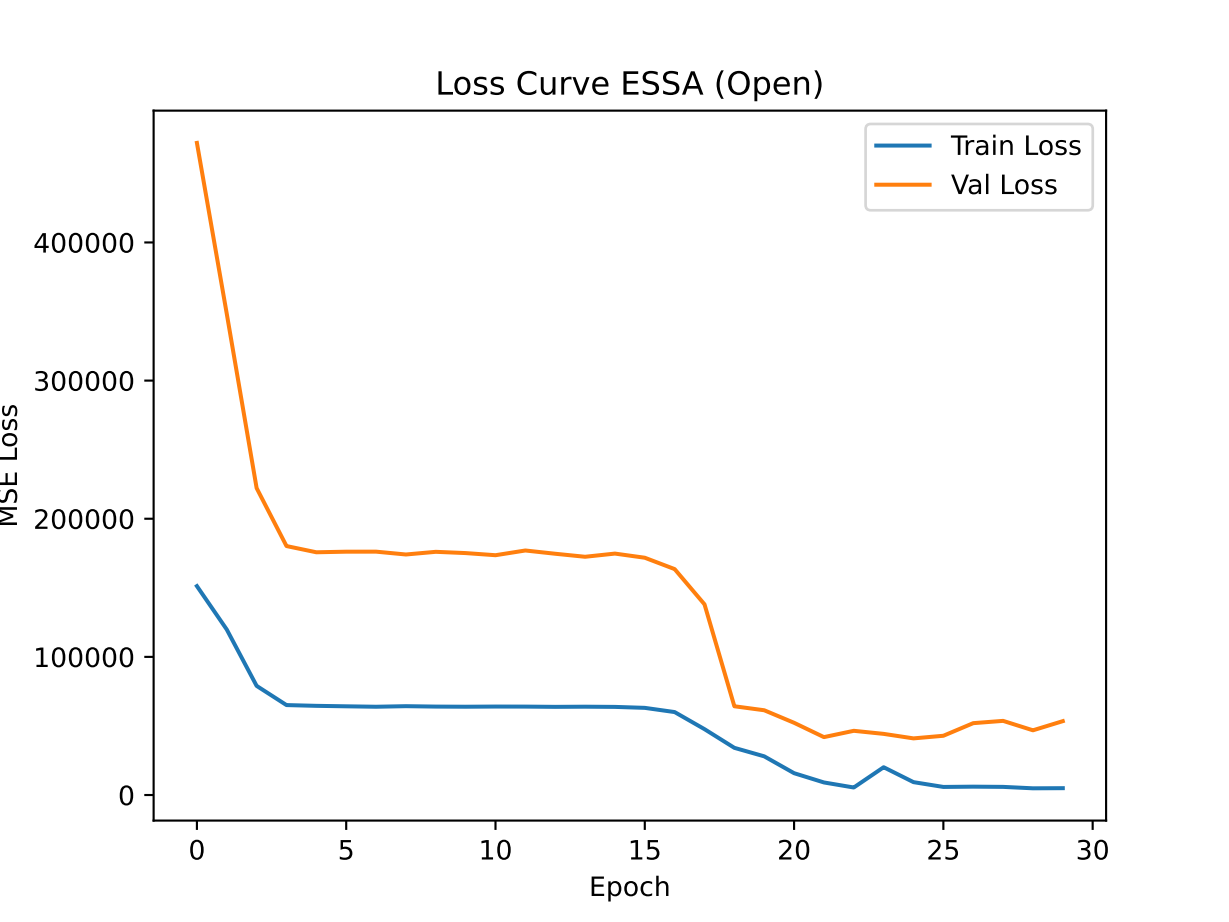
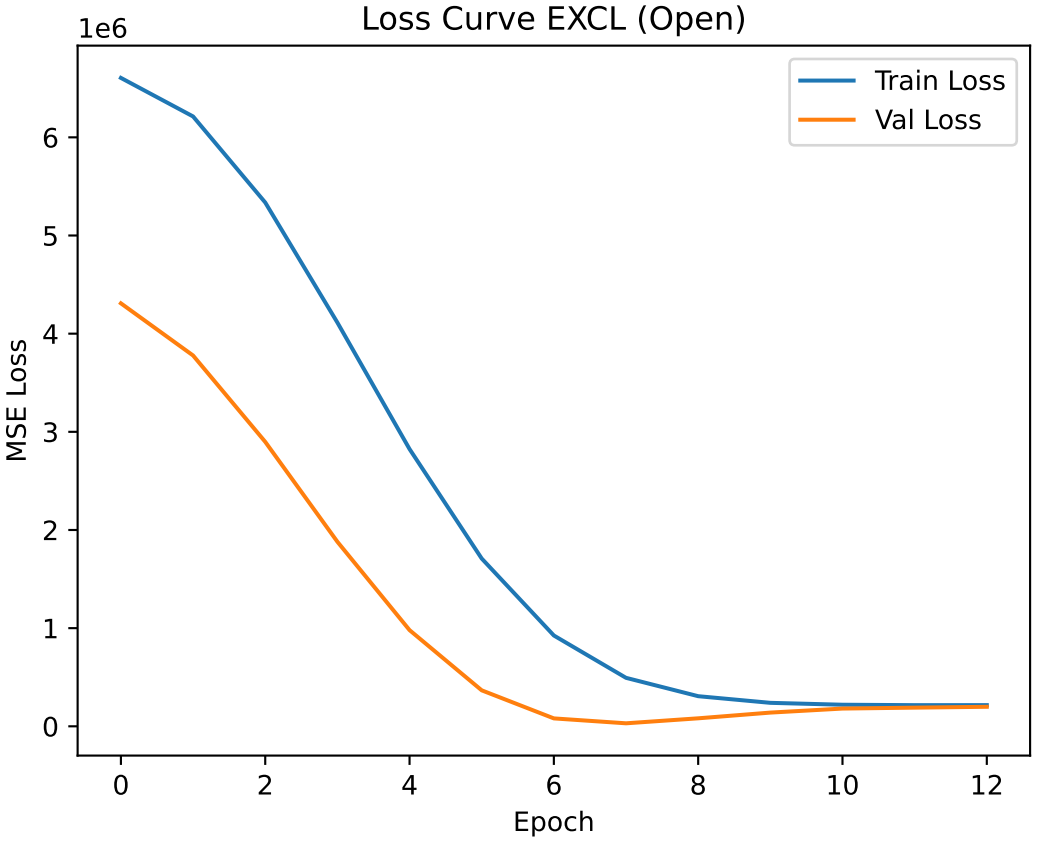
10
12


Loss Curve ESSA (Open)
Train Loss
Val Loss
MSE Loss
400000
300000
200000
100000
0
0
5
10
15
20
25
30
Epoch


Loss Curve EXCL (Open)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
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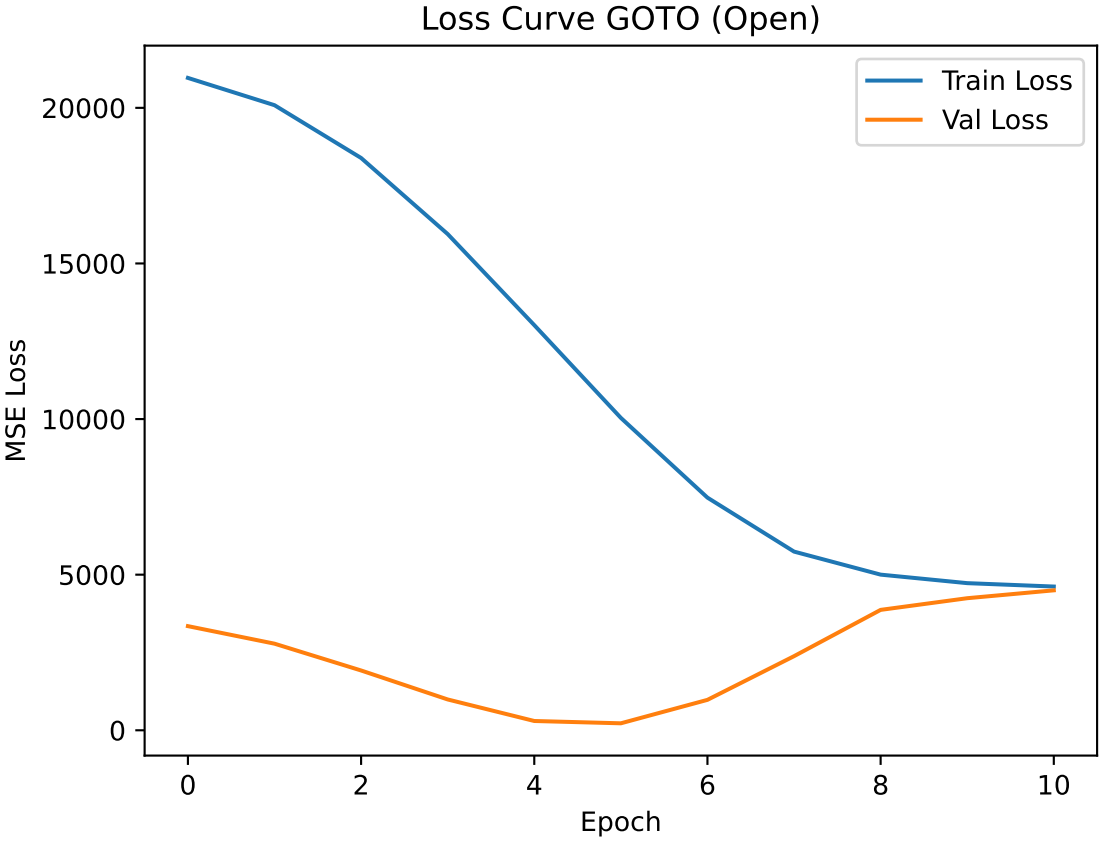
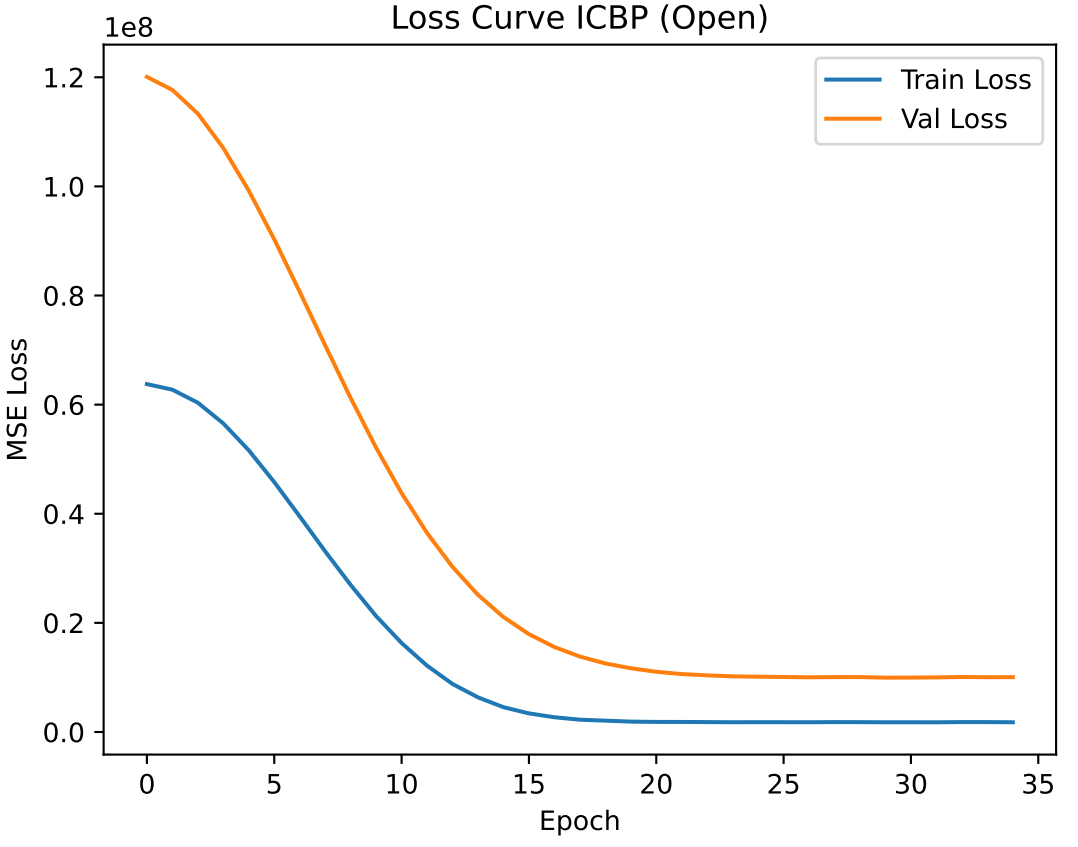
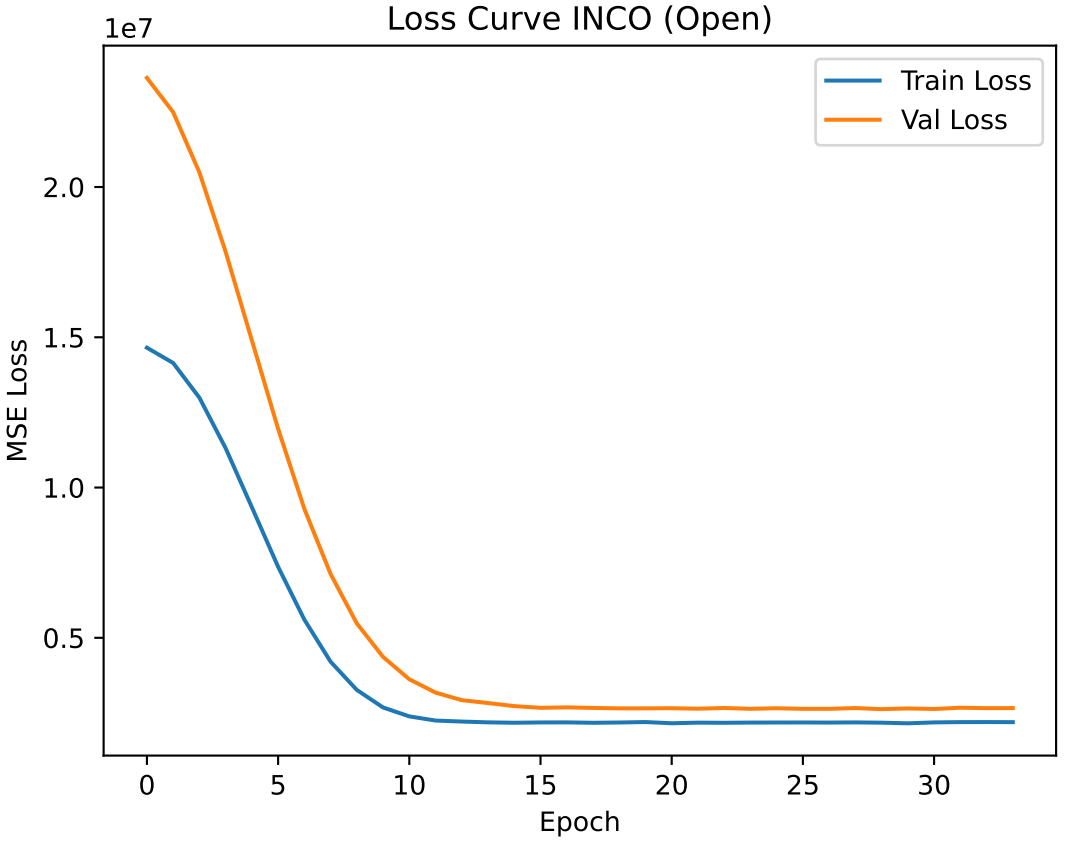
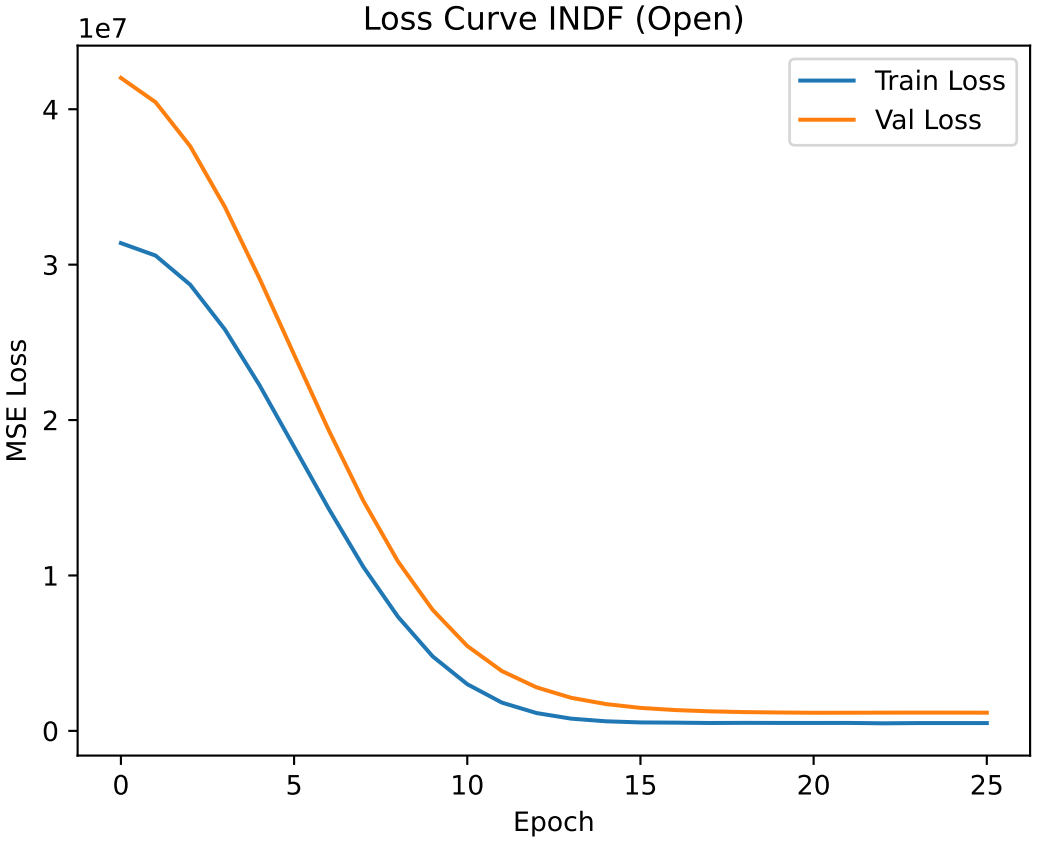
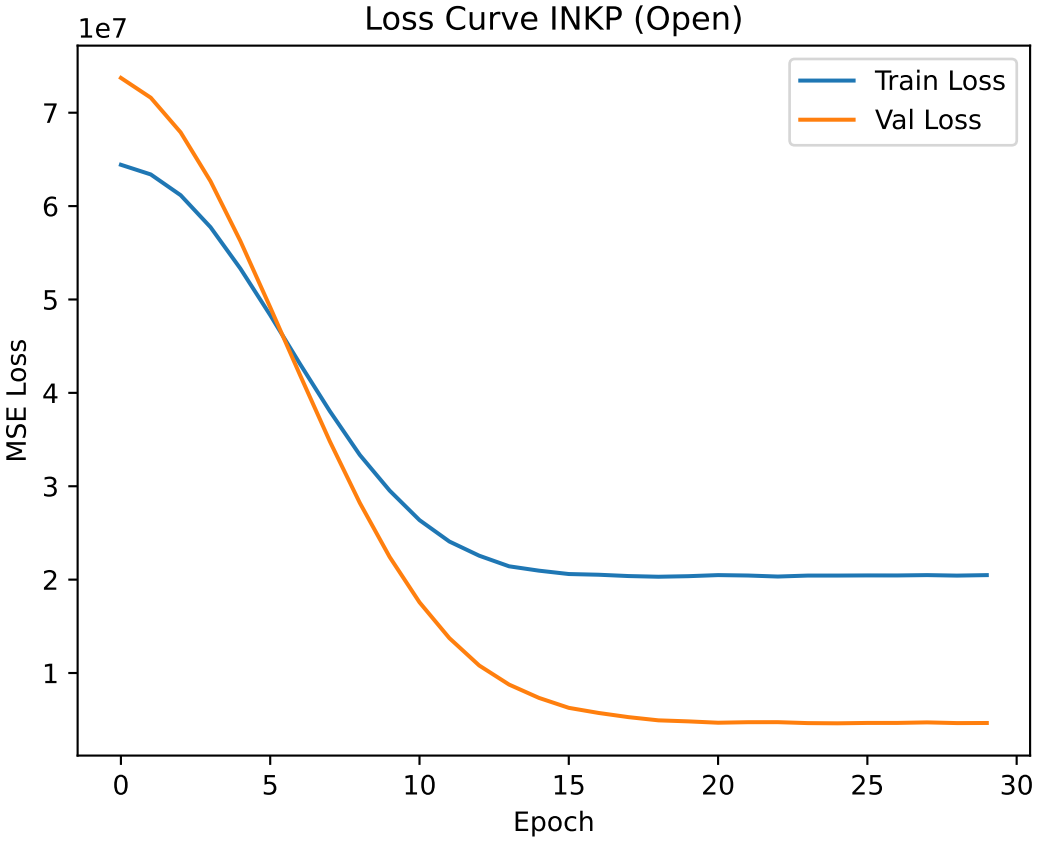
2
4
6
8
10
12


Loss Curve GOTO (Open)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch


Loss Curve ICBP (Open)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch


Loss Curve INCO (Open)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
30
Epoch


Loss Curve INDF (Open)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25


Loss Curve INKP (Open)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
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30
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4
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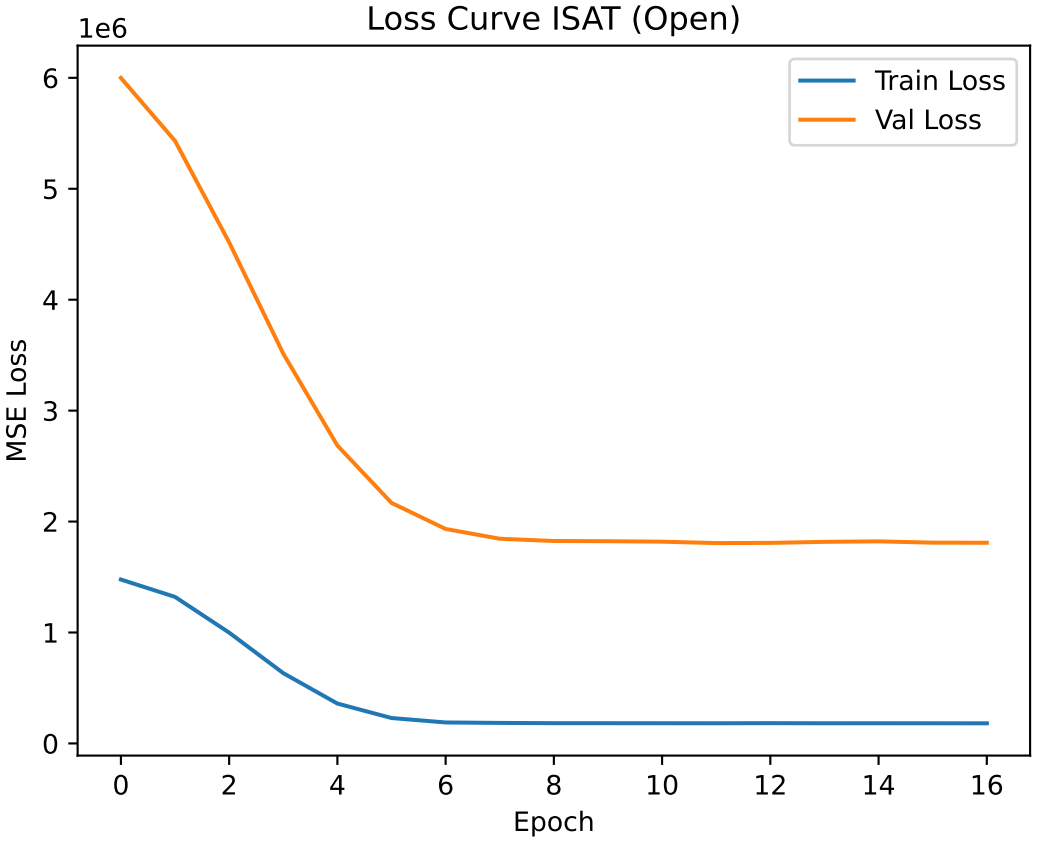
6
7


Loss Curve ISAT (Open)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
0
2
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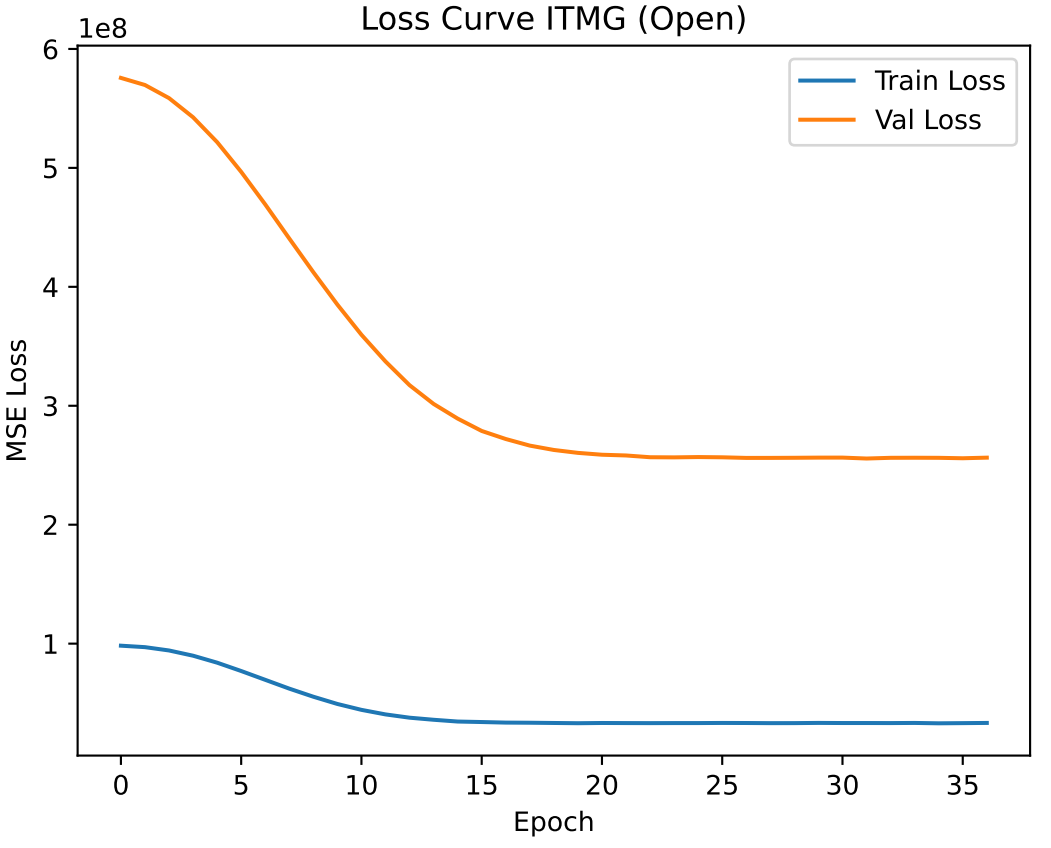
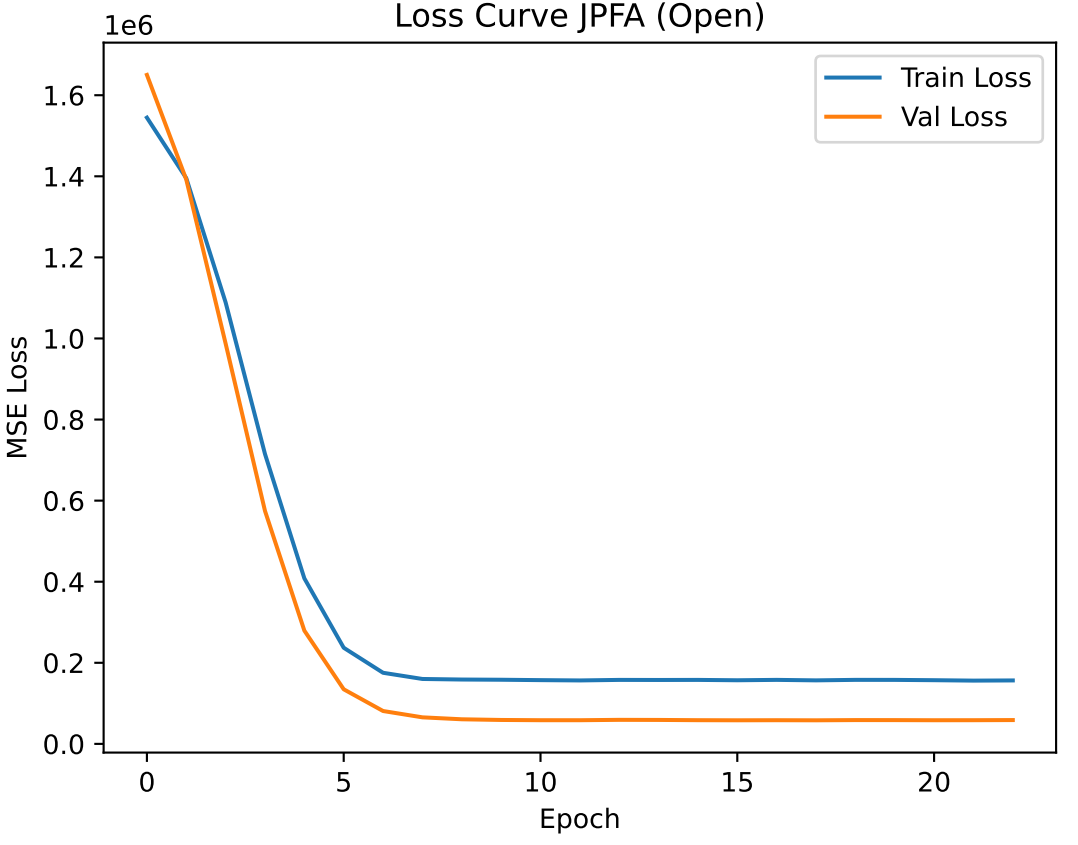
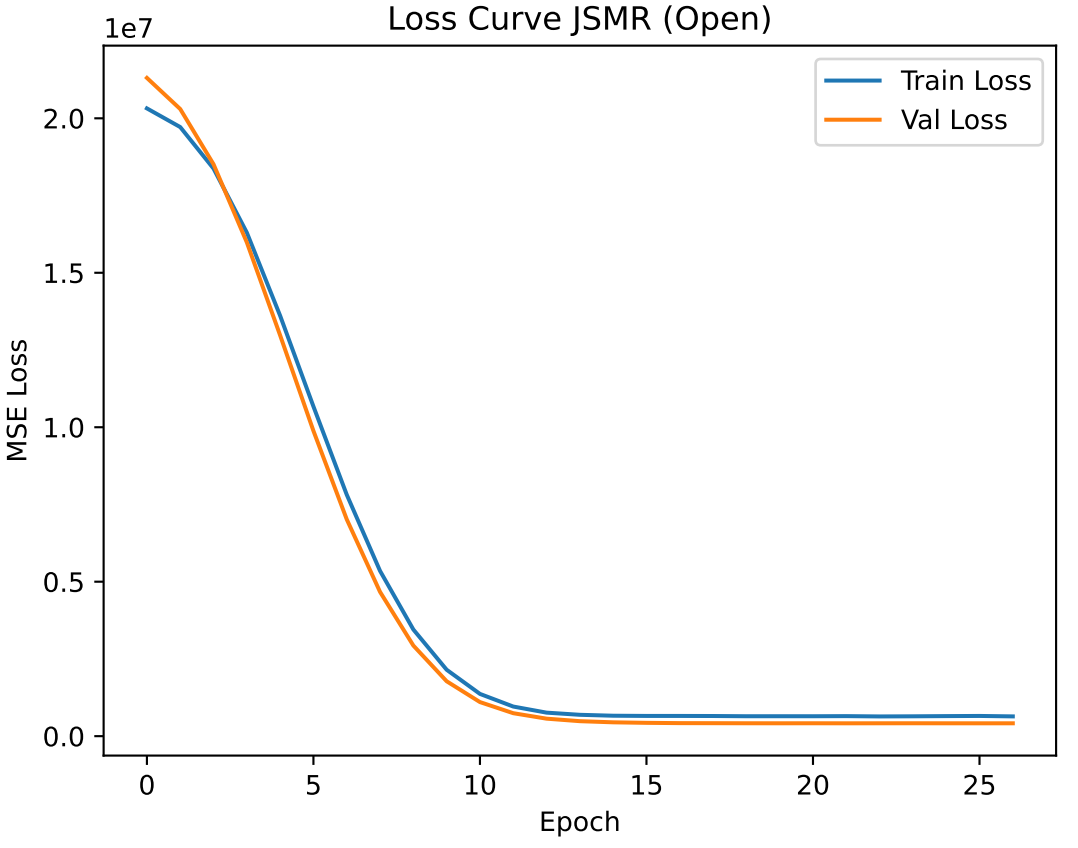
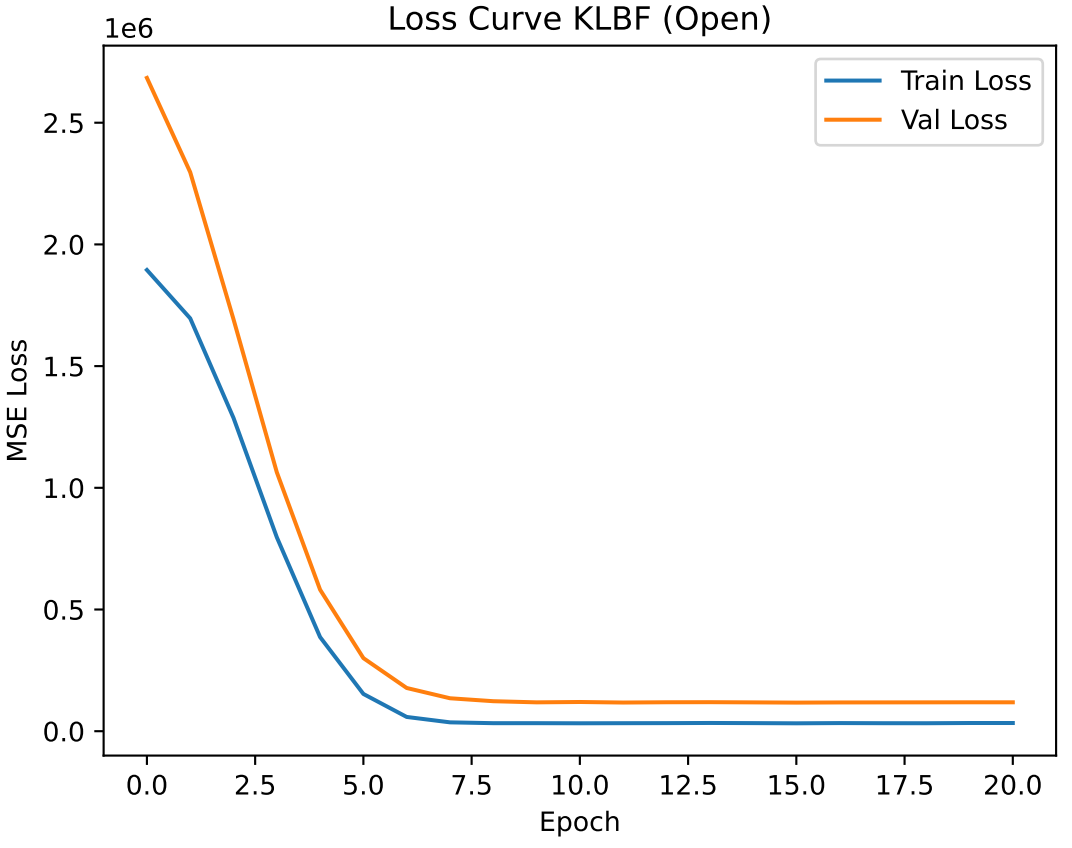
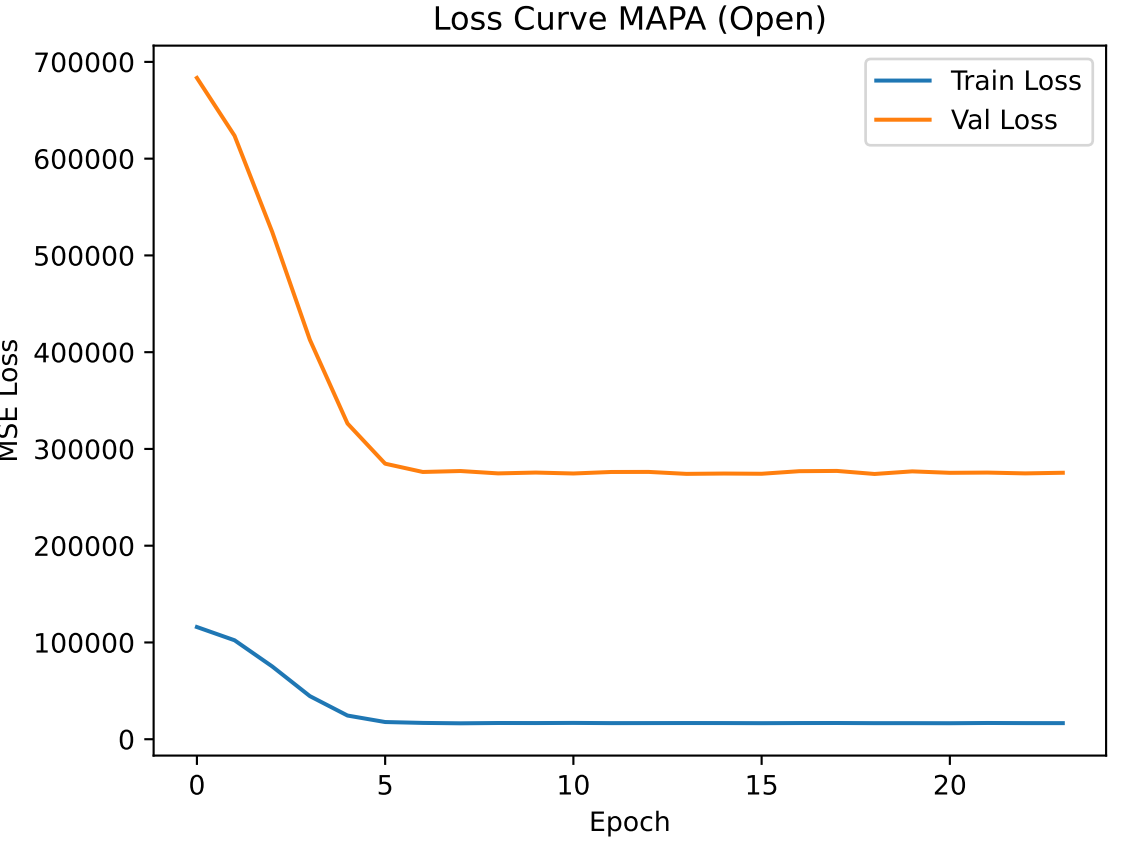
6
8
10
12
14
16

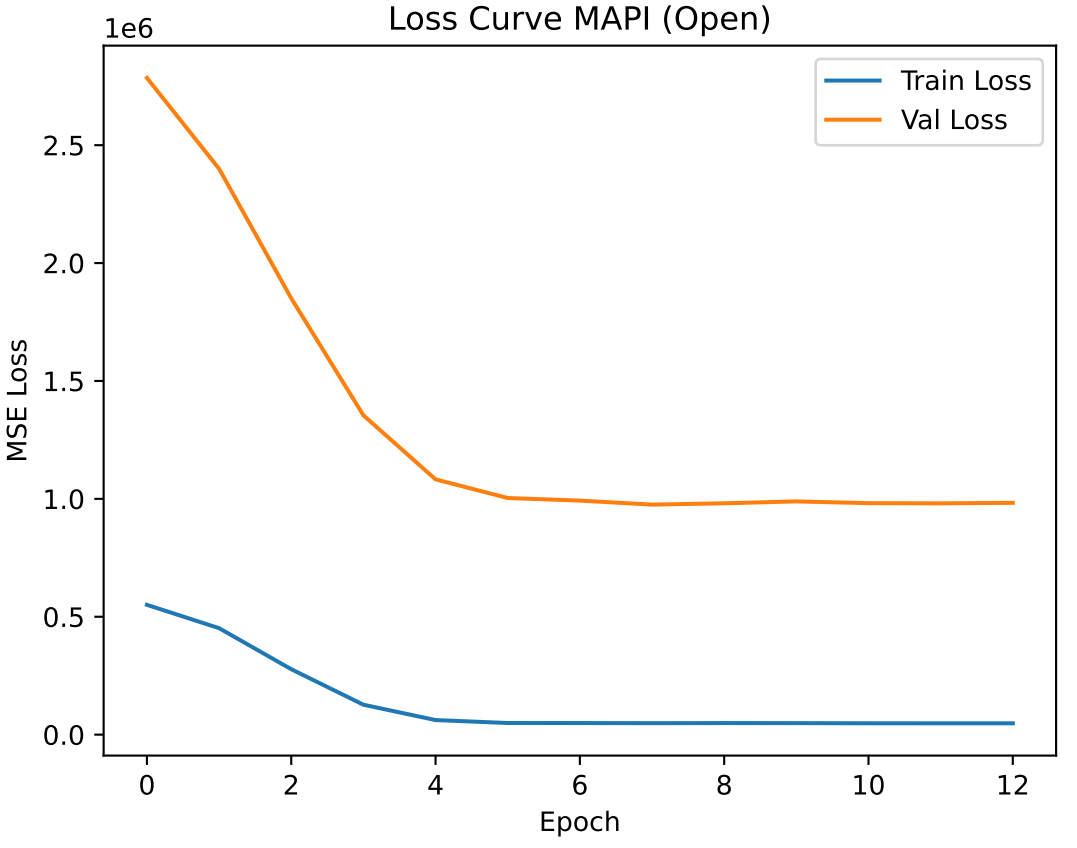

Loss Curve ITMG (Open)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

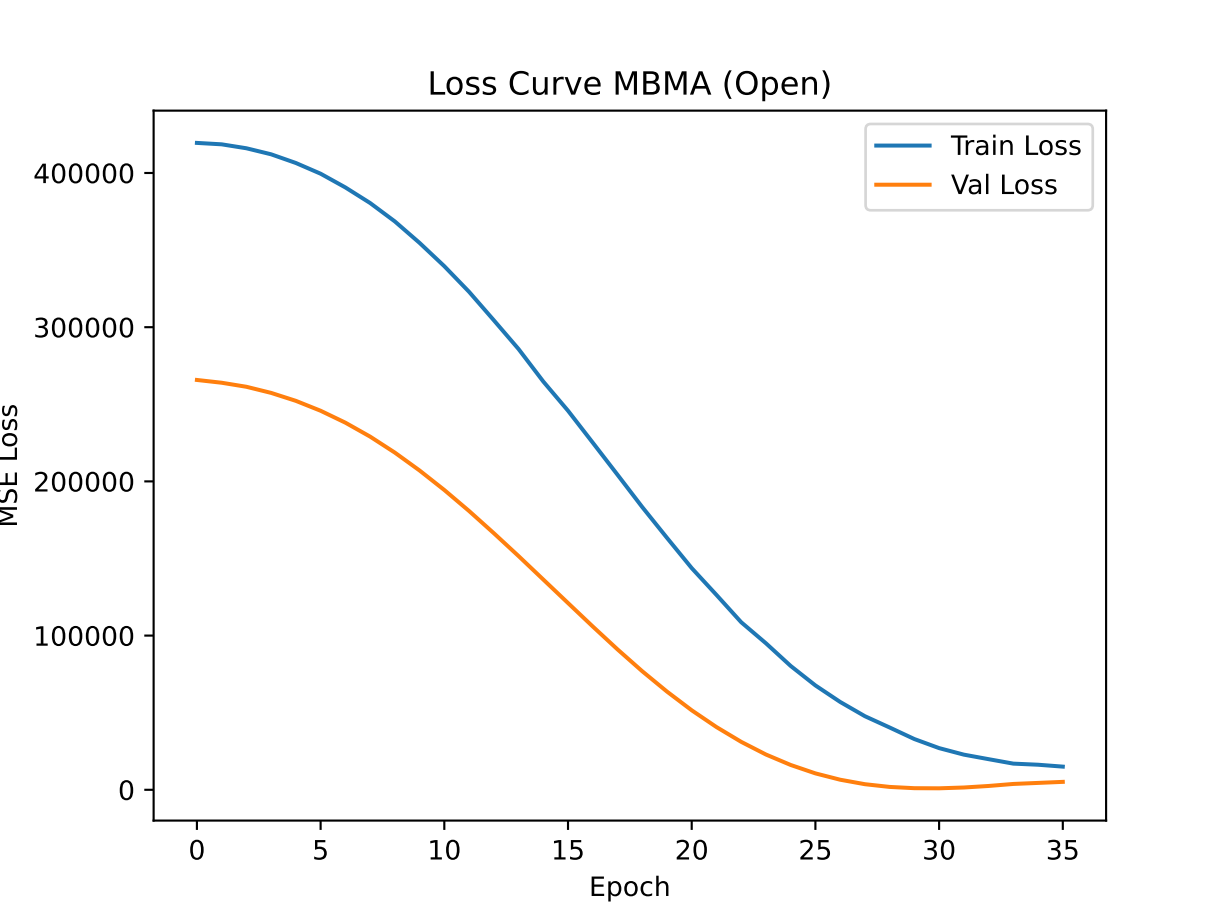

Loss Curve JPFA (Open)
1e6
Train Loss
Val Loss
MSE Loss
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
Epoch

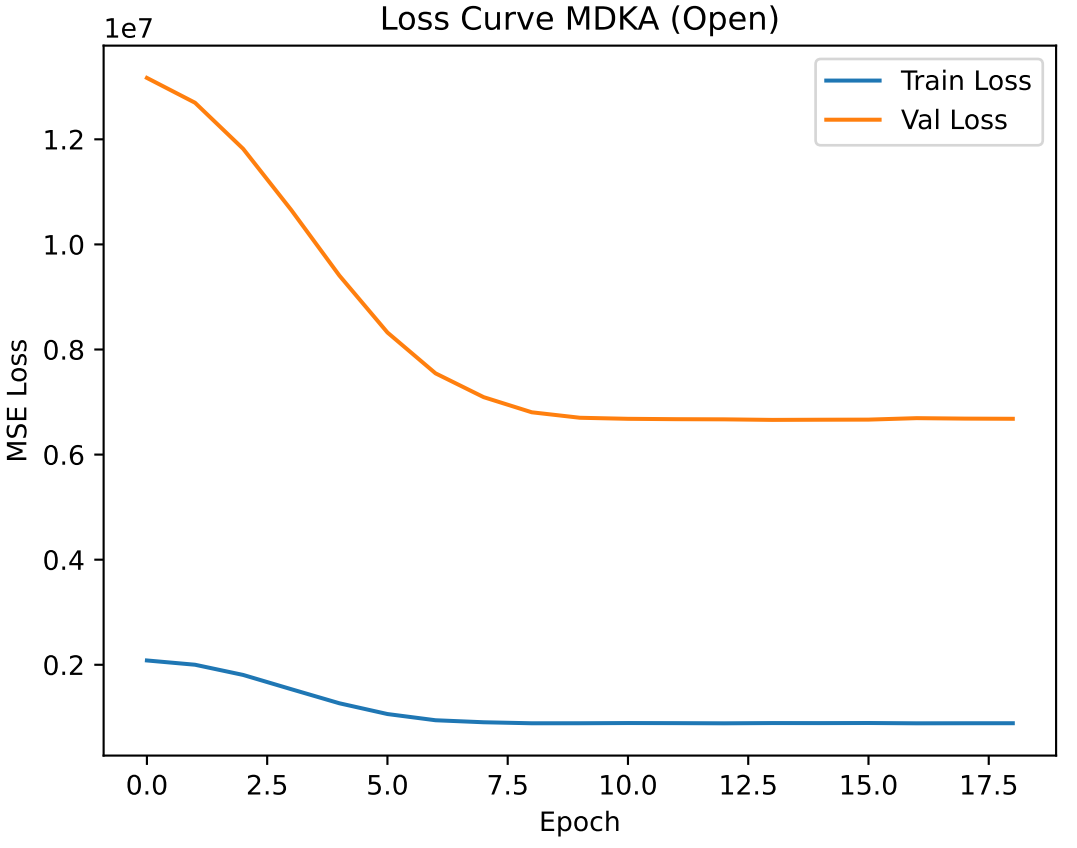

Loss Curve JSMR (Open)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

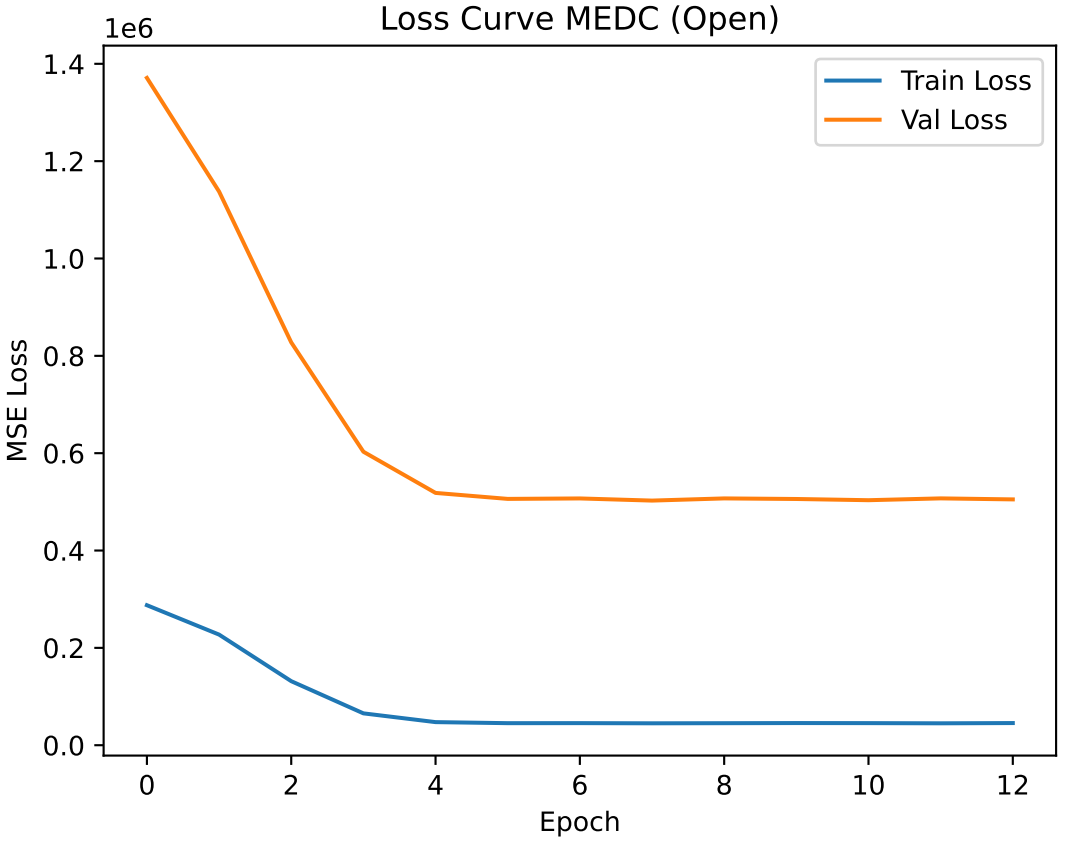

Loss Curve KLBF (Open)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

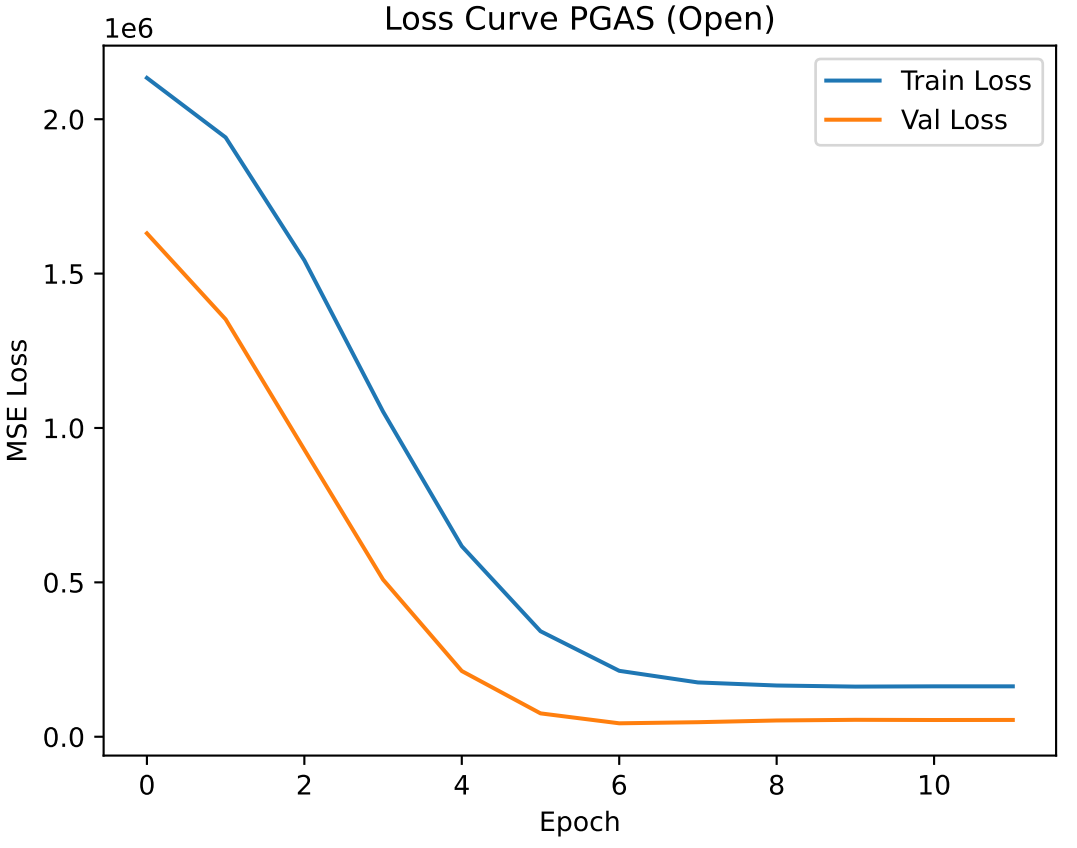

Loss Curve MAPA (Open)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
5
10
15
20

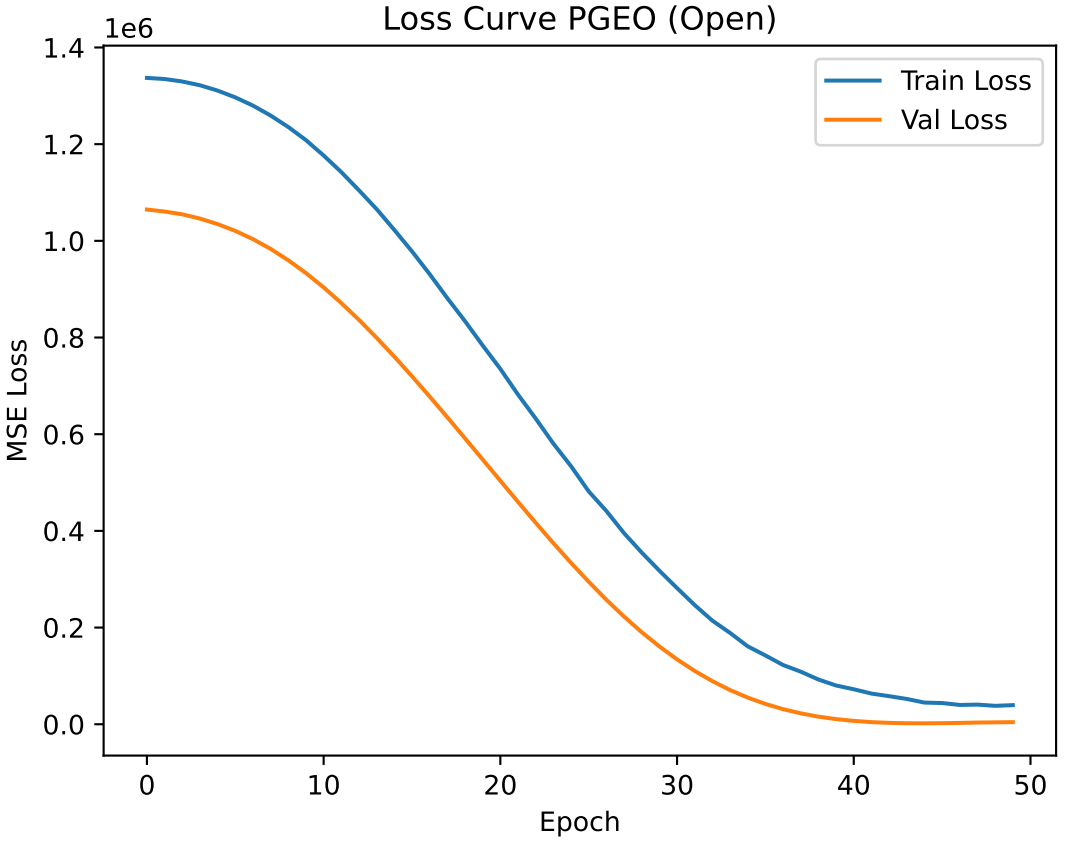

Loss Curve MAPI (Open)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch

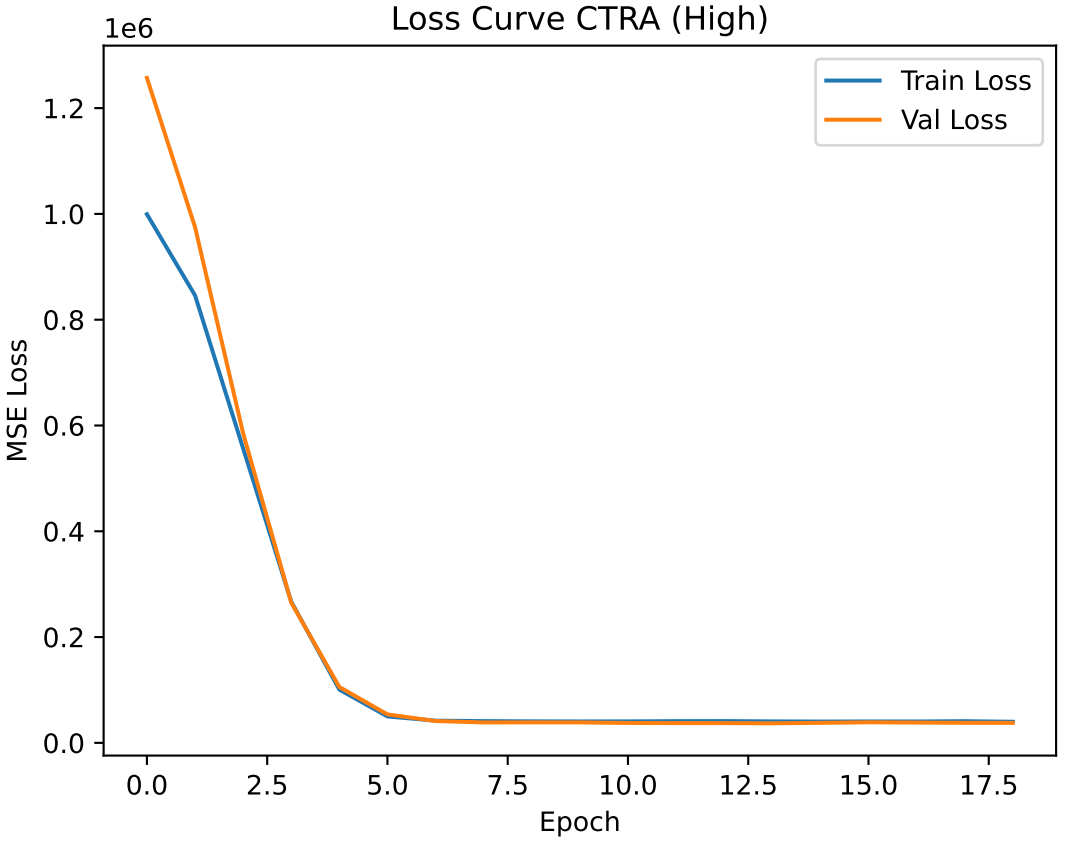

Loss Curve MBMA (Open)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

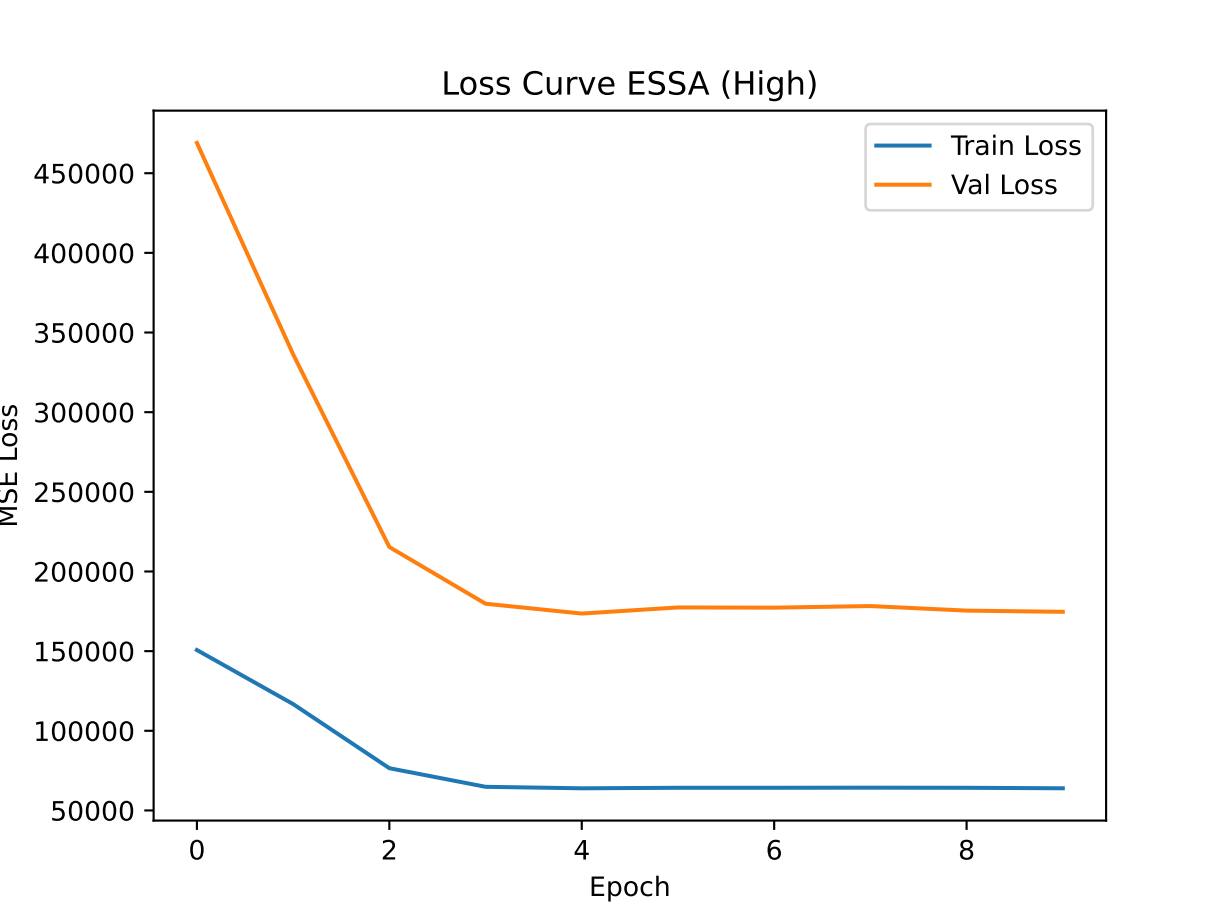

Loss Curve MDKA (Open)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch


Loss Curve MEDC (Open)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
Epoch


Loss Curve PGAS (Open)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
Epoch
Train Loss
Val Loss


Loss Curve PGEO (Open)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch


Loss Curve CTRA (High)
1e6
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch


Loss Curve ESSA (High)
Train Loss
Val Loss
MSE Loss
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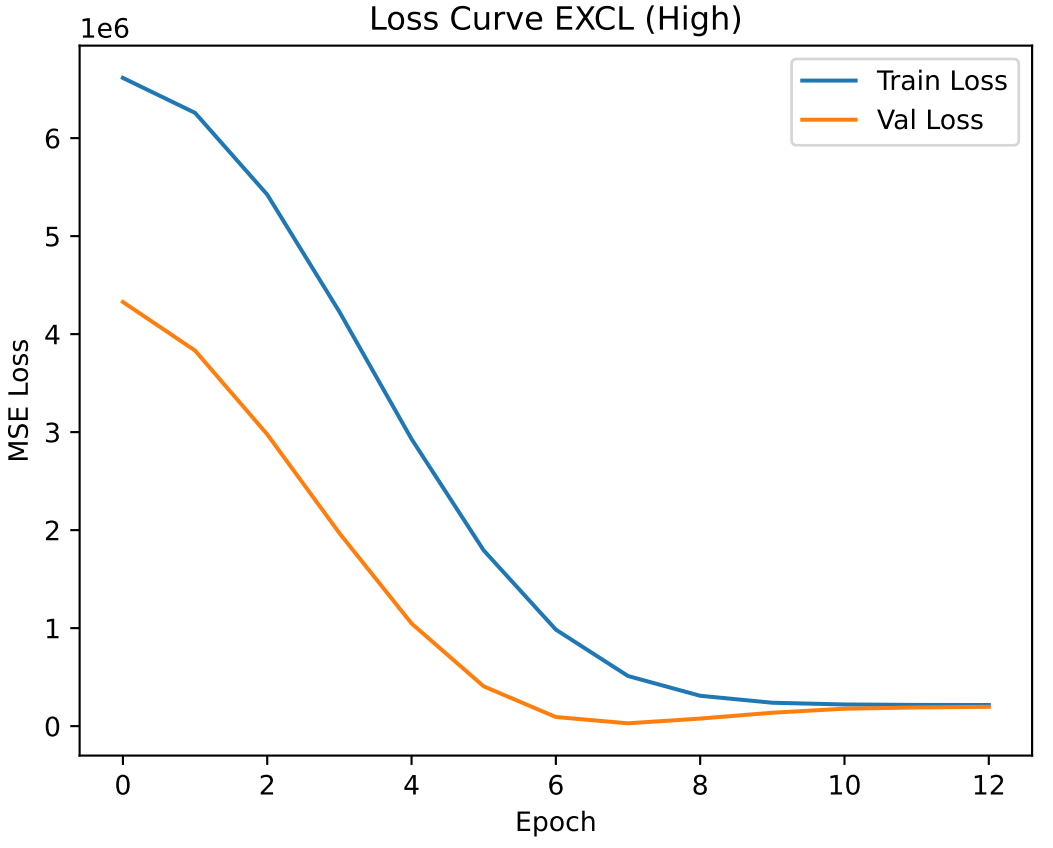
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8
Epoch


Loss Curve EXCL (High)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
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6
0
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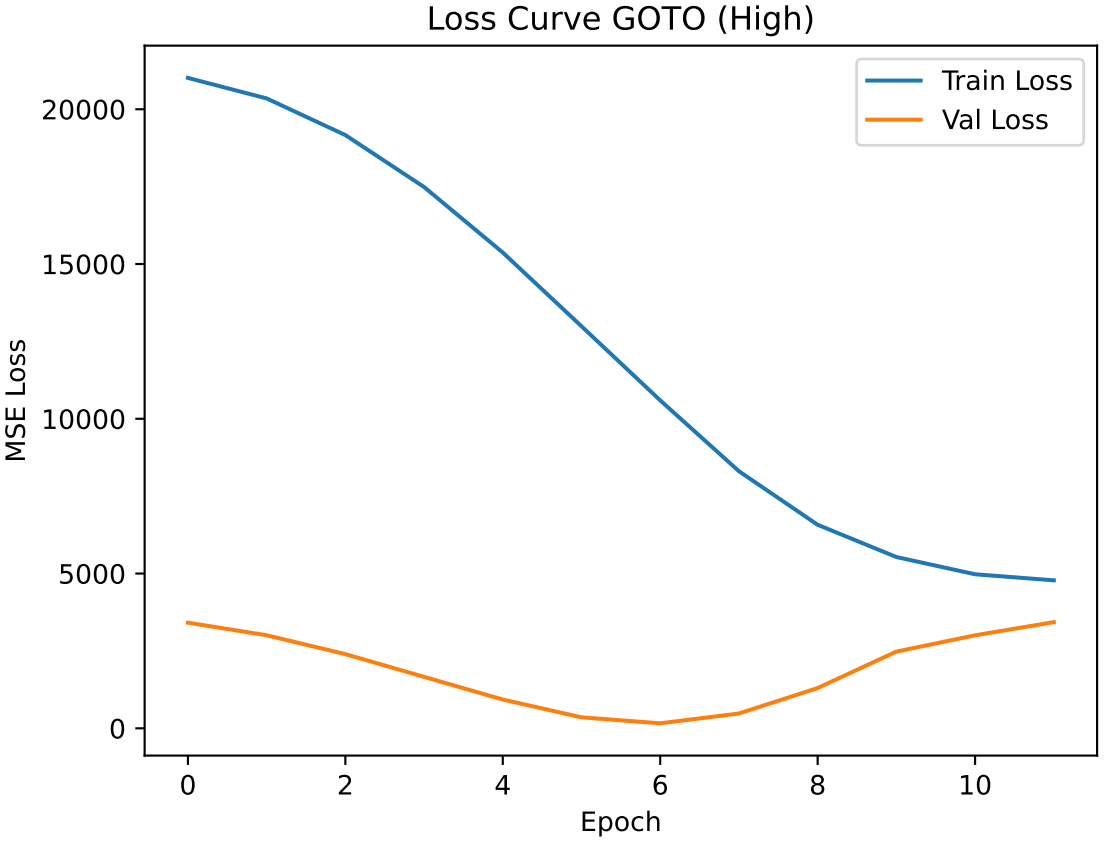
6
8
10
12


Loss Curve GOTO (High)
Train Loss
Val Loss
MSE Loss
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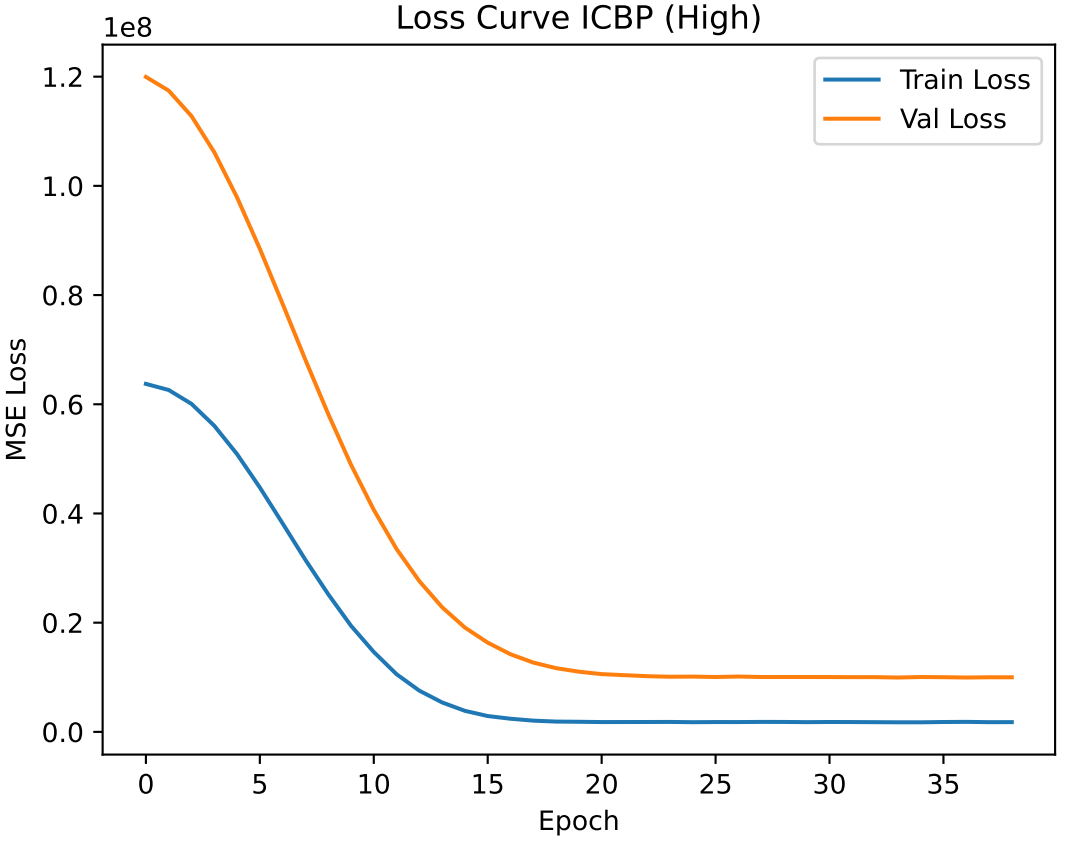
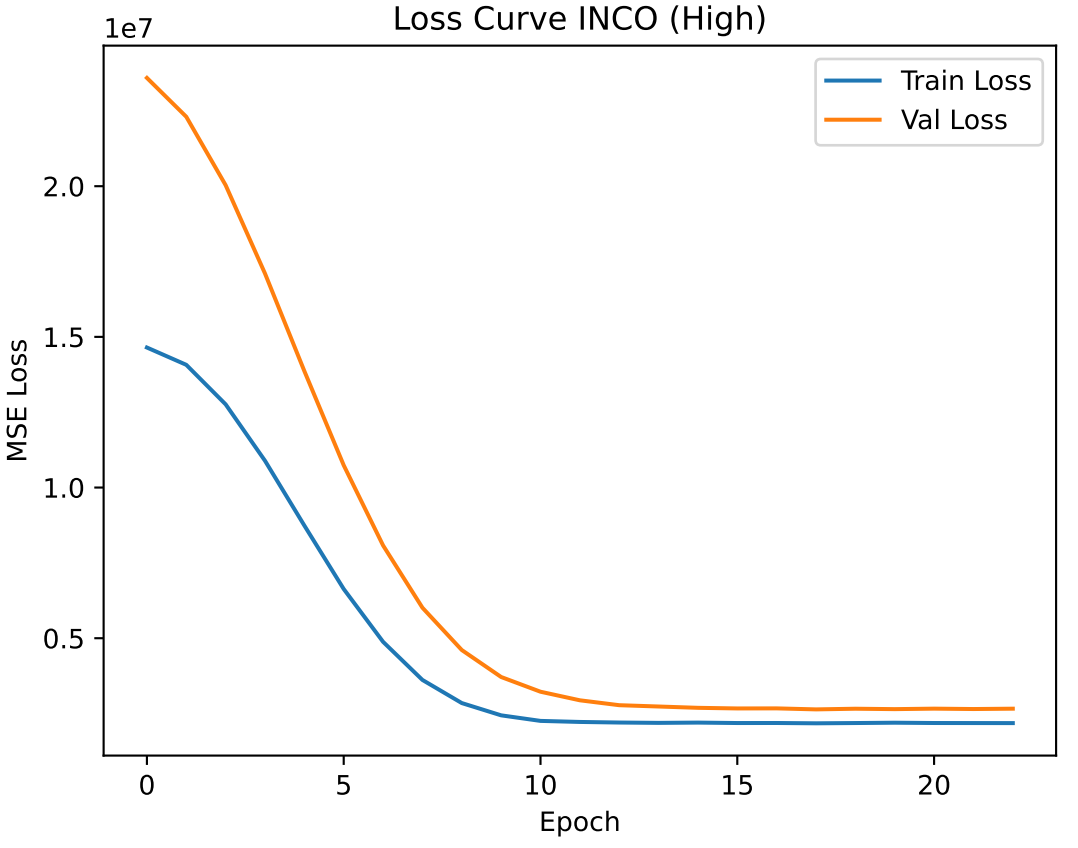
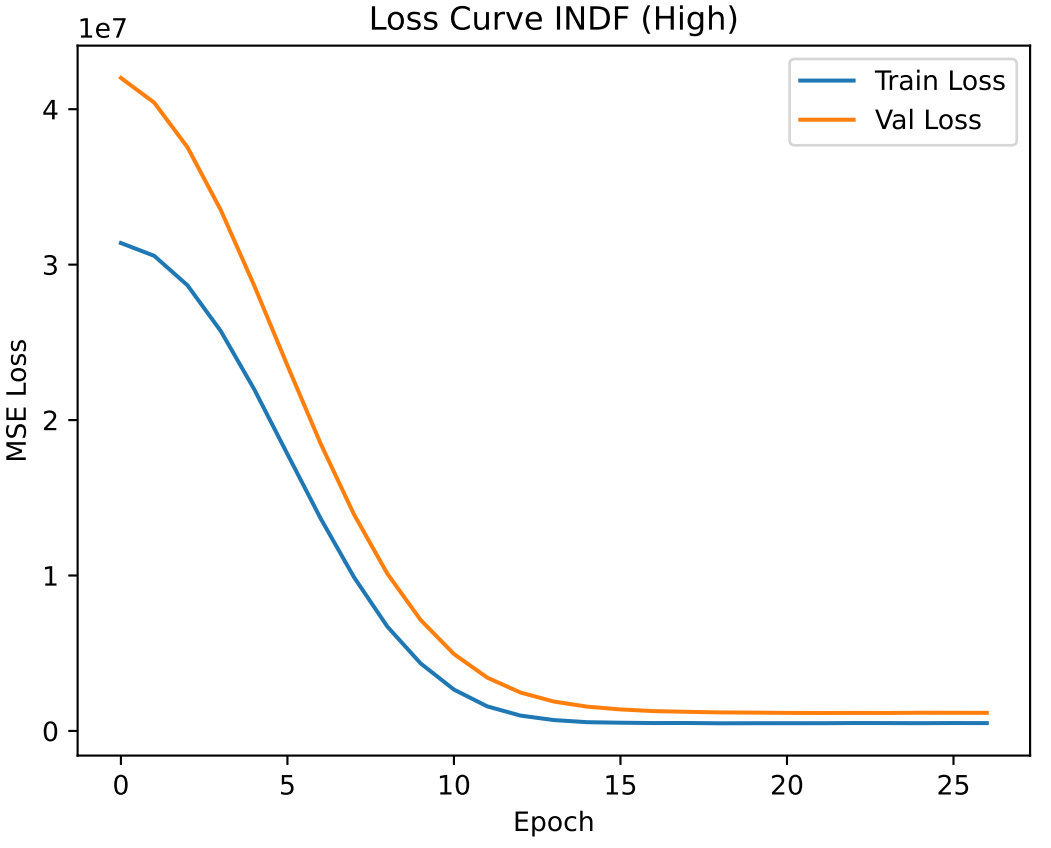
15000
10000
5000
0
0
2
4
6
8
10
Epoch


Loss Curve ICBP (High)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch


Loss Curve INCO (High)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
Epoch


Loss Curve INDF (High)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
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2
3
4
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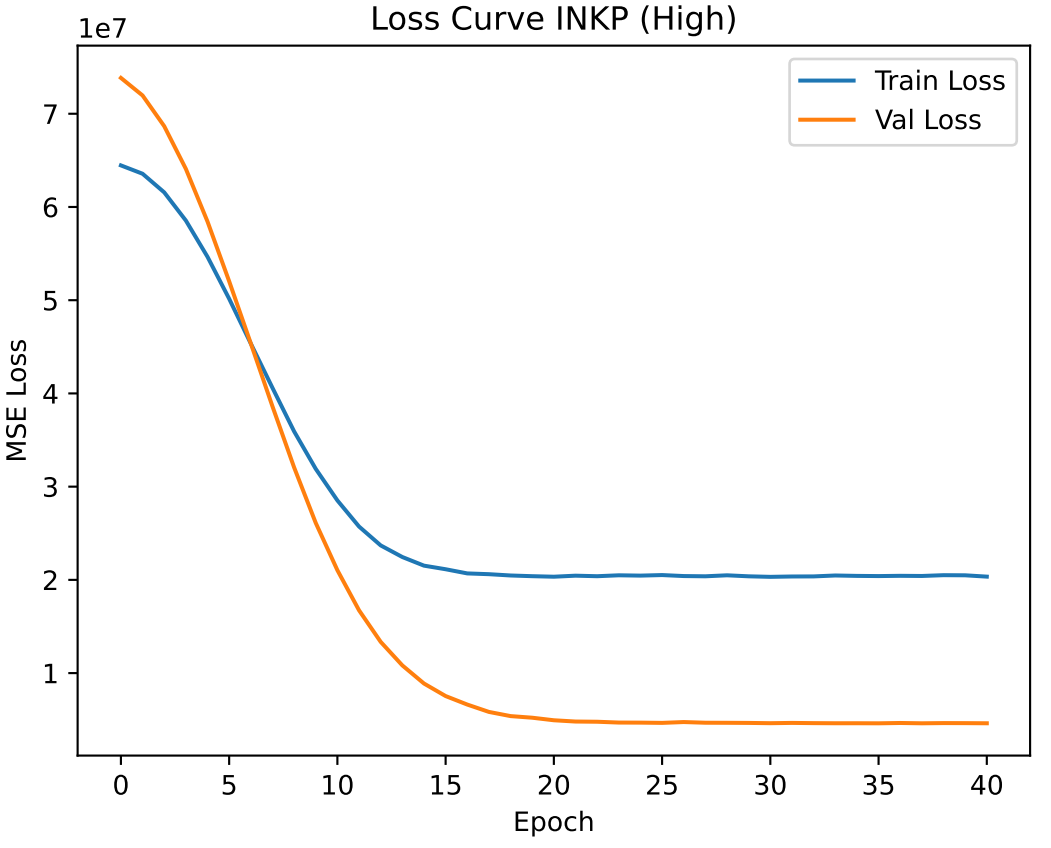
10
15
20
25


Loss Curve INKP (High)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
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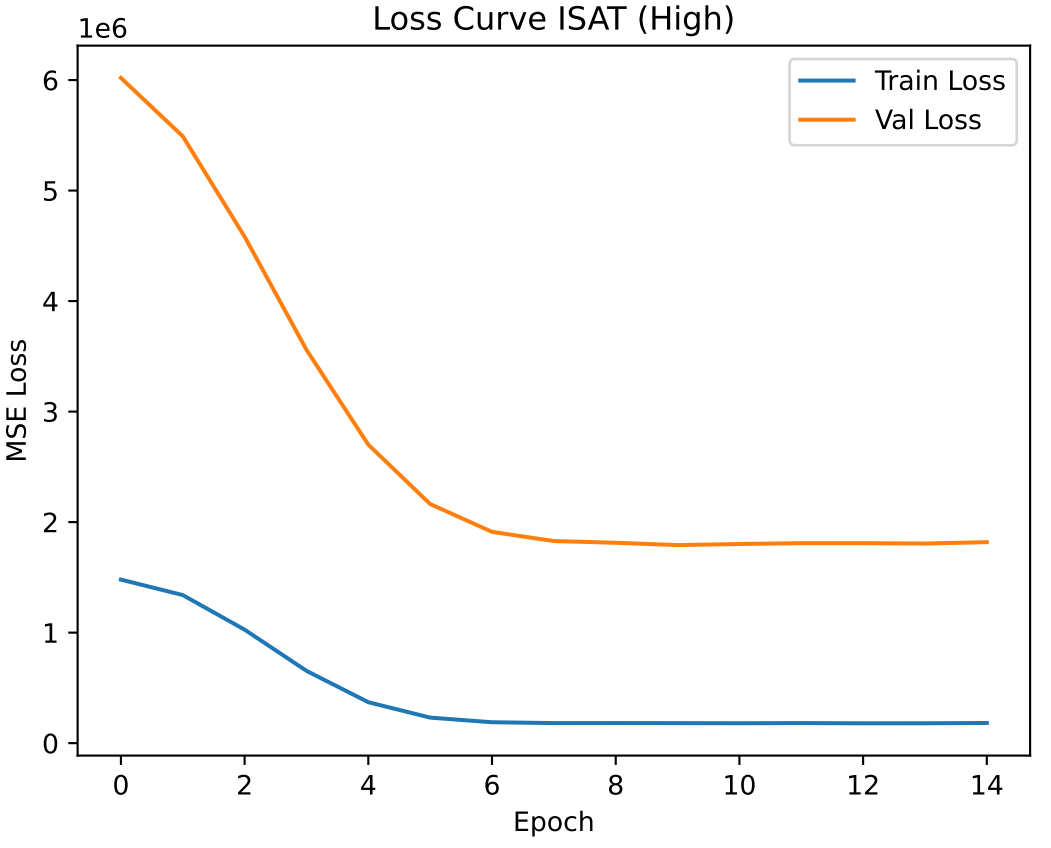
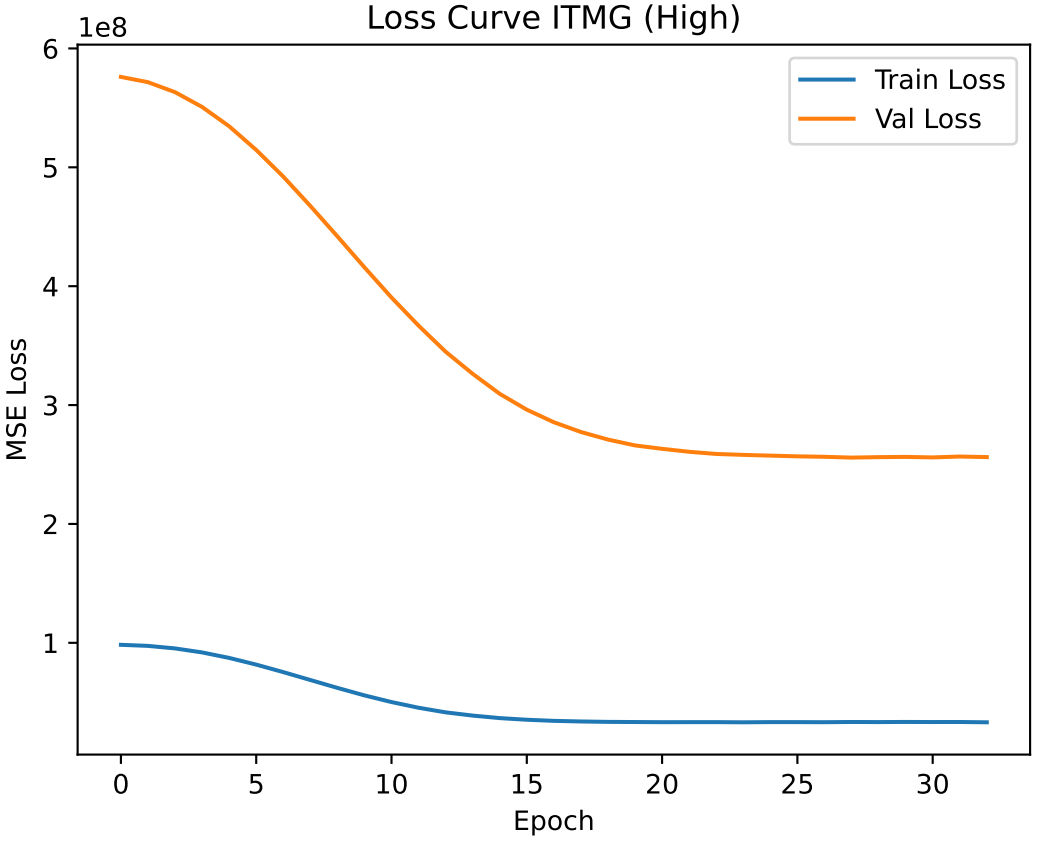
7


Loss Curve ISAT (High)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14


Loss Curve ITMG (High)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
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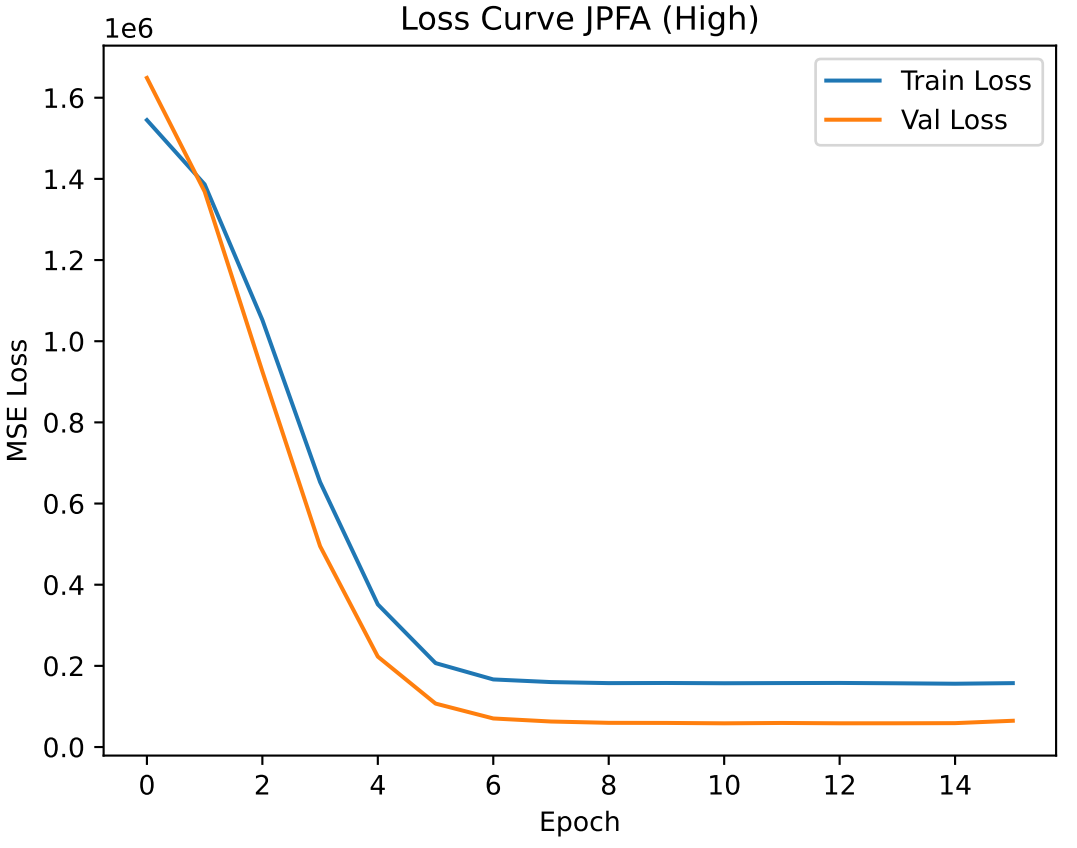
20
25
30
Epoch


Loss Curve JPFA (High)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
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8
10
12
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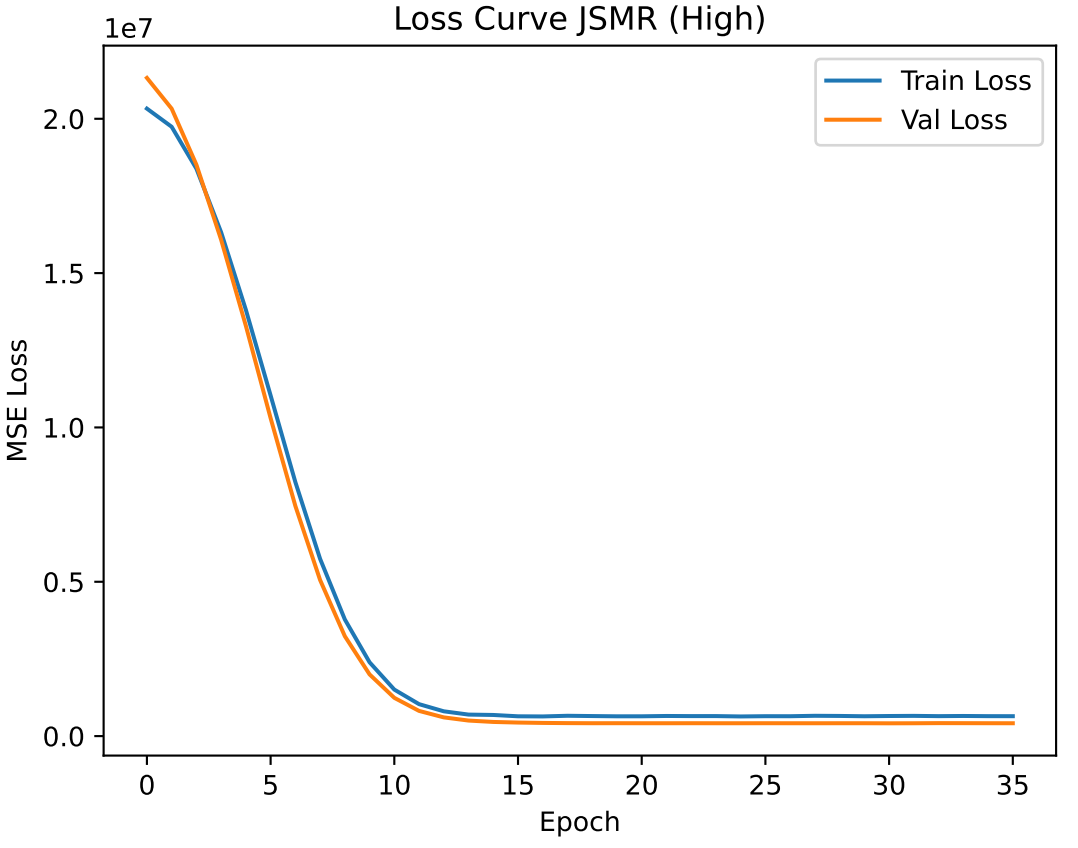
Loss Curve JSMR (High)
1e7
Train Loss
Val Loss
MSE Loss
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1.5
1.0
0.5
0.0
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5
10
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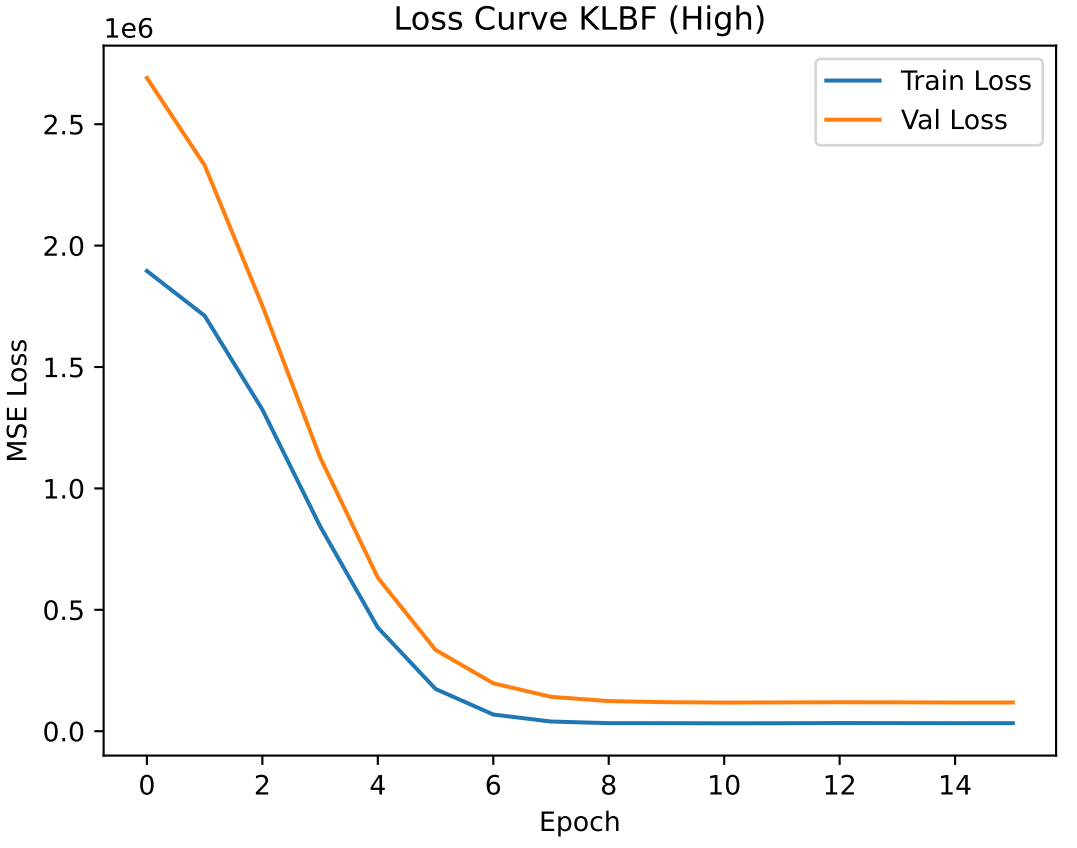
20
25
30
35
Epoch


Loss Curve KLBF (High)
1e6
Train Loss
Val Loss
MSE Loss
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1.5
1.0
0.5
0.0
0
2
4
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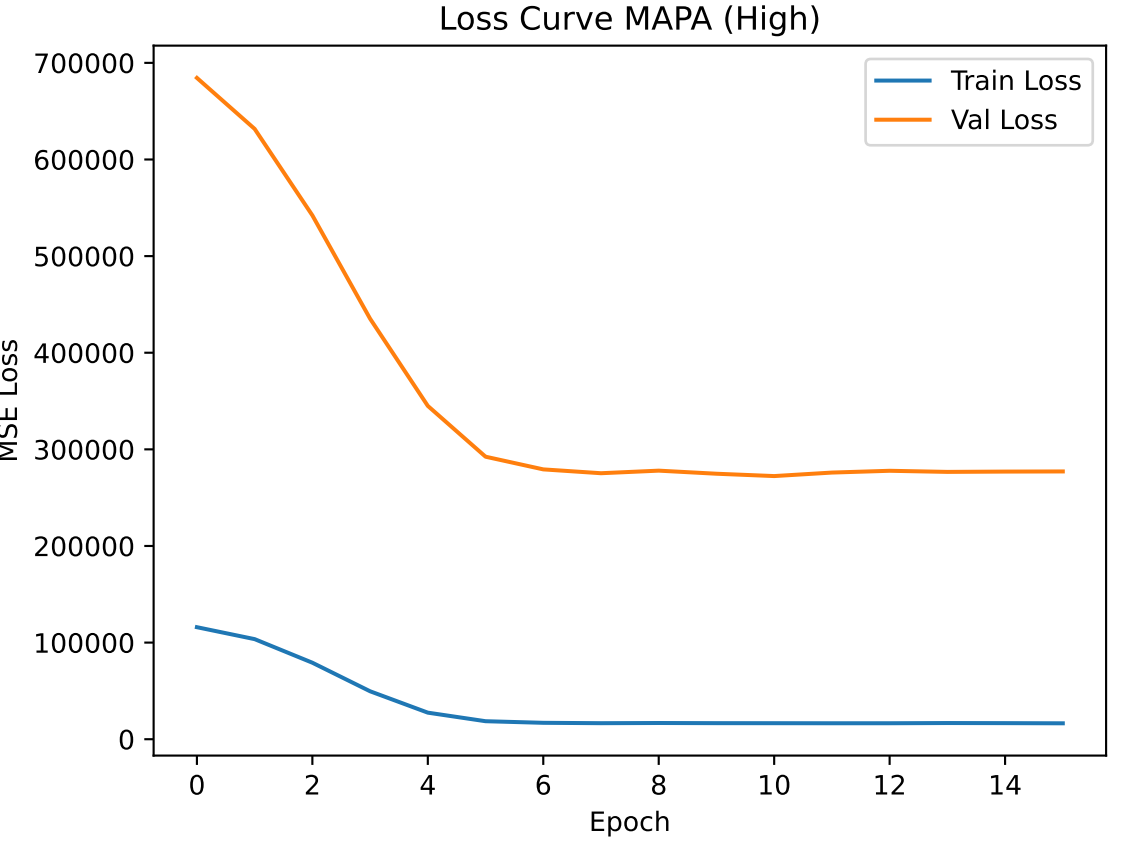
8
10
12
14
Epoch


Loss Curve MAPA (High)
Train Loss
Val Loss
MSE Loss
Epoch
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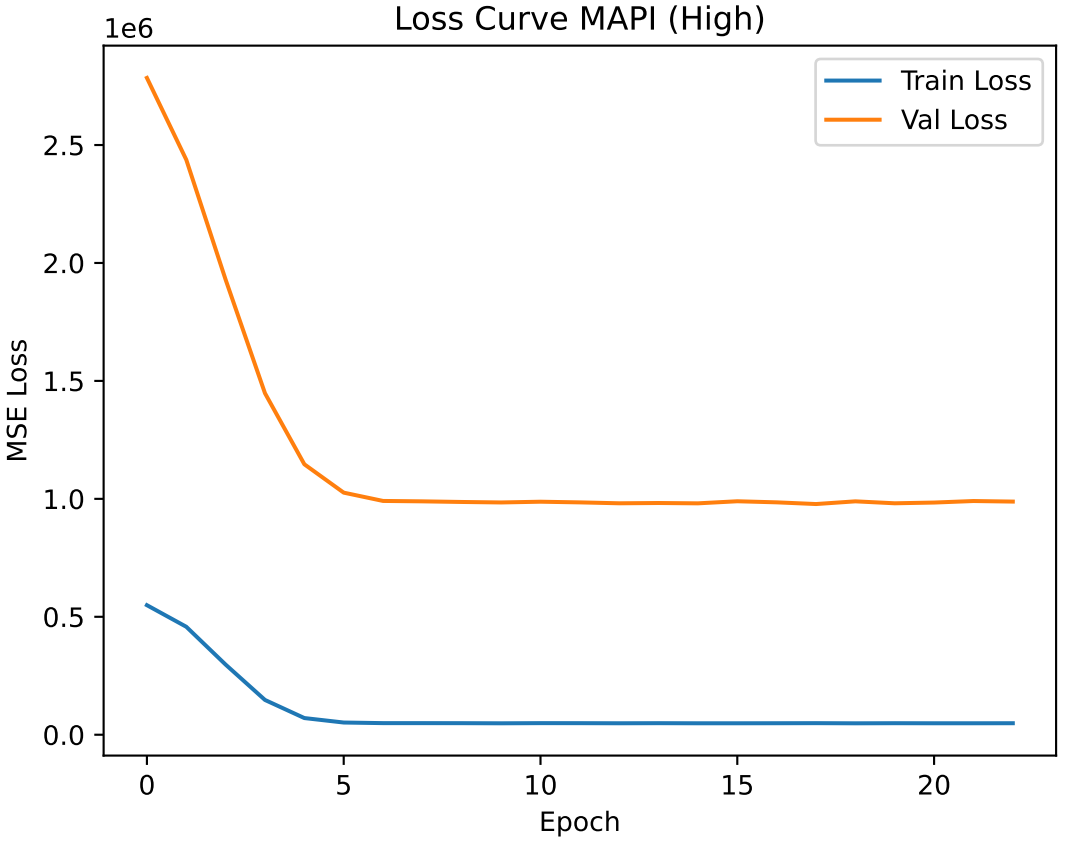
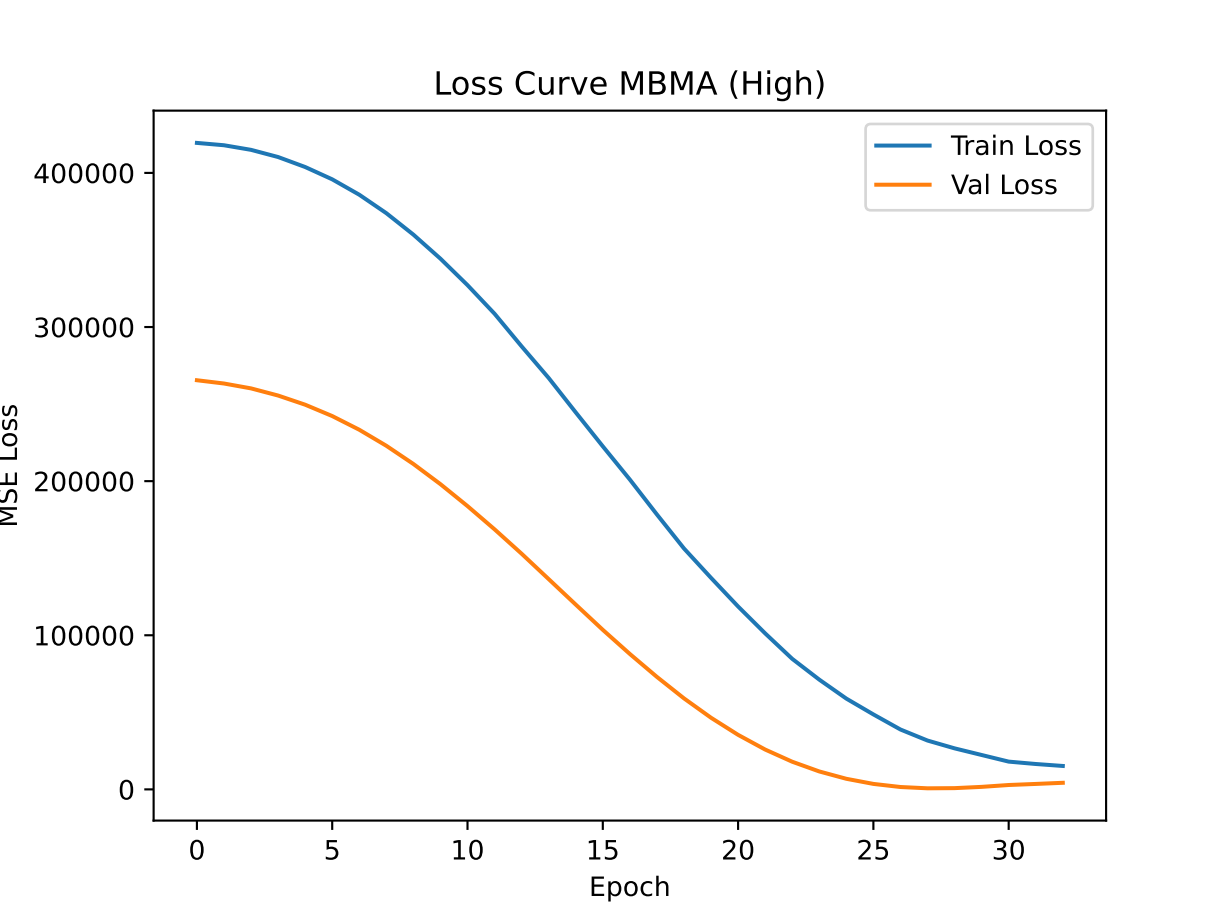
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14


Loss Curve MAPI (High)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
Epoch


Loss Curve MBMA (High)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
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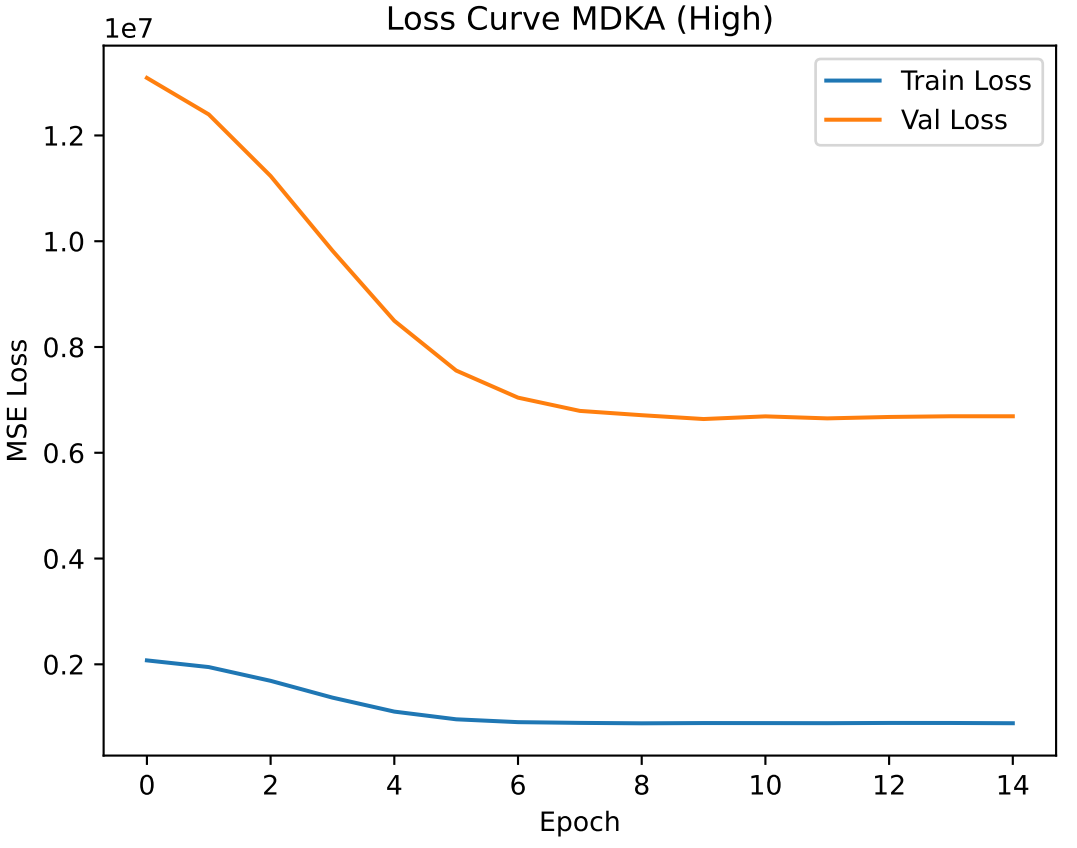
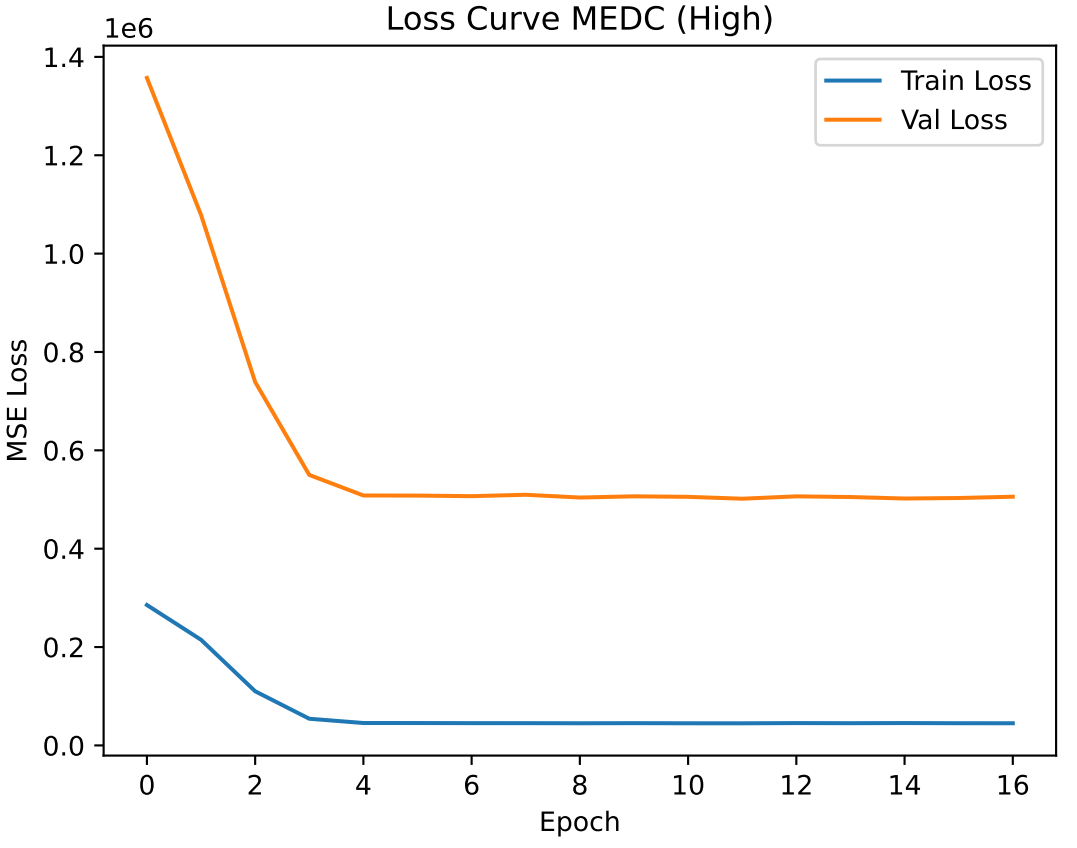
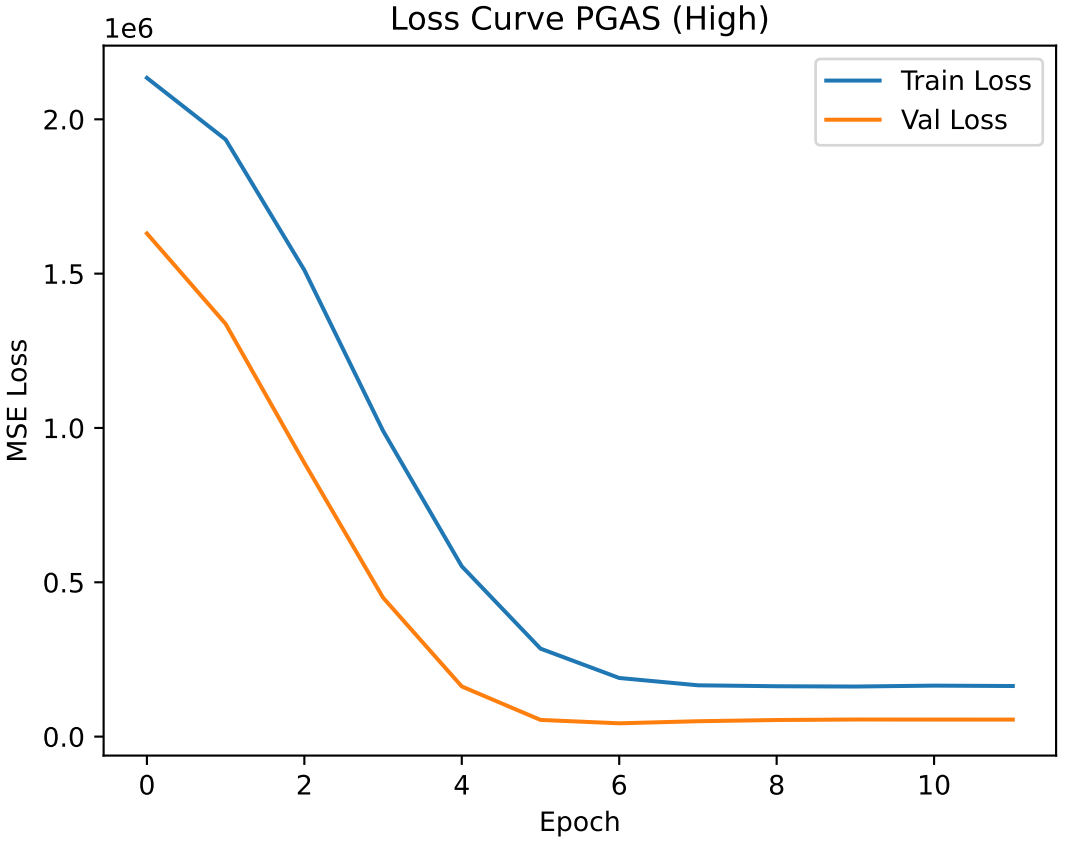
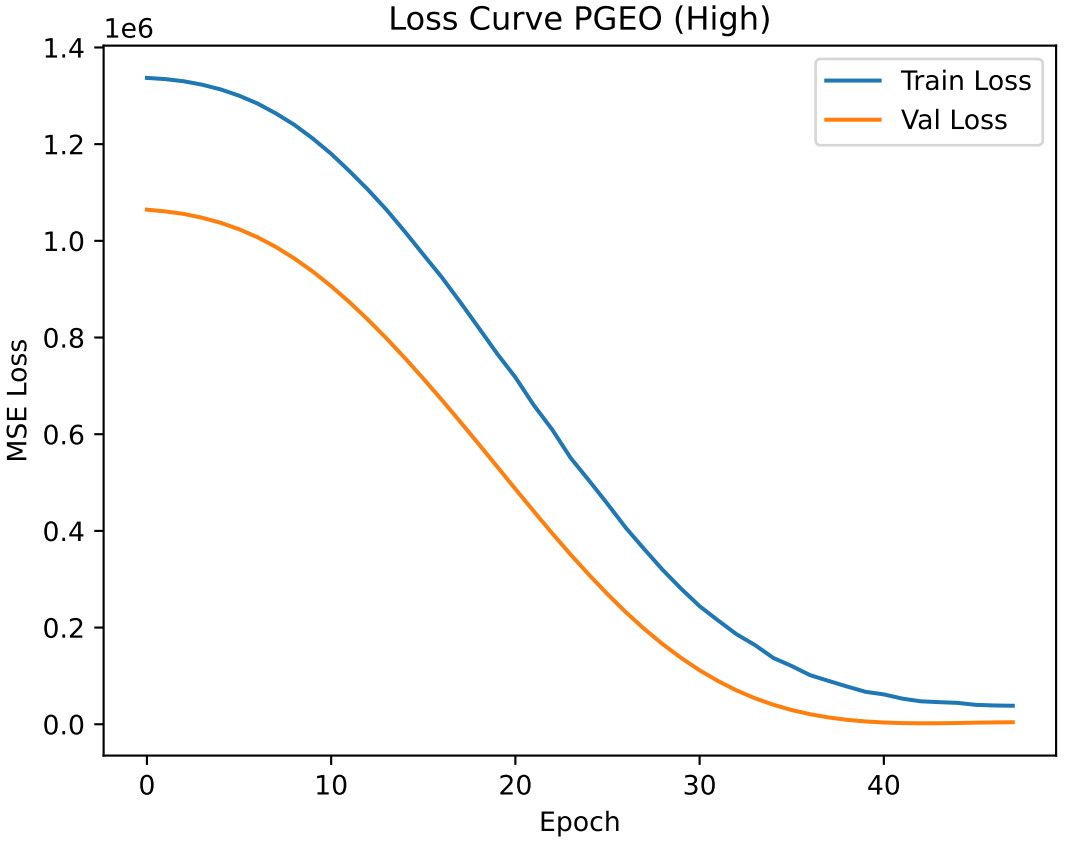
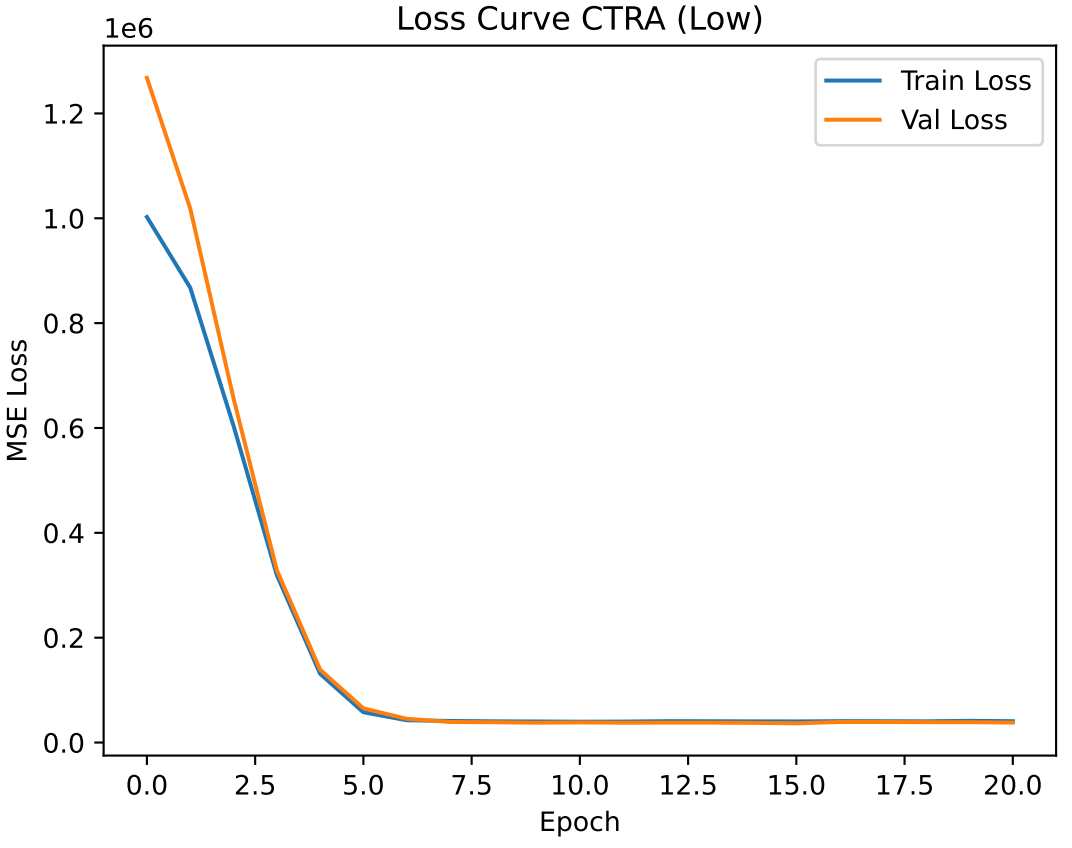
20
25
30
Epoch

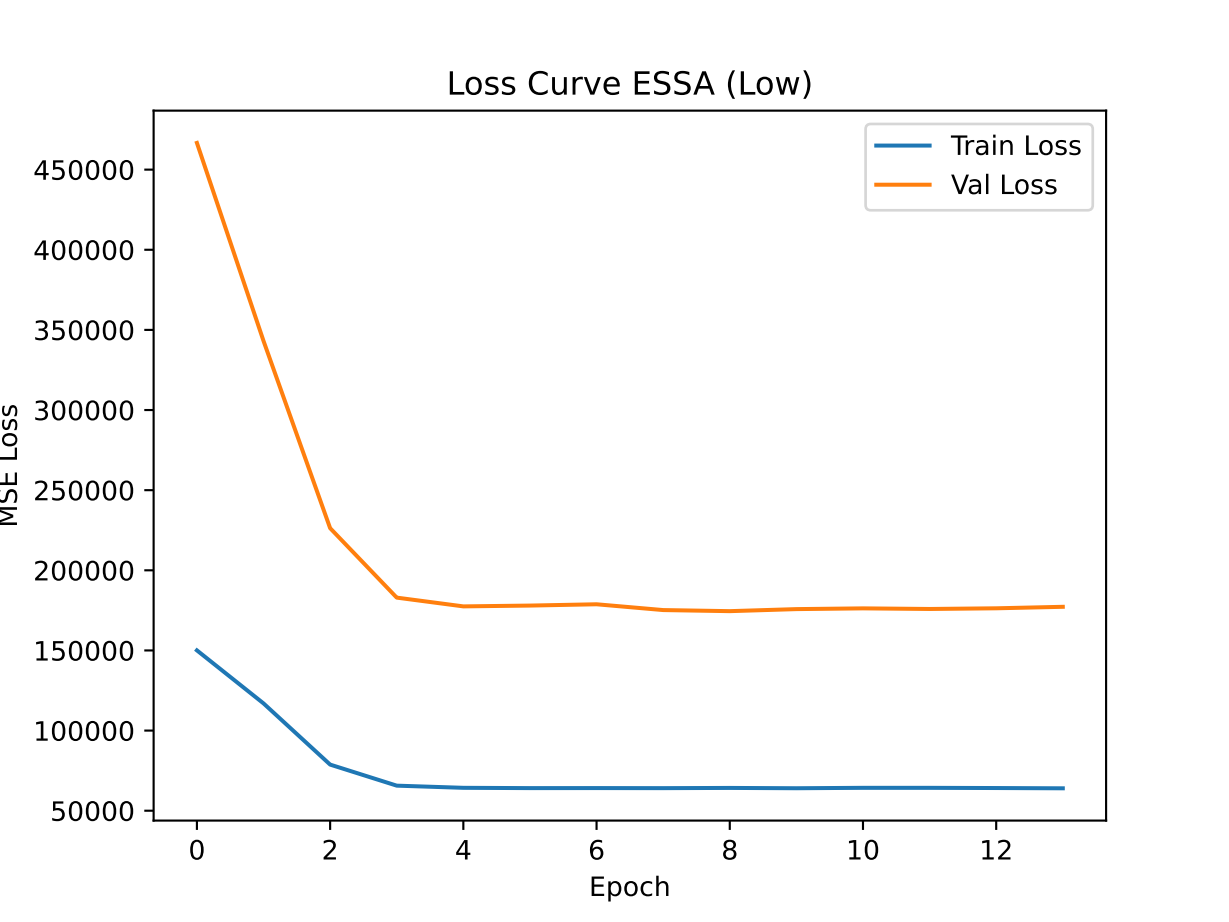

Loss Curve MDKA (High)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0
2
4
6
8
10
12
14
Epoch

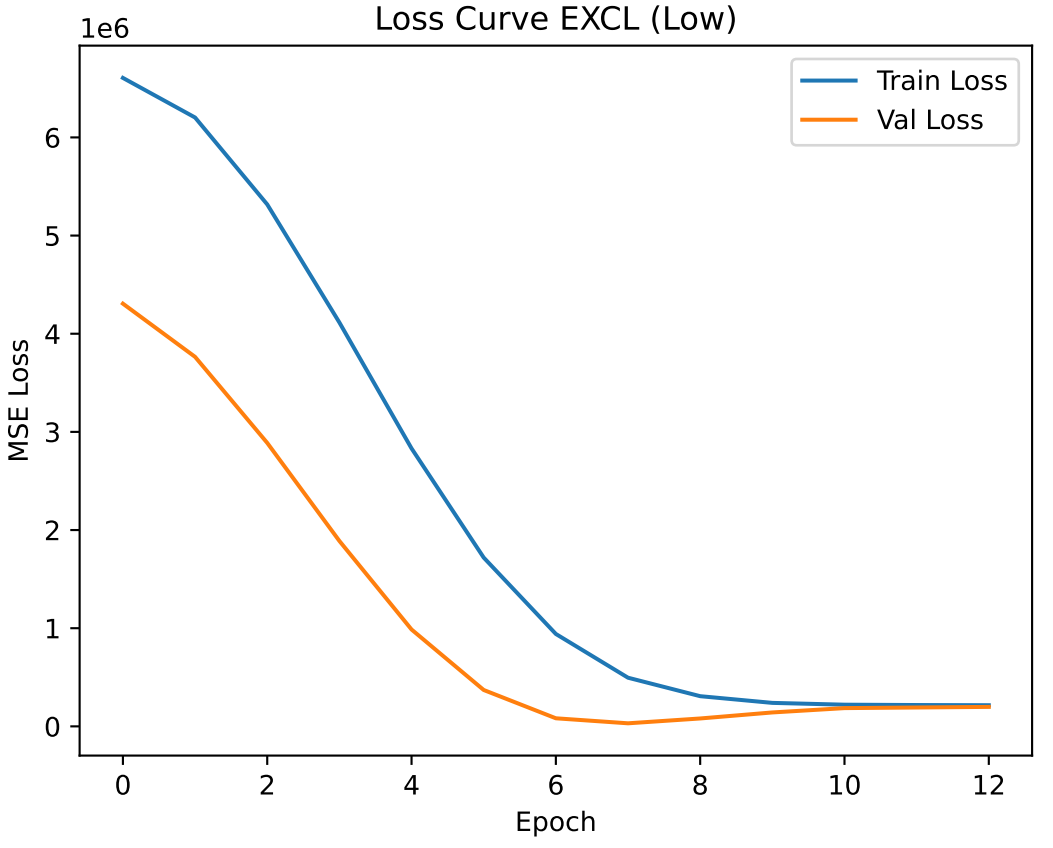

Loss Curve MEDC (High)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
14
16
Epoch

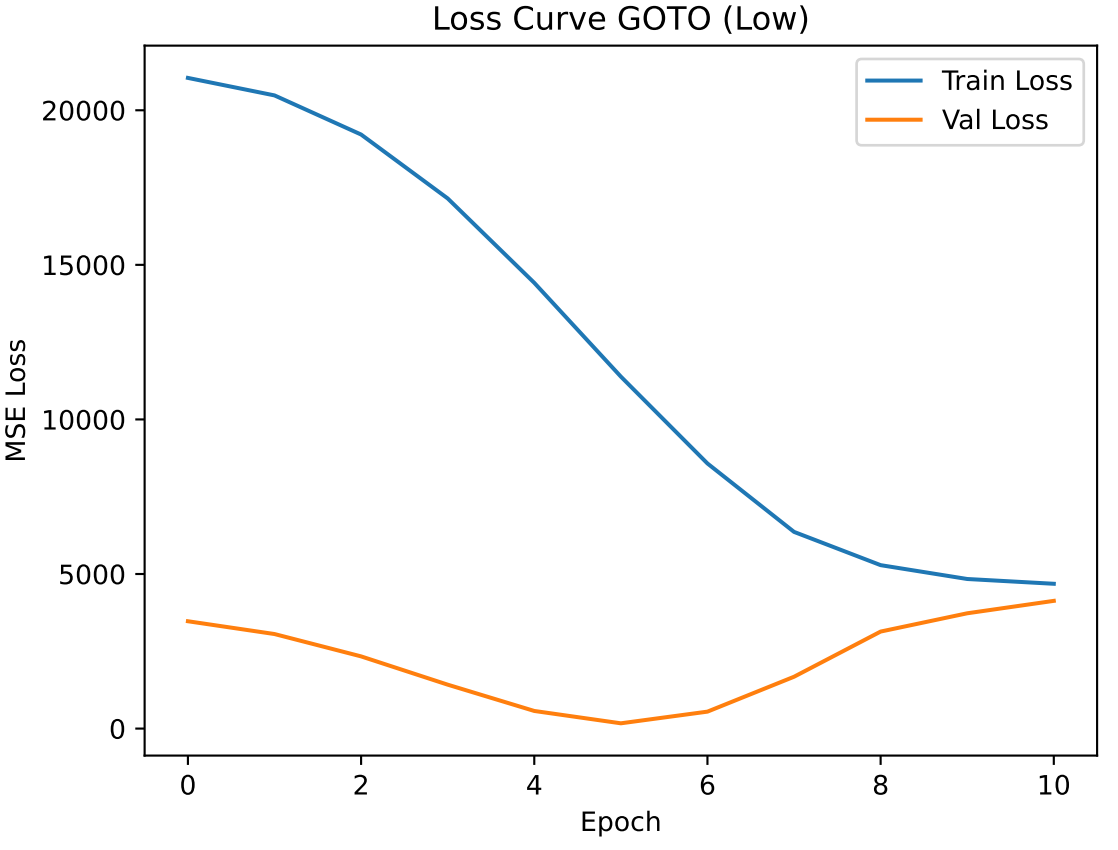

Loss Curve PGAS (High)
1e6
Train Loss
Val Loss
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
Epoch

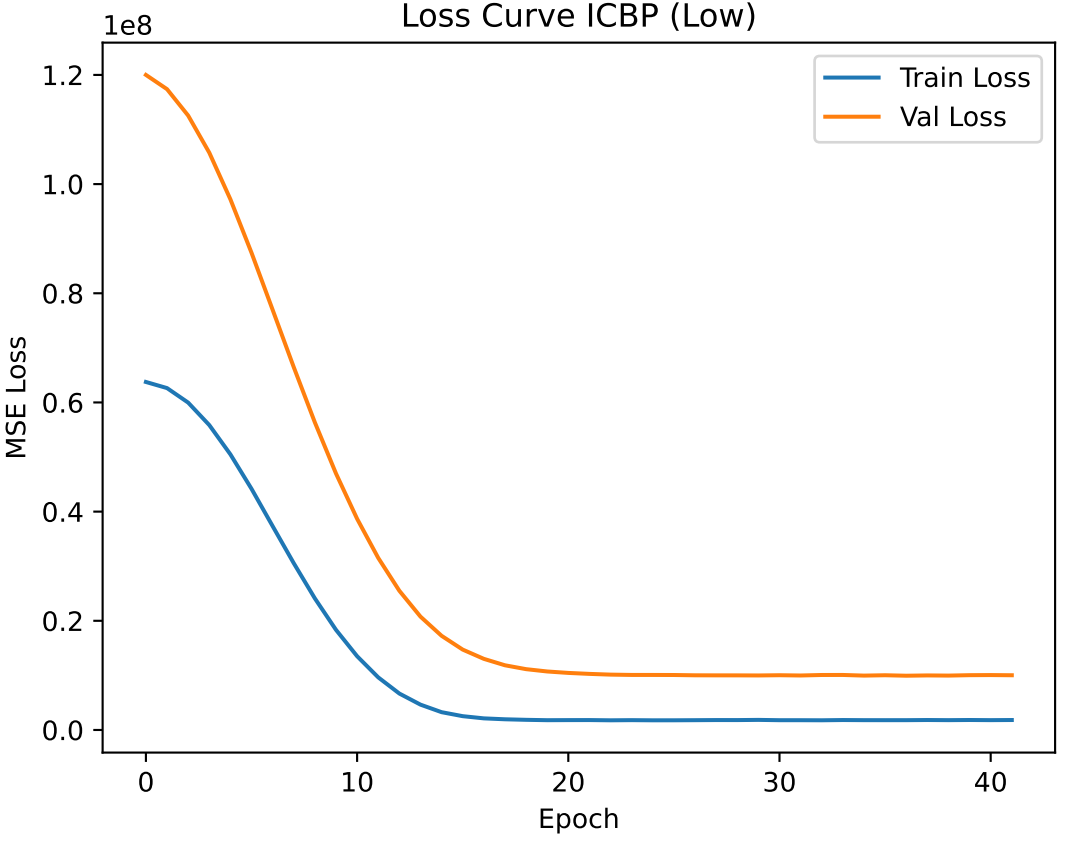

Loss Curve PGEO (High)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
10
20
30
40
Epoch
Train Loss
Val Loss

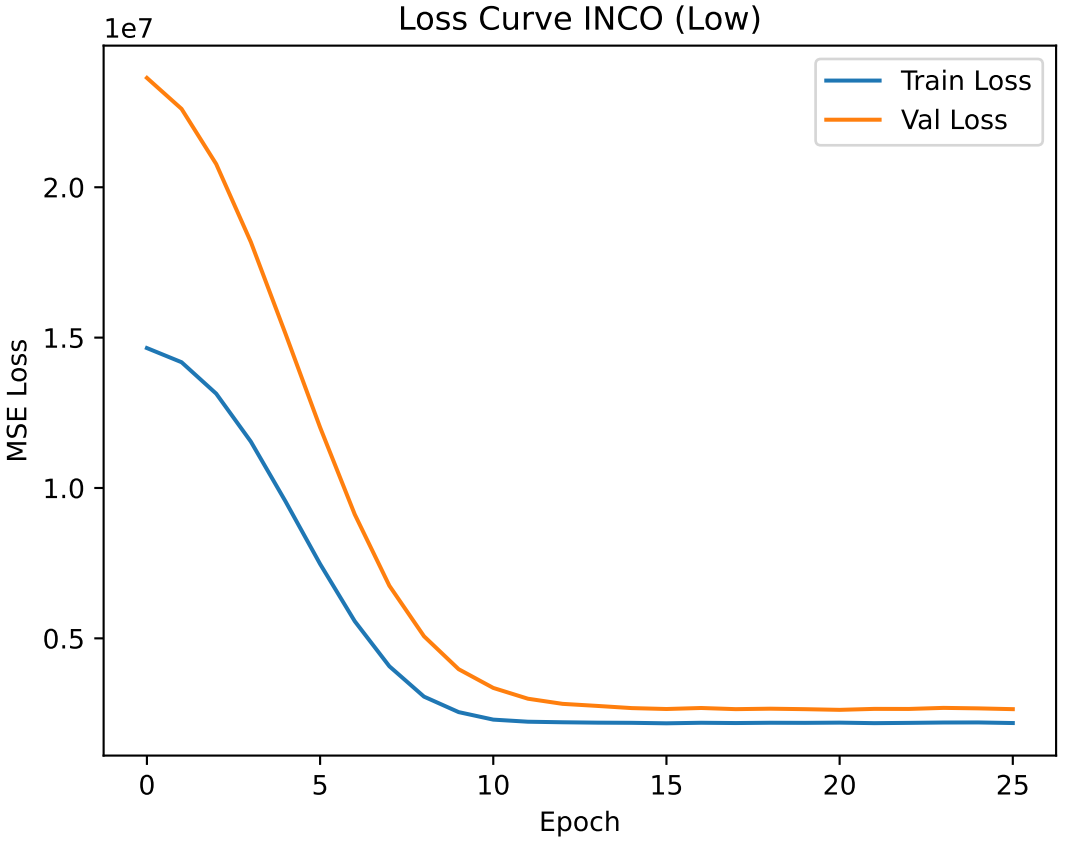

Loss Curve CTRA (Low)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0

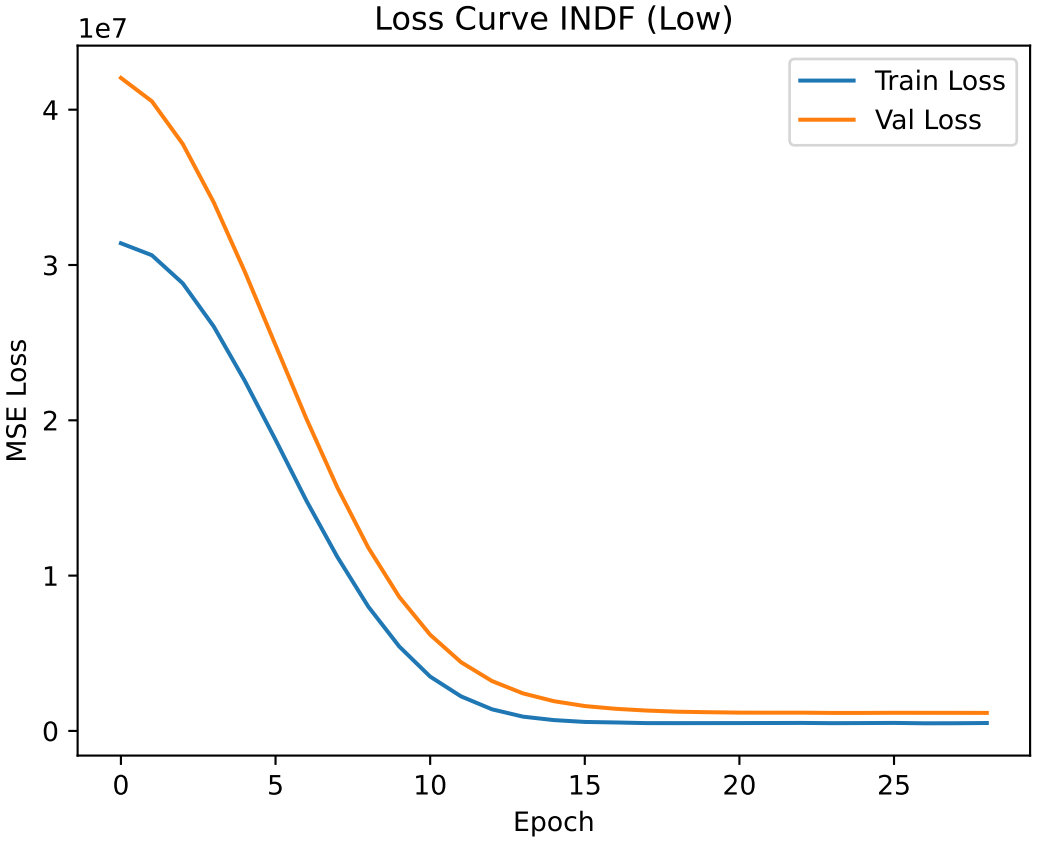

Loss Curve ESSA (Low)
Train Loss
Val Loss
MSE Loss
Epoch
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8
10
12

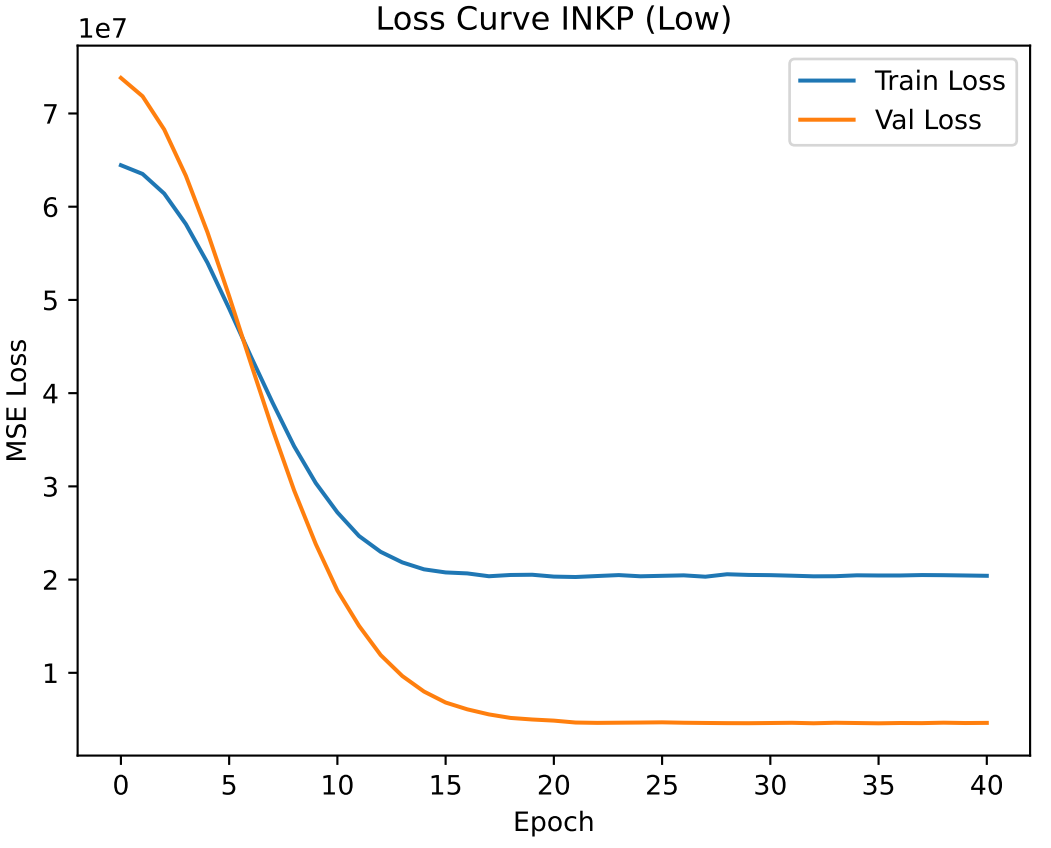

Loss Curve EXCL (Low)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

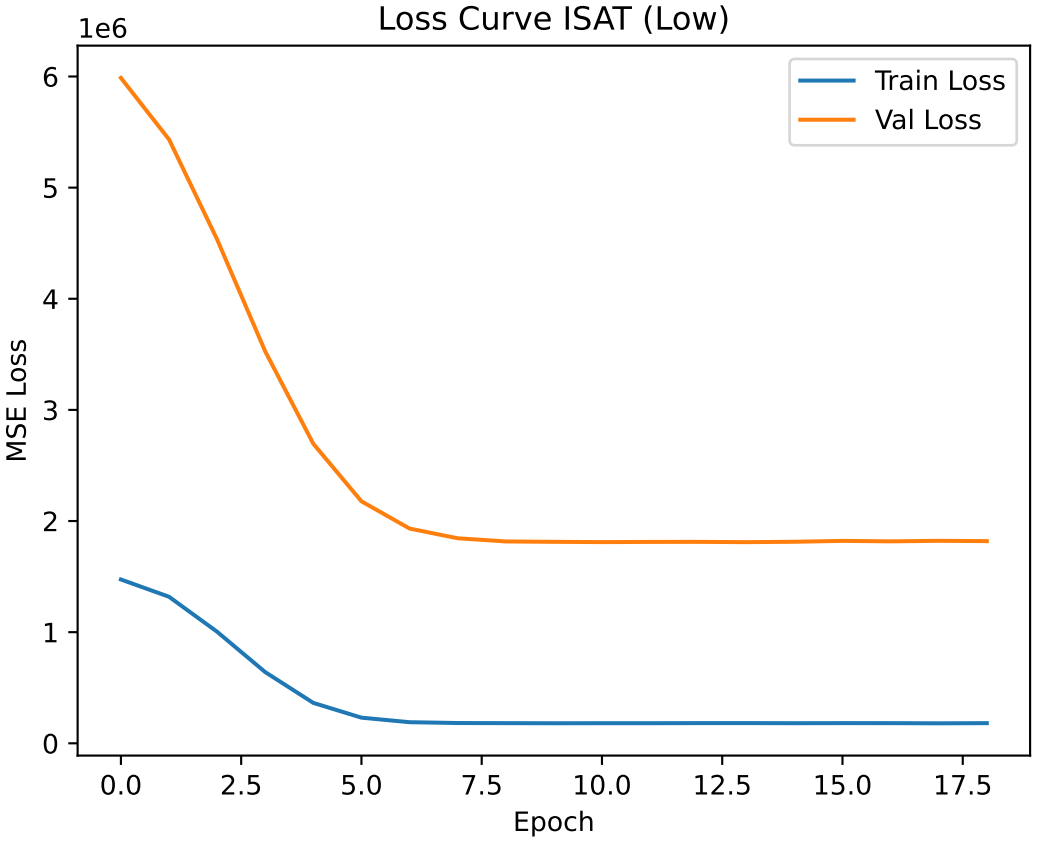

Loss Curve GOTO (Low)
Train Loss
Val Loss
MSE Loss
Epoch
20000
15000
10000
5000
0
0
2
4
6
8
10

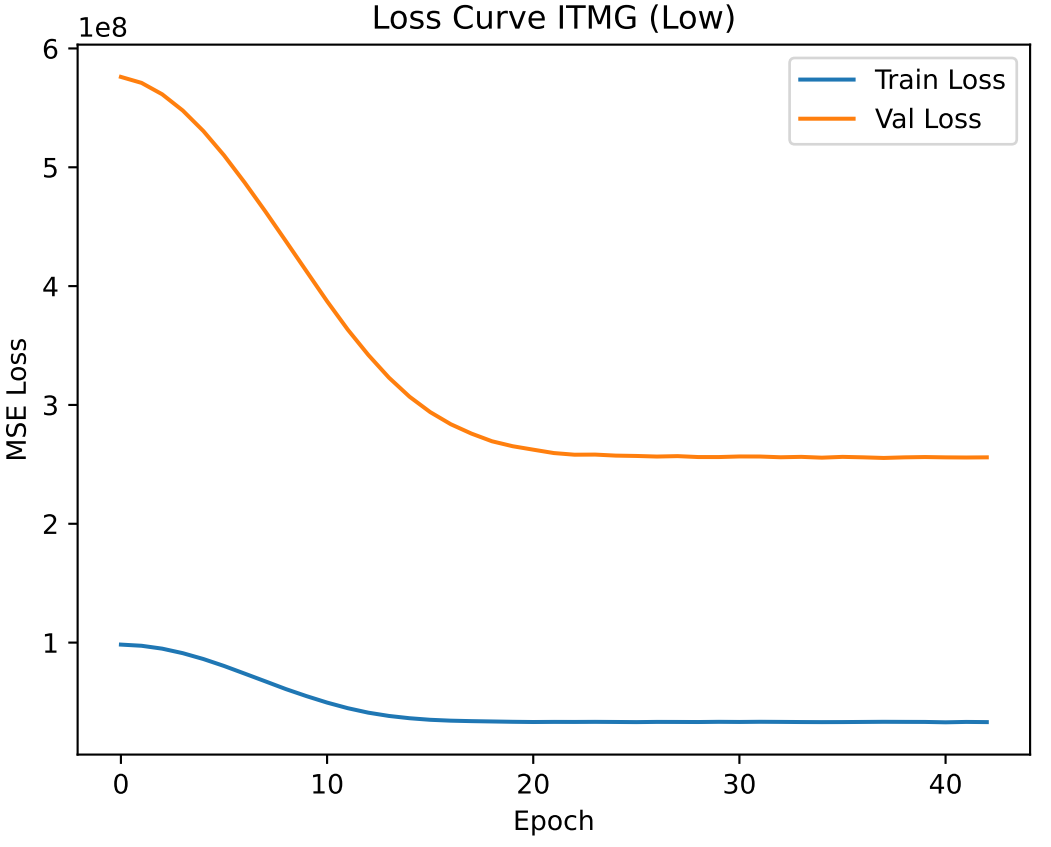

Loss Curve ICBP (Low)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
10
20
30
40
Epoch
Train Loss
Val Loss

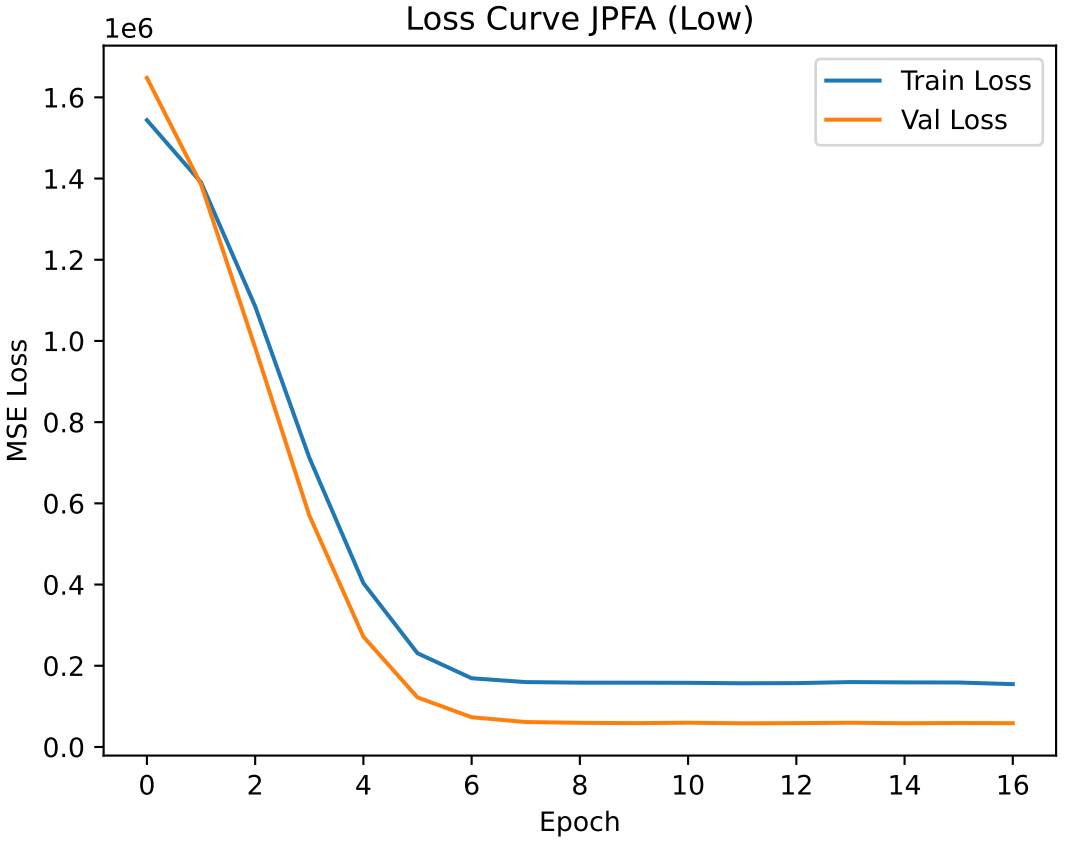

Loss Curve INCO (Low)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
Epoch


Loss Curve INDF (Low)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25


Loss Curve INKP (Low)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
1
2
3
4
5
6
7
0
5
10
15
20
25
30
35
40


Loss Curve ISAT (Low)
1e6
6
5
4
3
2
1
0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch


Loss Curve ITMG (Low)
1e8
6
5
4
3
2
1
MSE Loss
0
10
20
30
40
Epoch
Train Loss
Val Loss


Loss Curve JPFA (Low)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
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2
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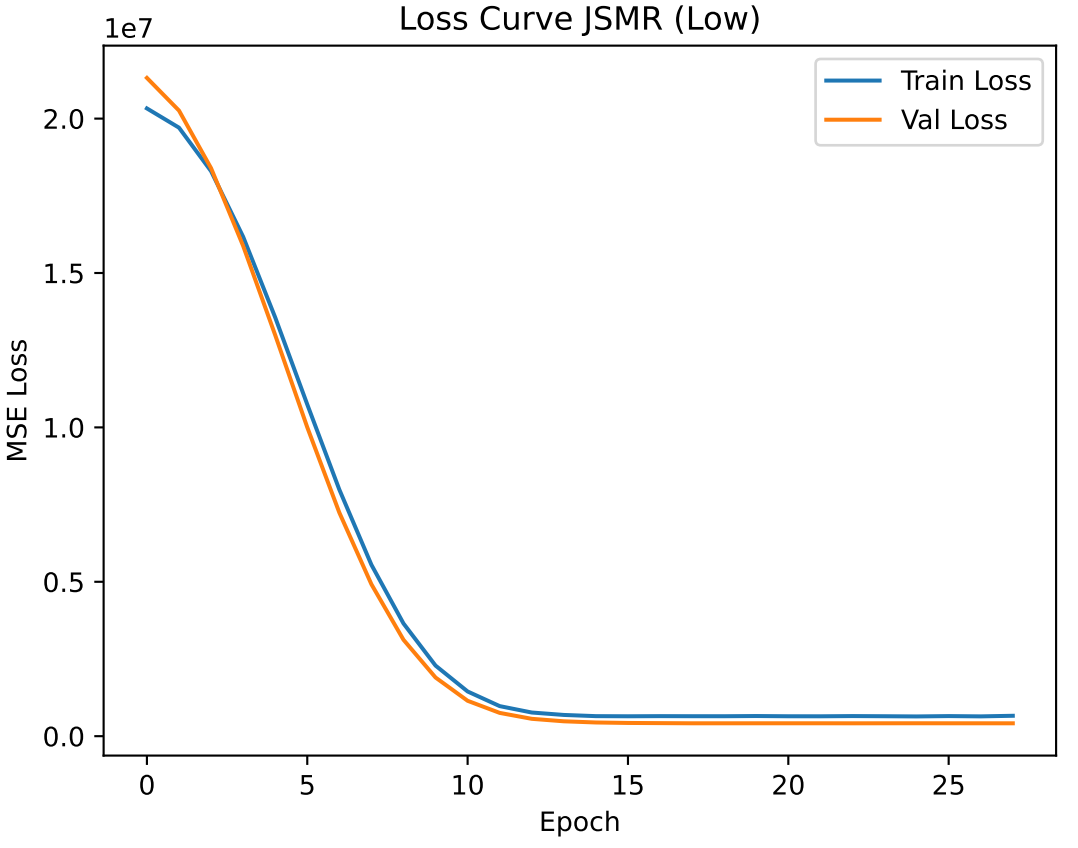
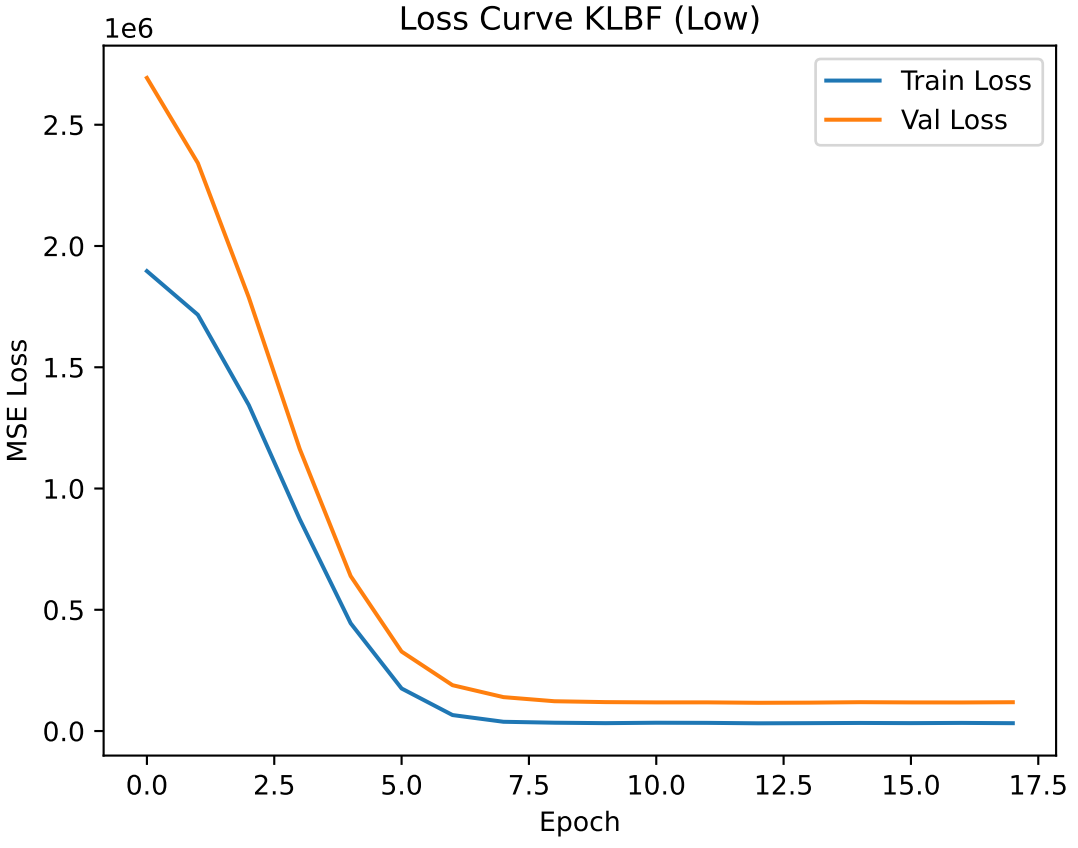
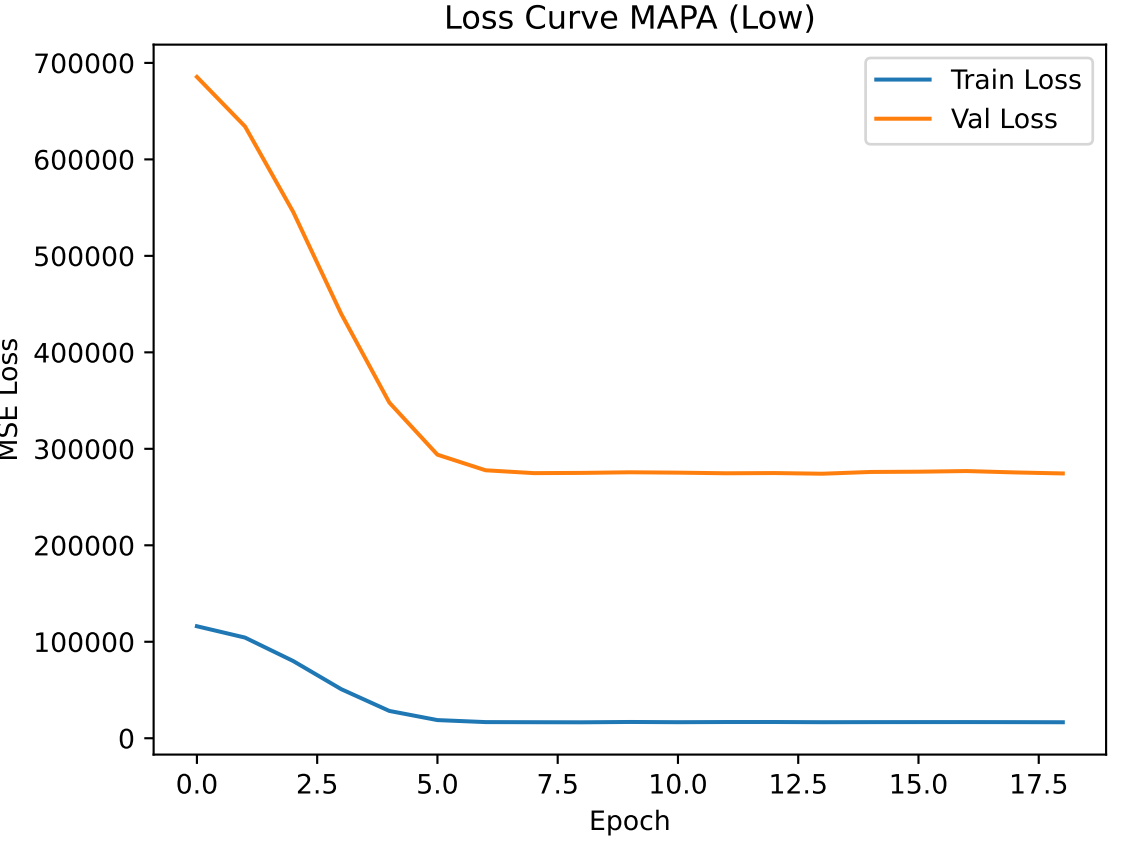
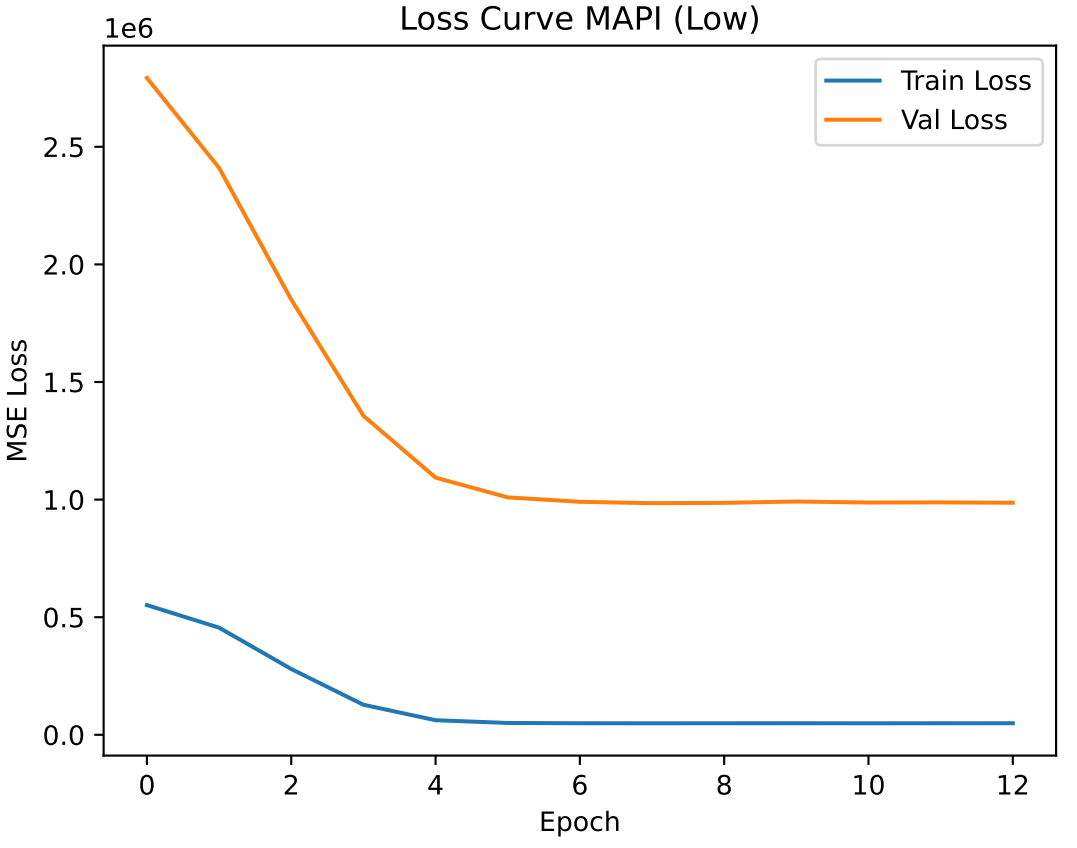
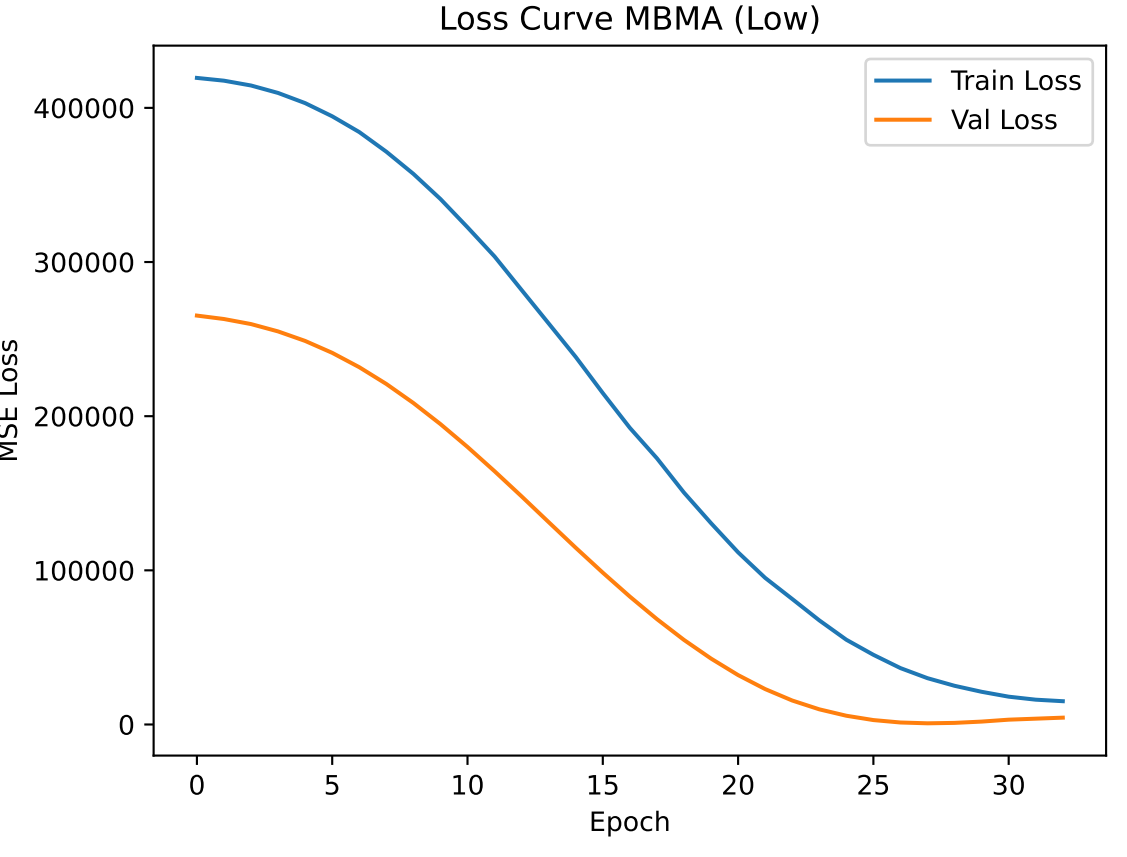
6
8
10
12
14
16

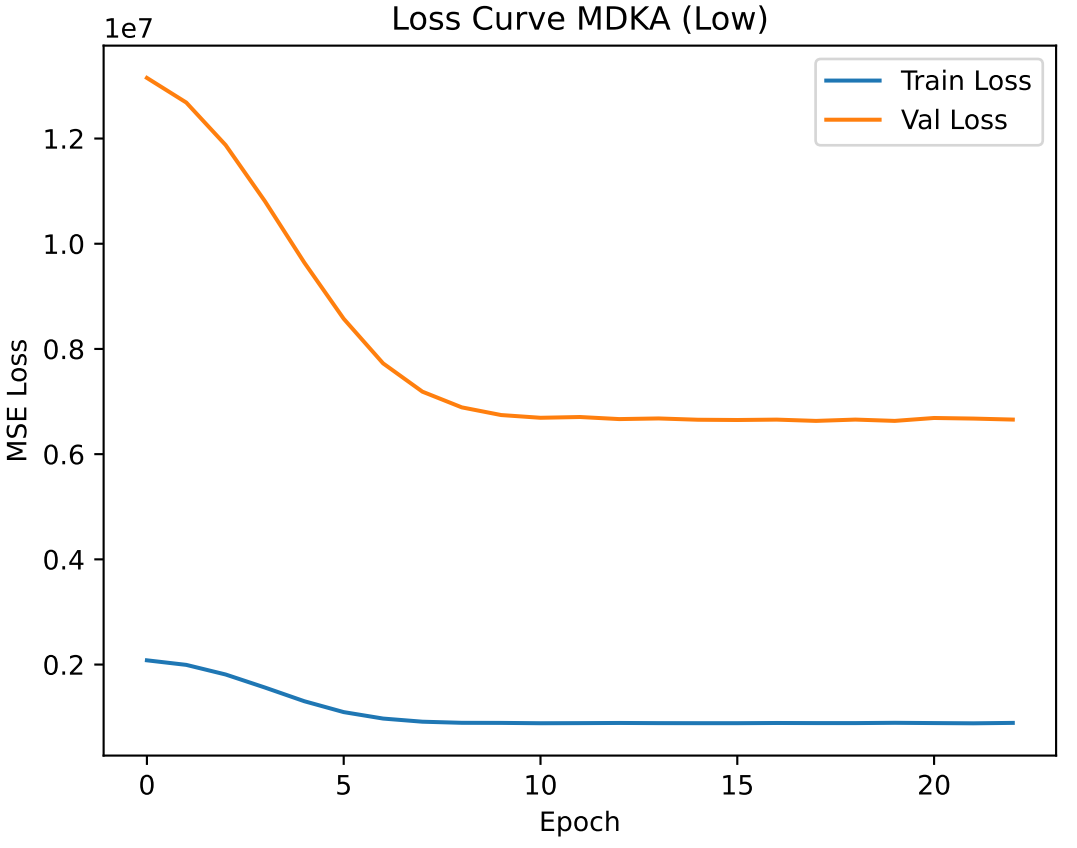

Loss Curve JSMR (Low)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

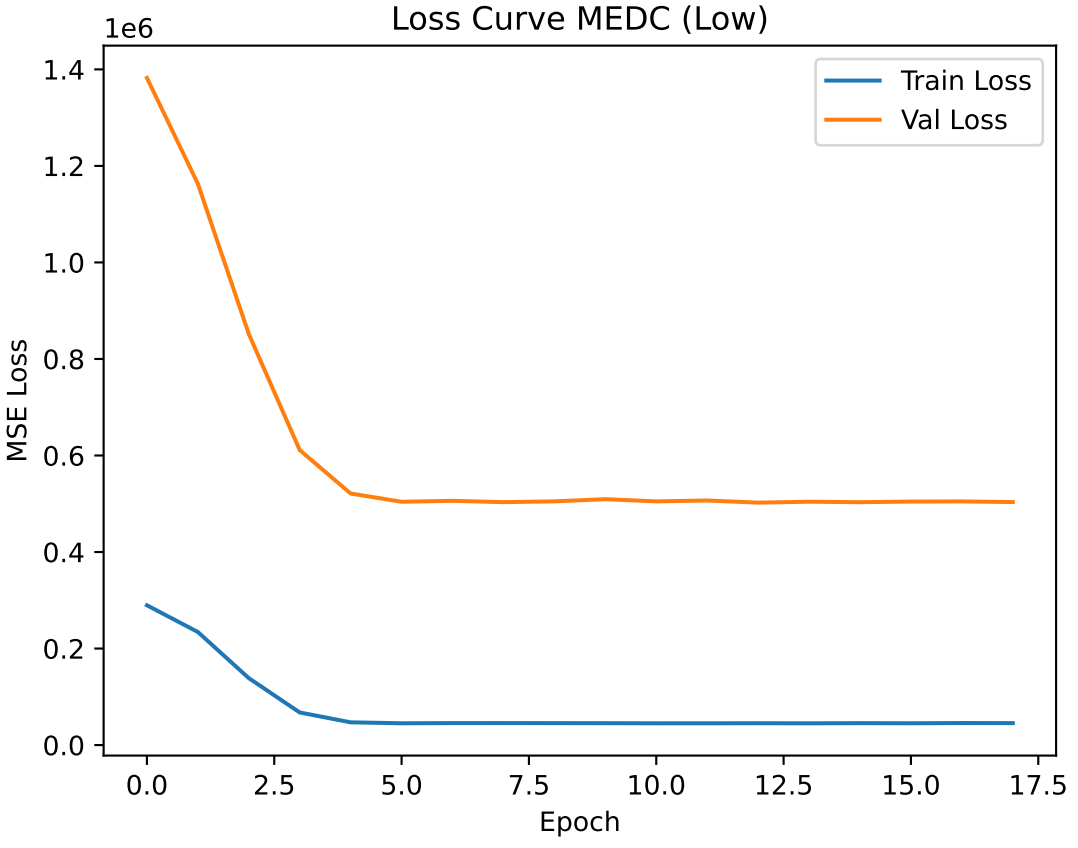

Loss Curve KLBF (Low)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

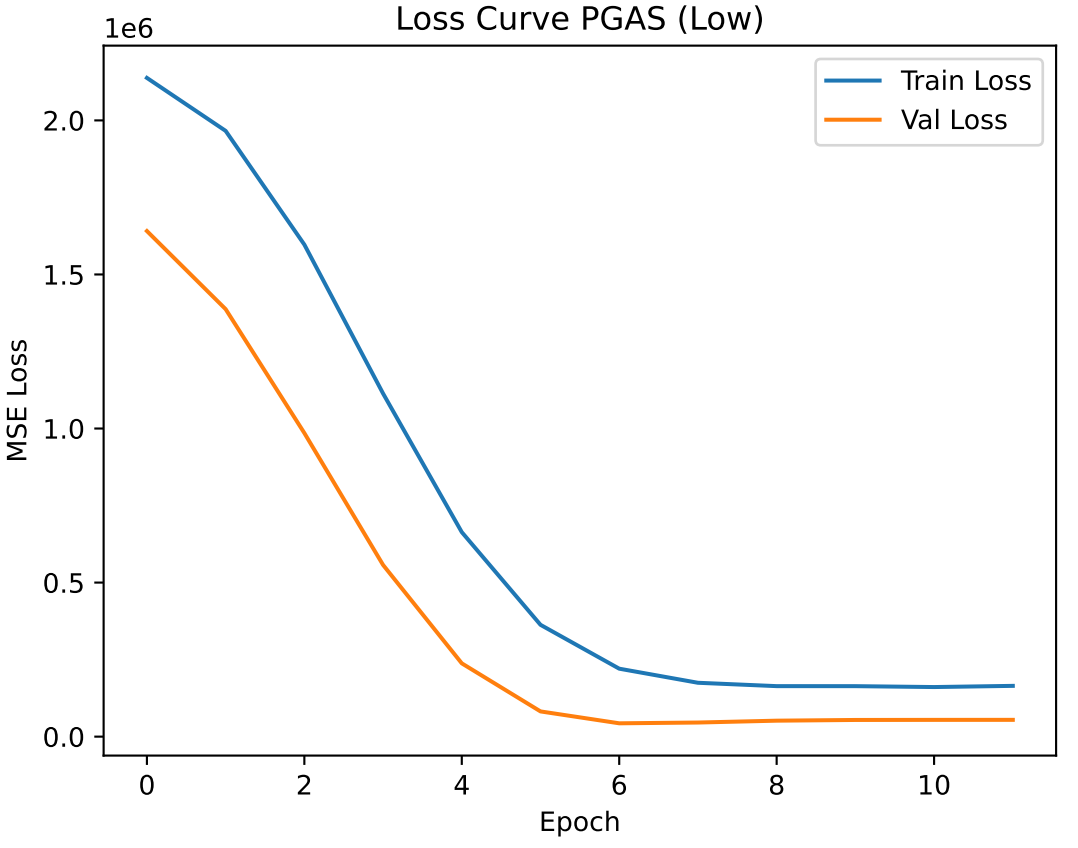

Loss Curve MAPA (Low)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

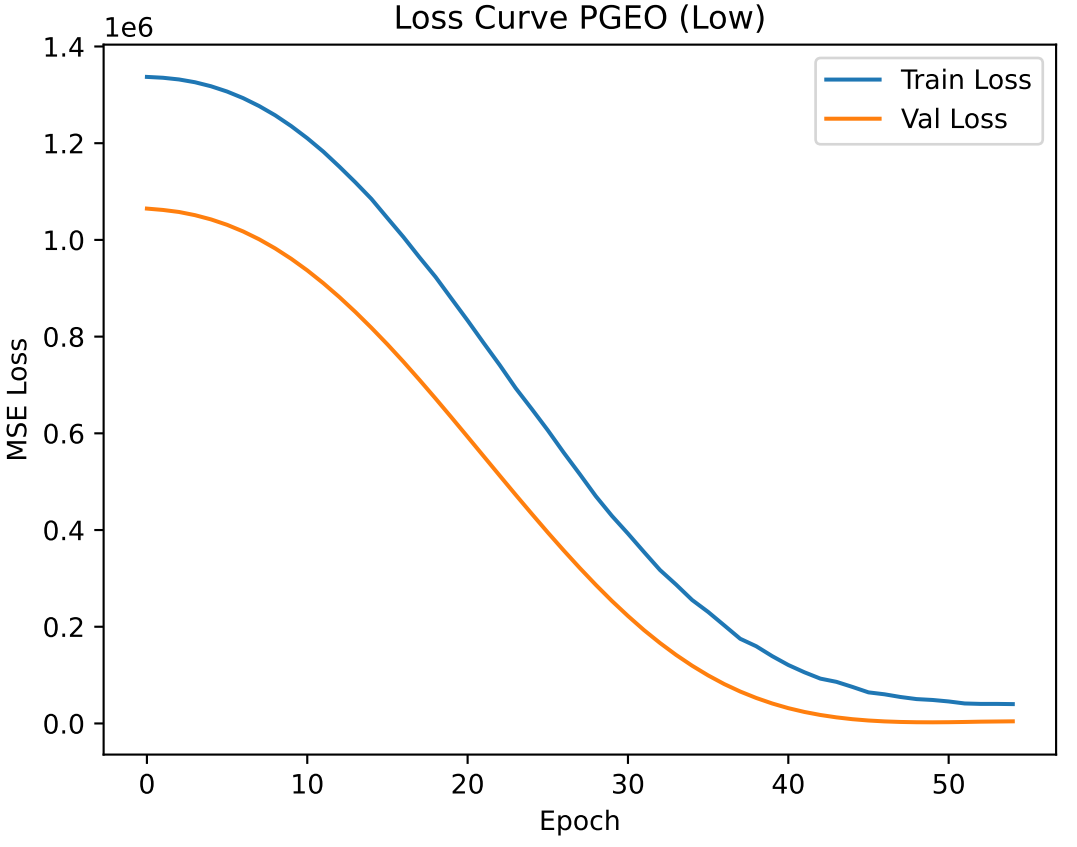

Loss Curve MAPI (Low)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch

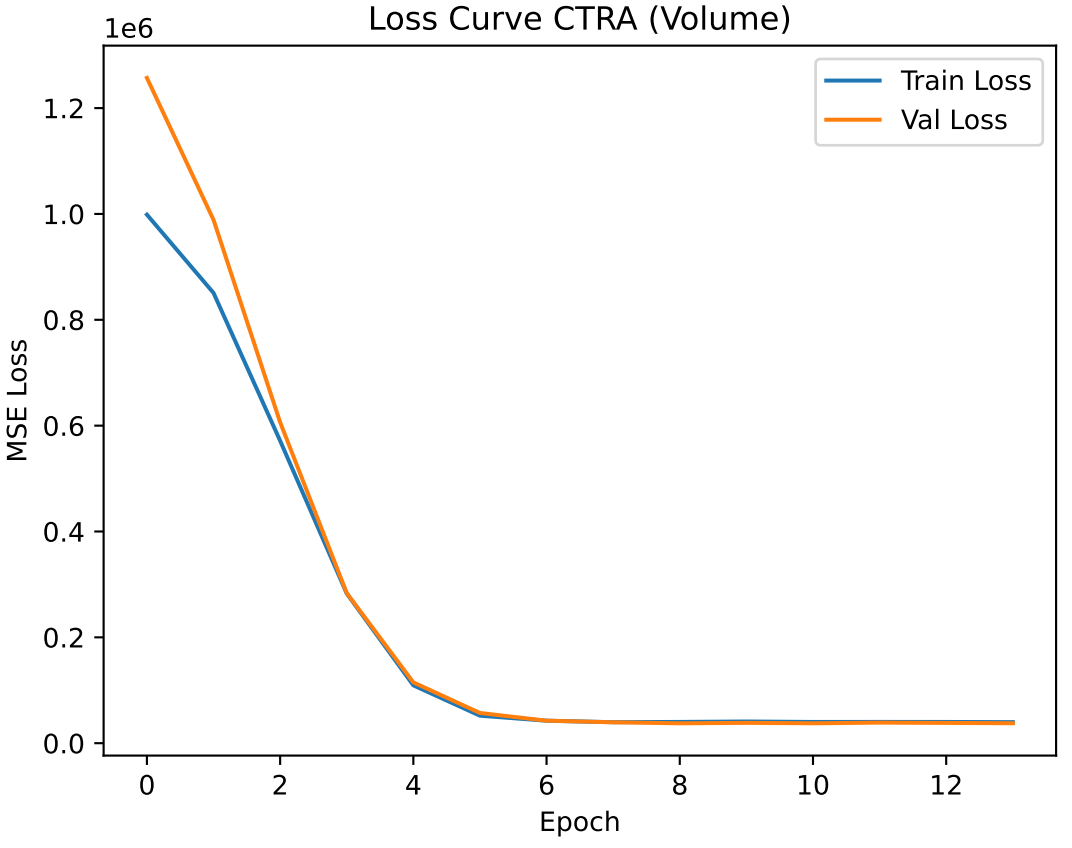

Loss Curve MBMA (Low)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
Epoch

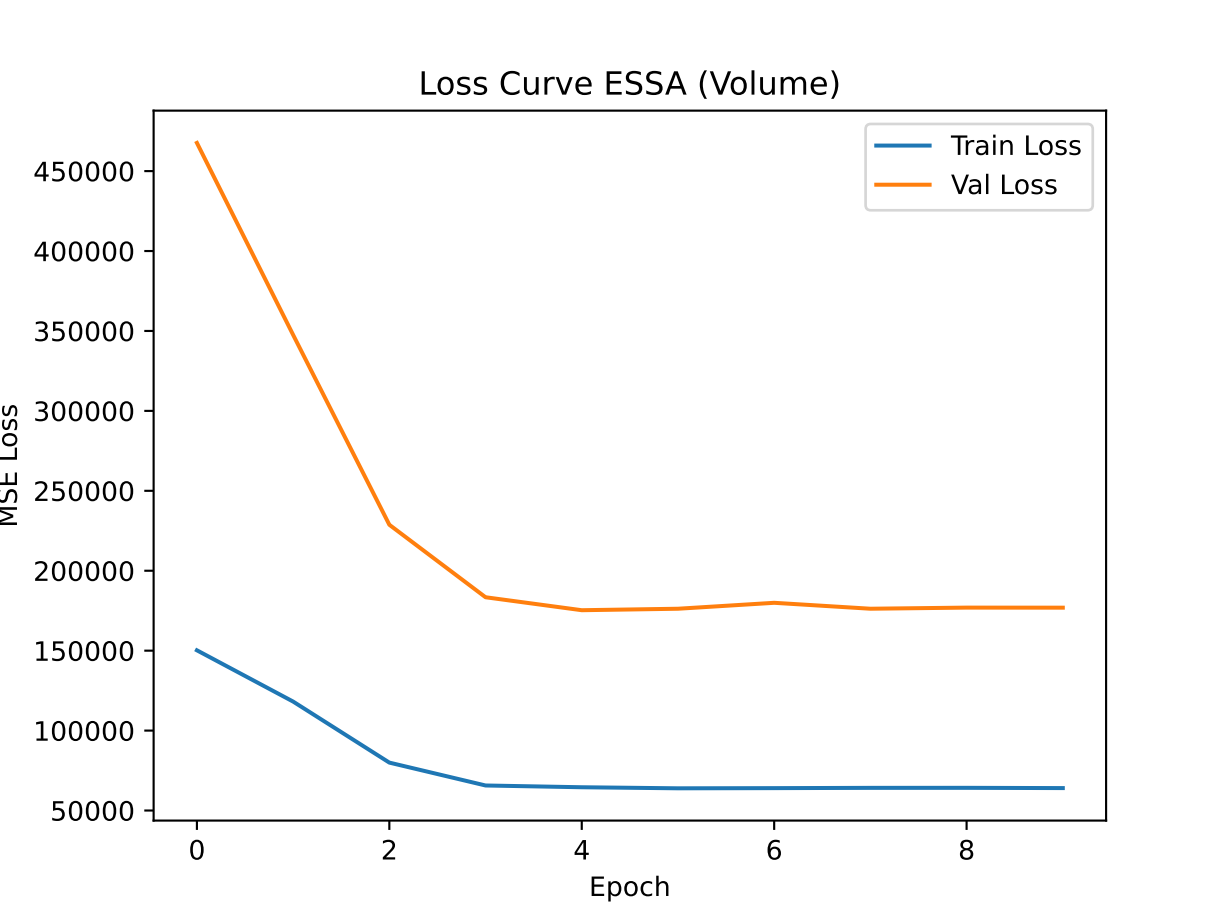

Loss Curve MDKA (Low)
1e7
Train Loss
Val Loss
1.2
1.0
0.8
0.6
0.4
0.2
MSE Loss
0
5
10
15
20
Epoch

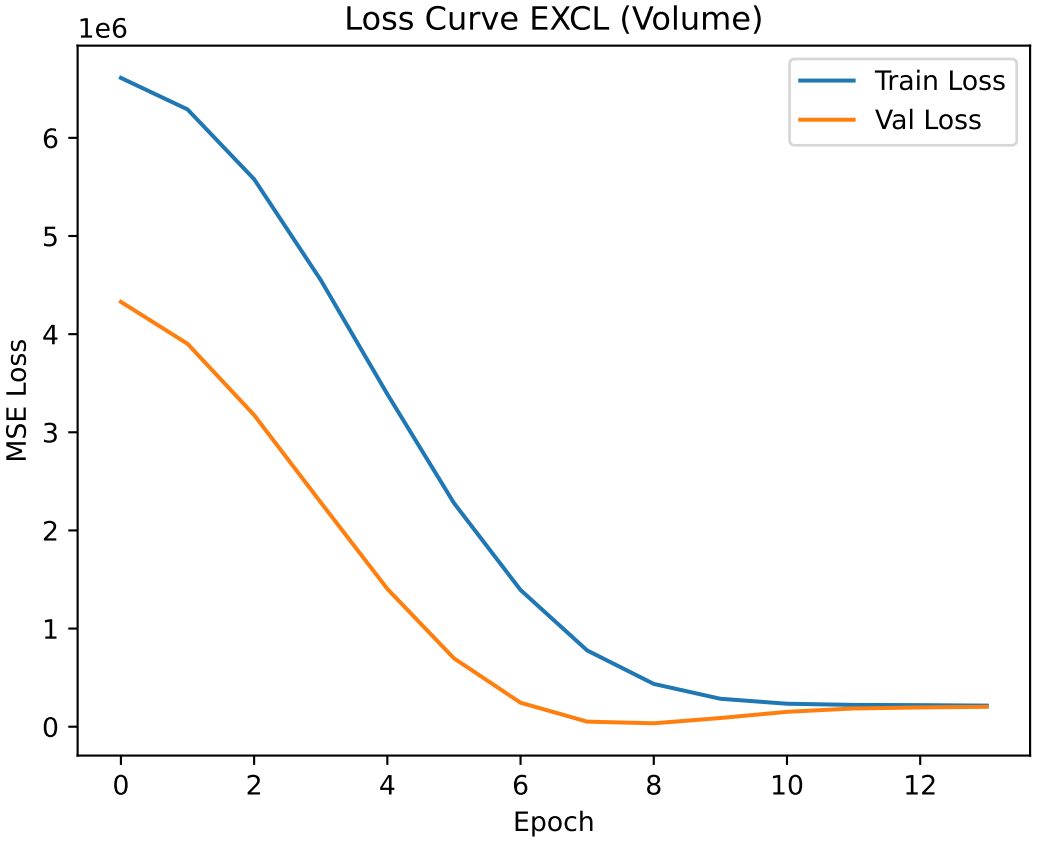

Loss Curve MEDC (Low)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

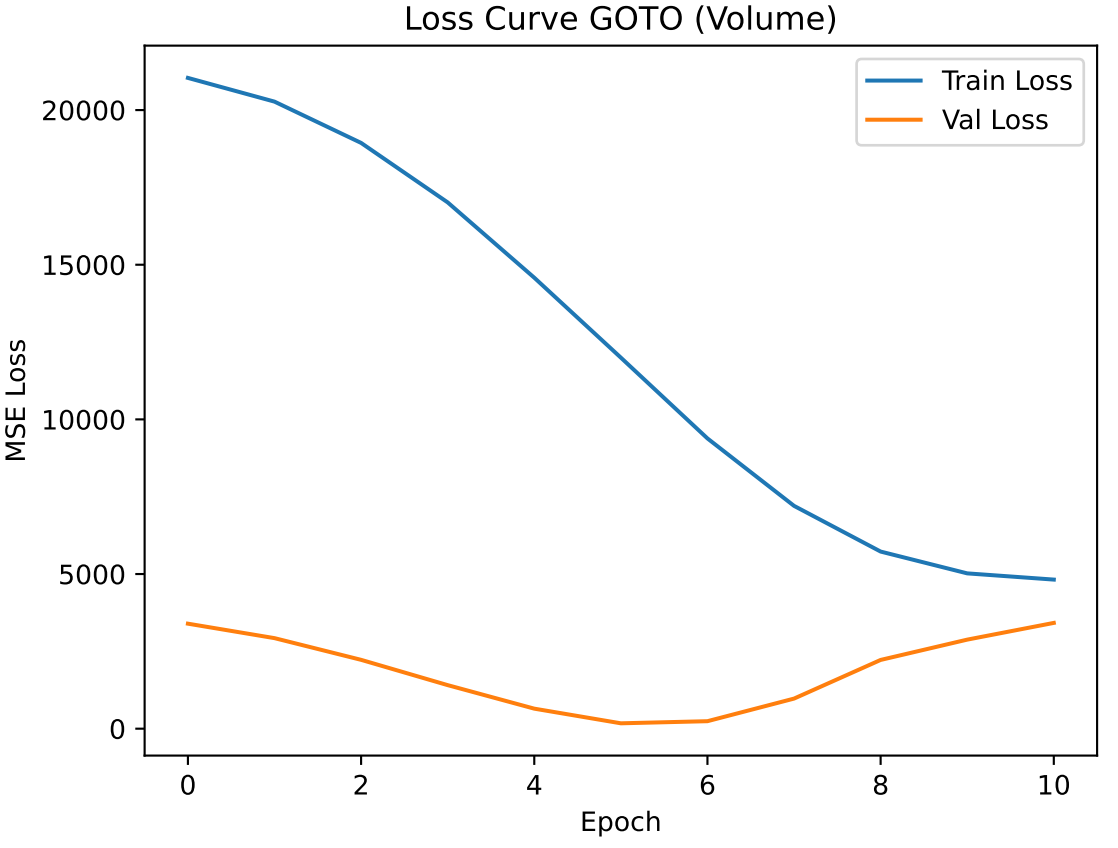

Loss Curve PGAS (Low)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

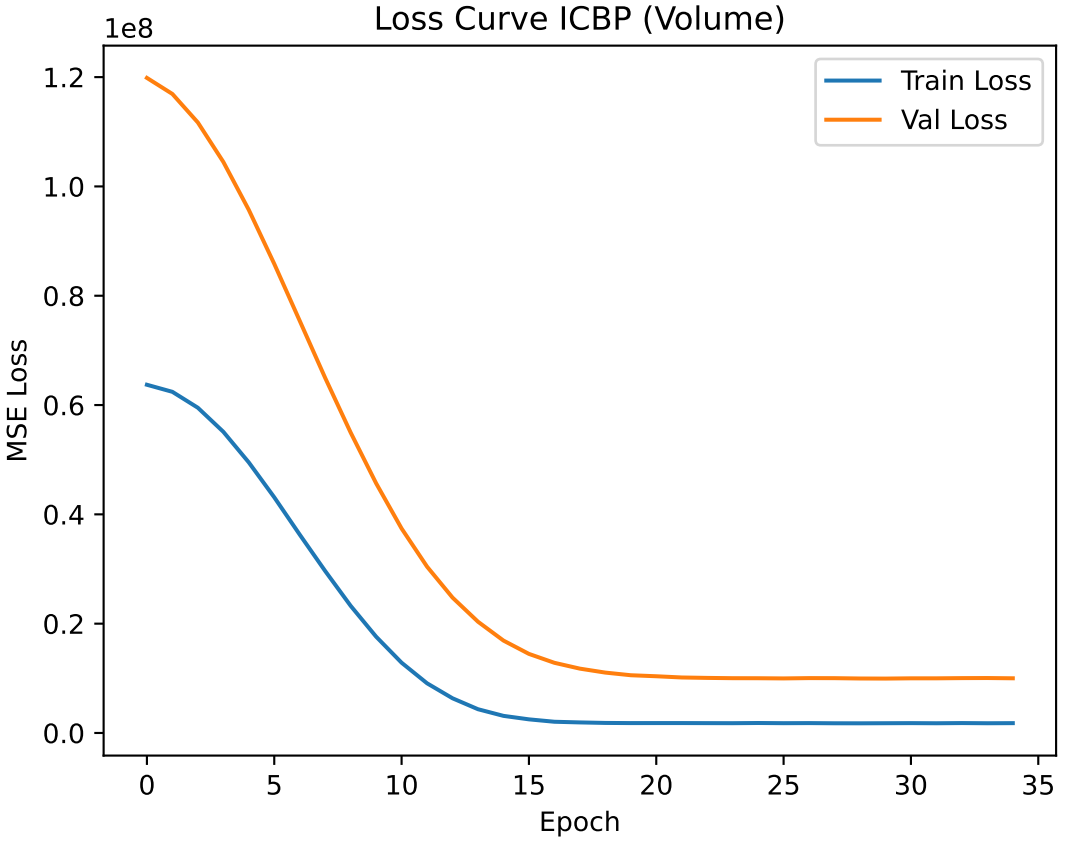

Loss Curve PGEO (Low)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
10
20
30
40
50
Epoch
Train Loss
Val Loss

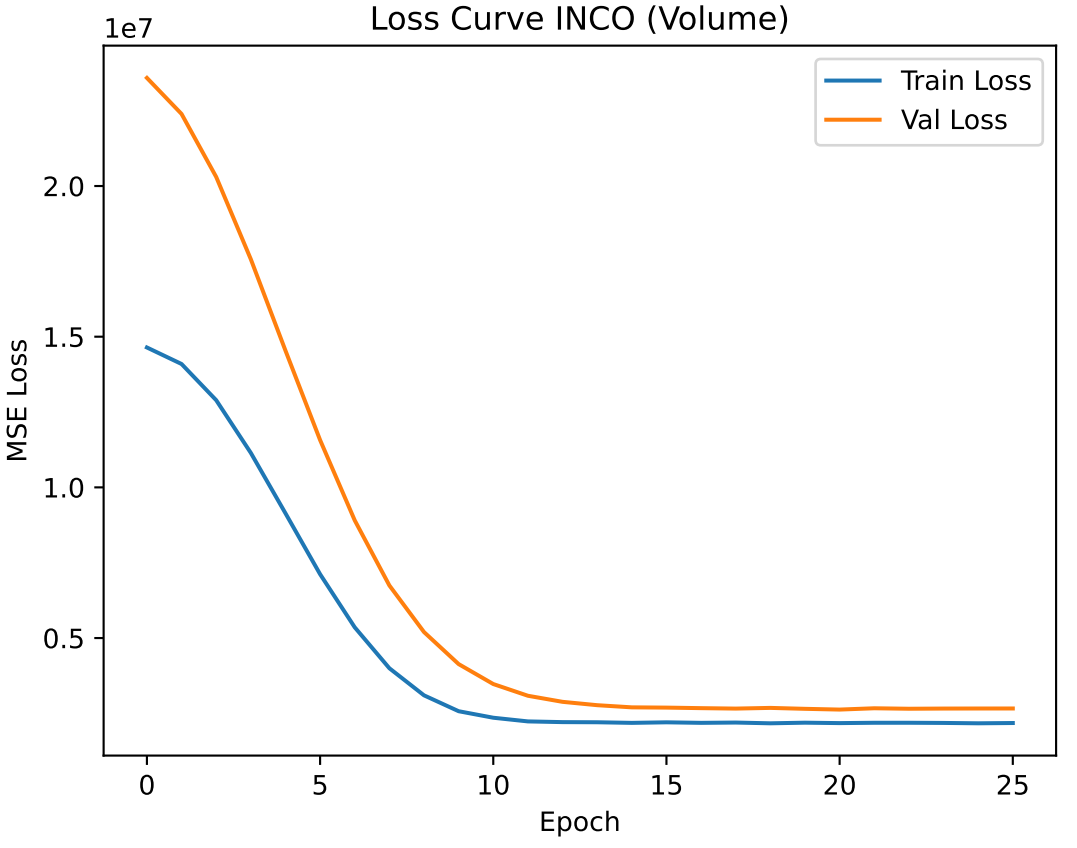

Loss Curve CTRA (Volume)
1e6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
2
4
6
8
10
12
Epoch
Train Loss
Val Loss

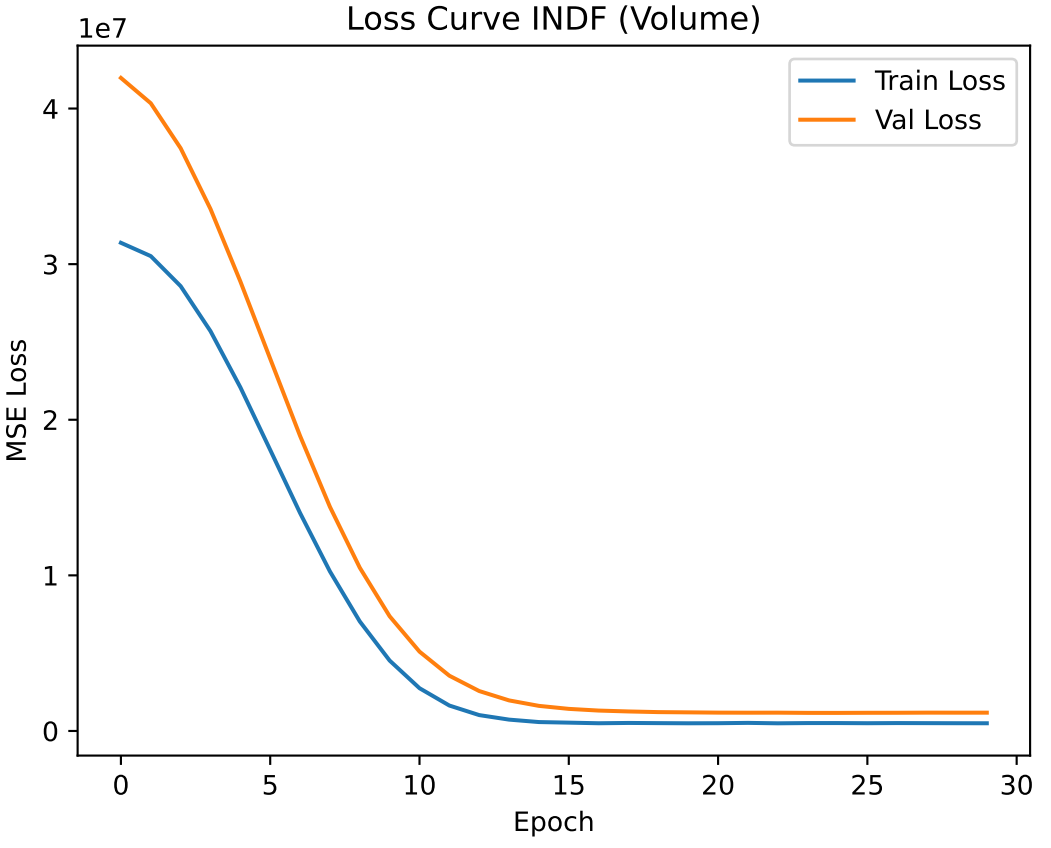

Loss Curve ESSA (Volume)
Train Loss
Val Loss
MSE Loss
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8
Epoch

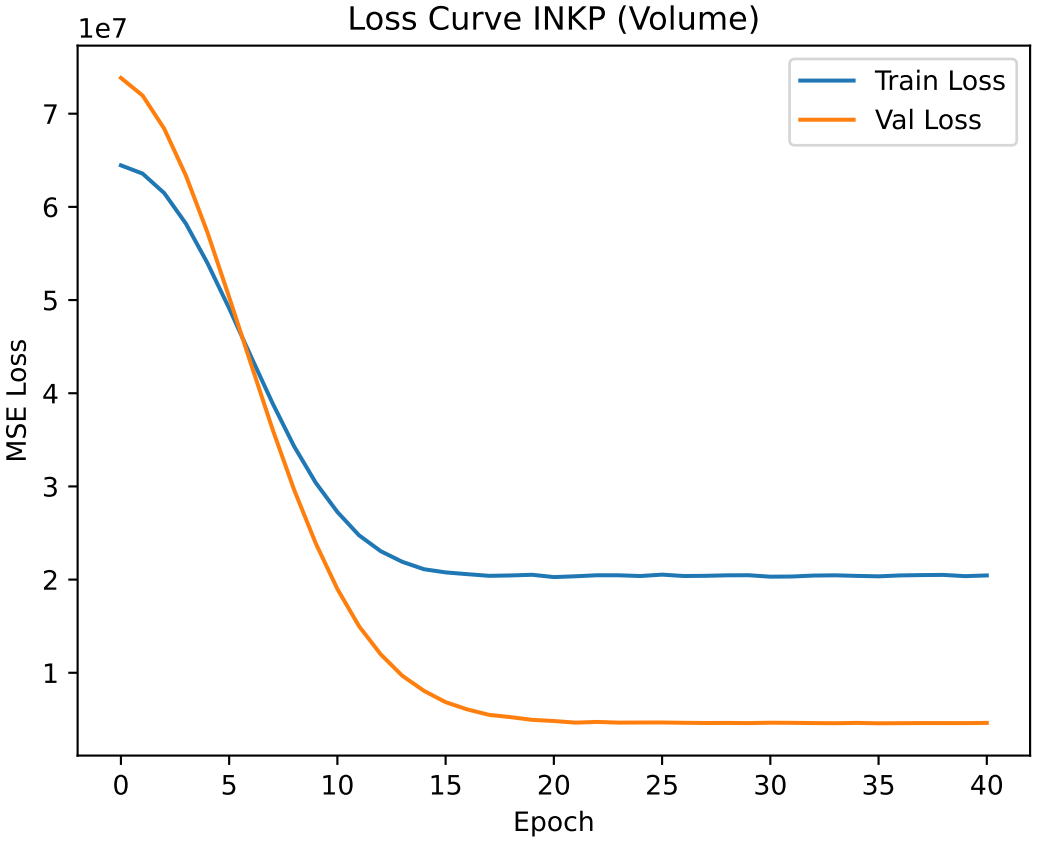

Loss Curve EXCL (Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12


Loss Curve GOTO (Volume)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch


Loss Curve ICBP (Volume)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch


Loss Curve INCO (Volume)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
Epoch


Loss Curve INDF (Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30


Loss Curve INKP (Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
35
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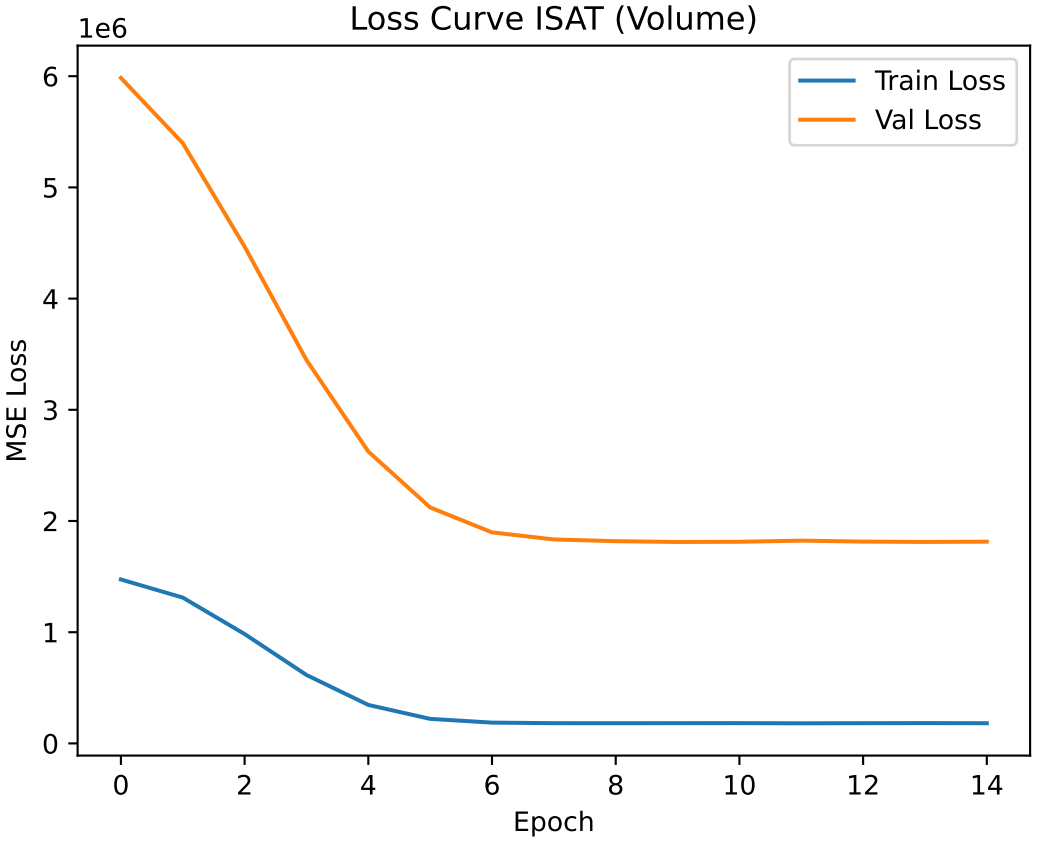
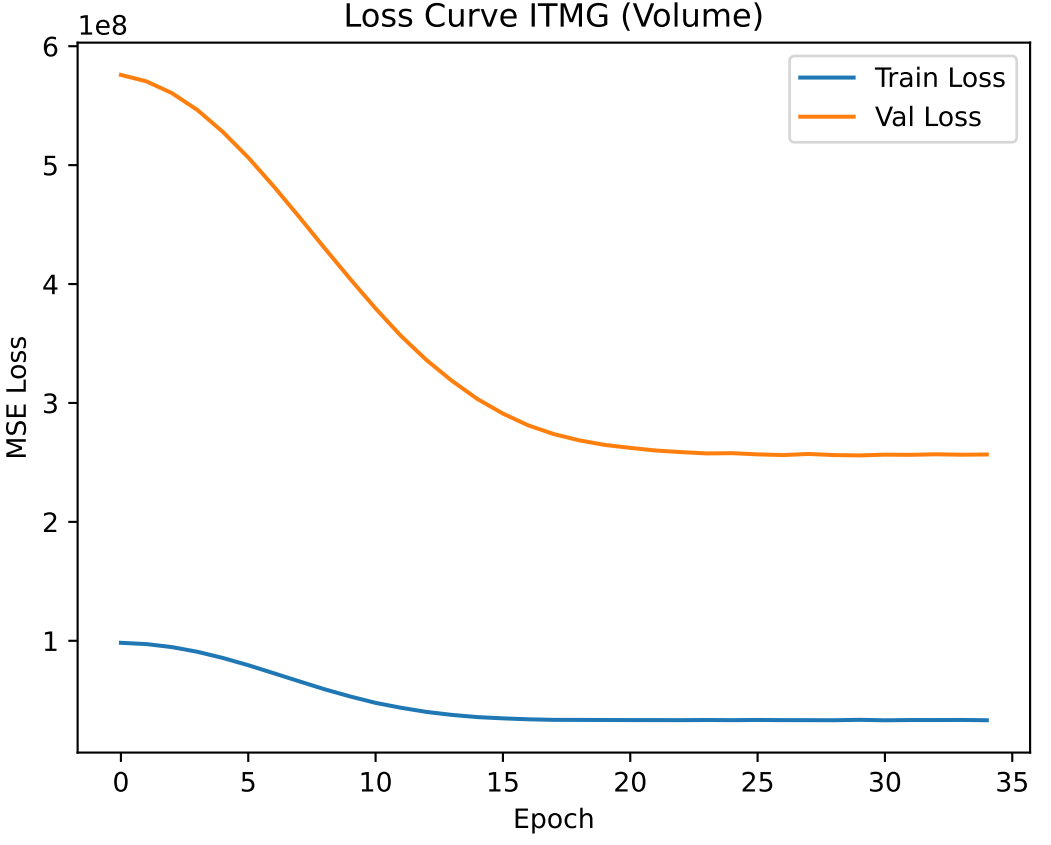
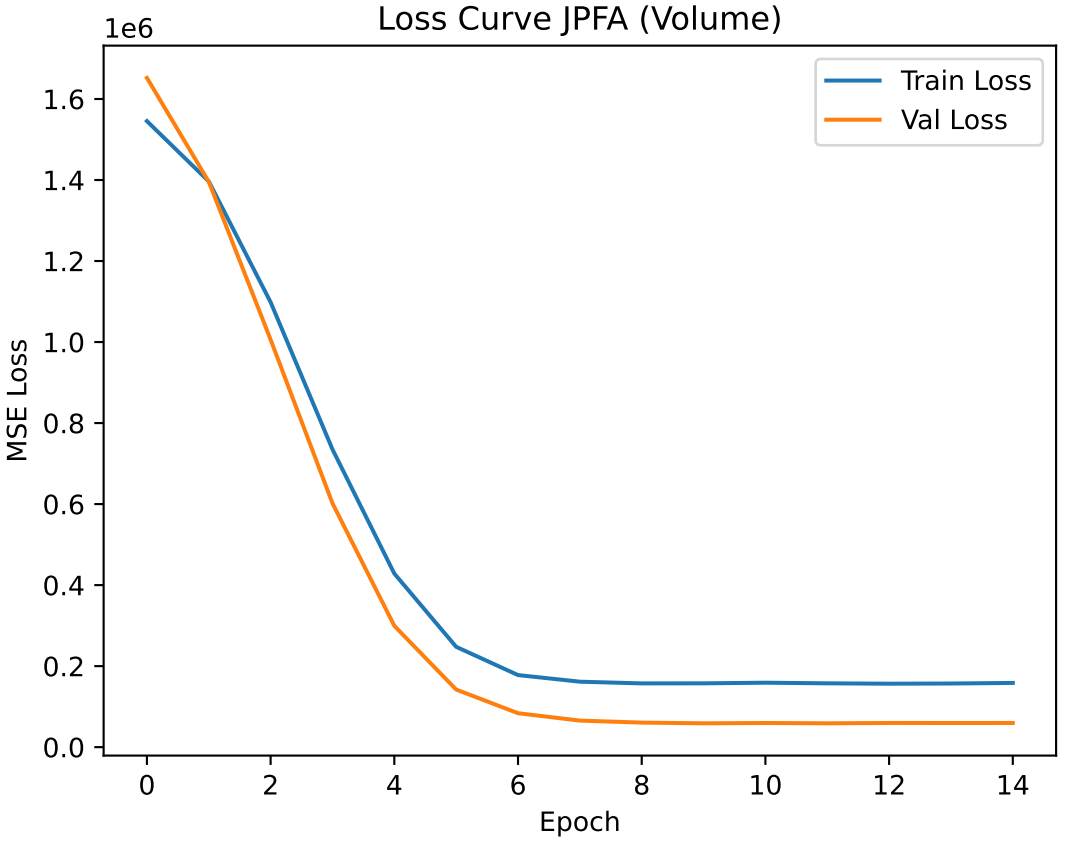
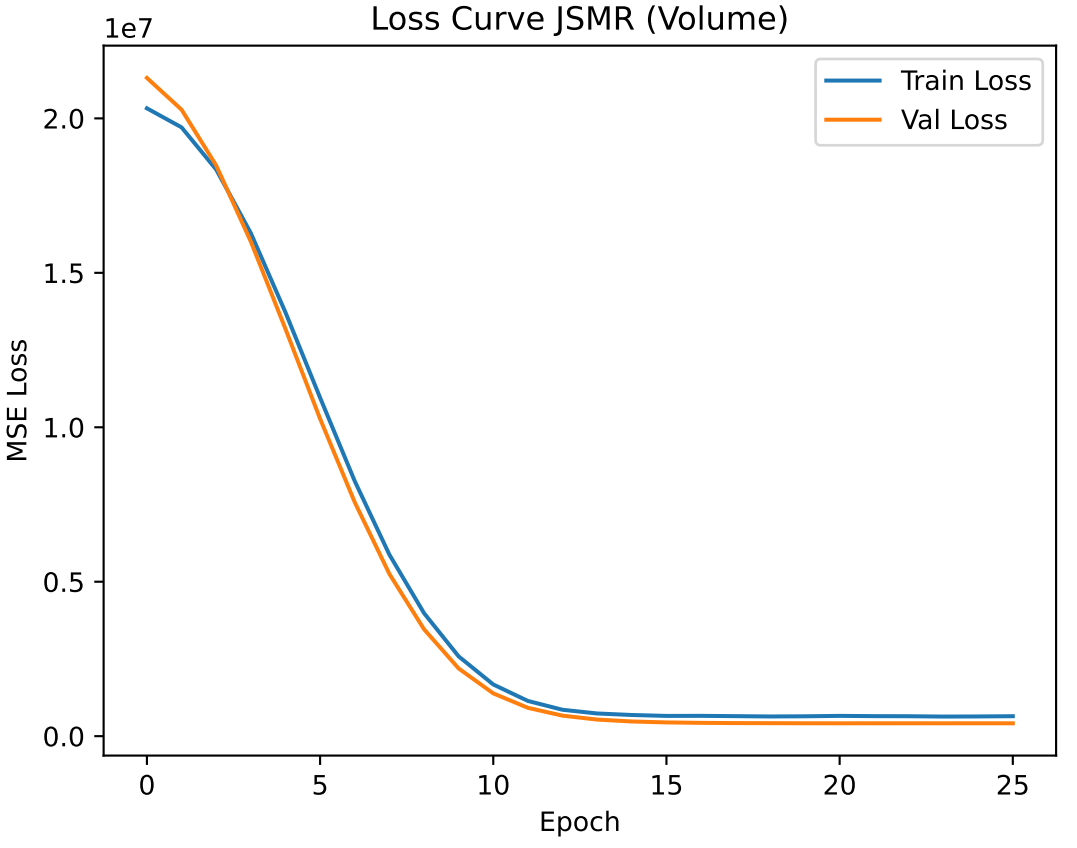
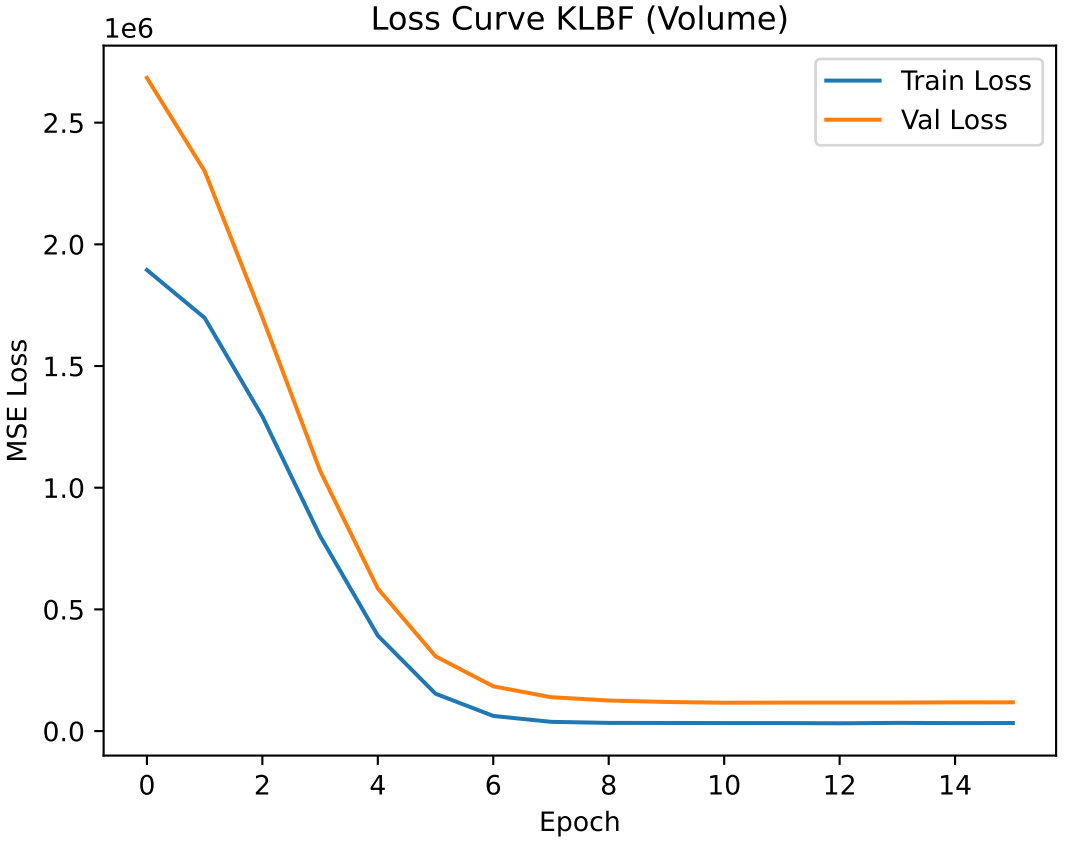
4
5
6
7

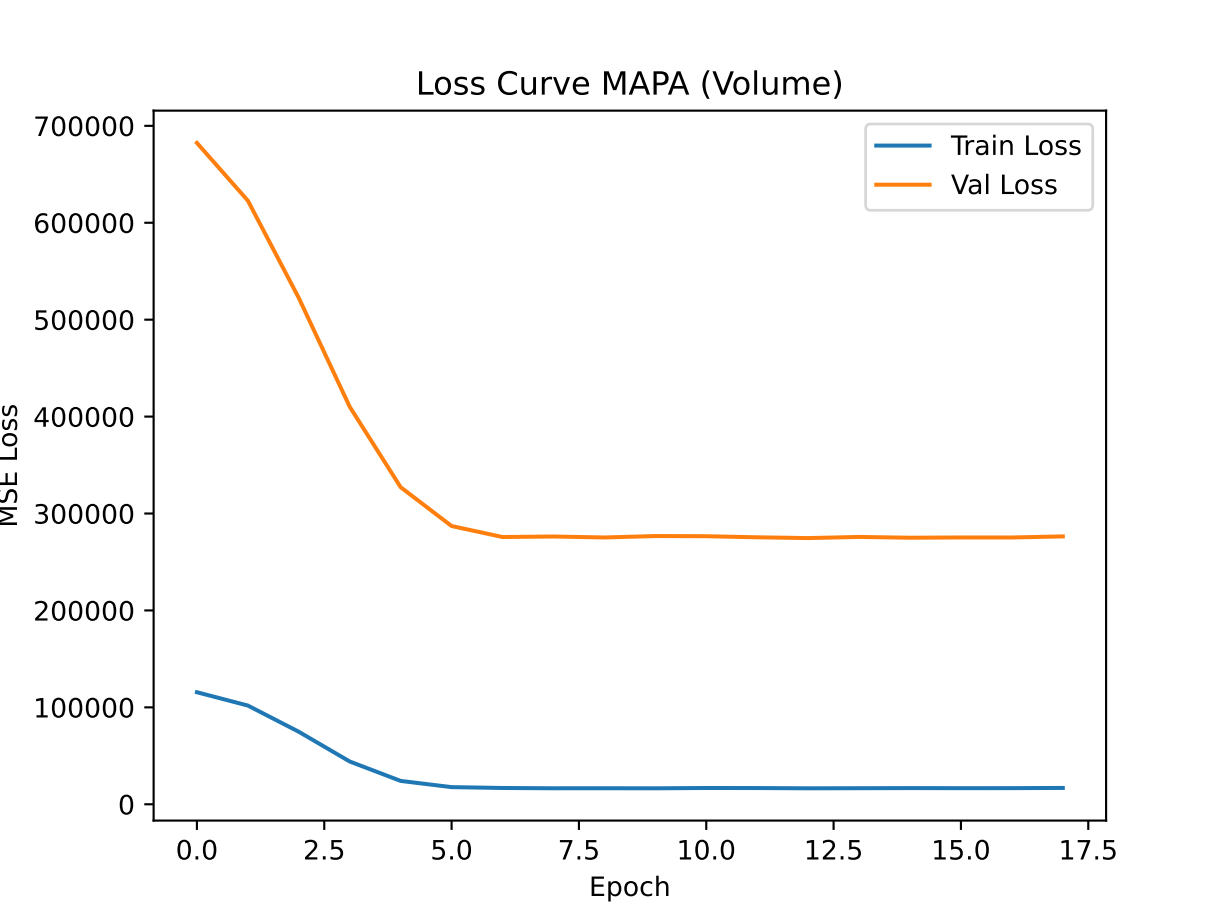

Loss Curve ISAT (Volume)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14

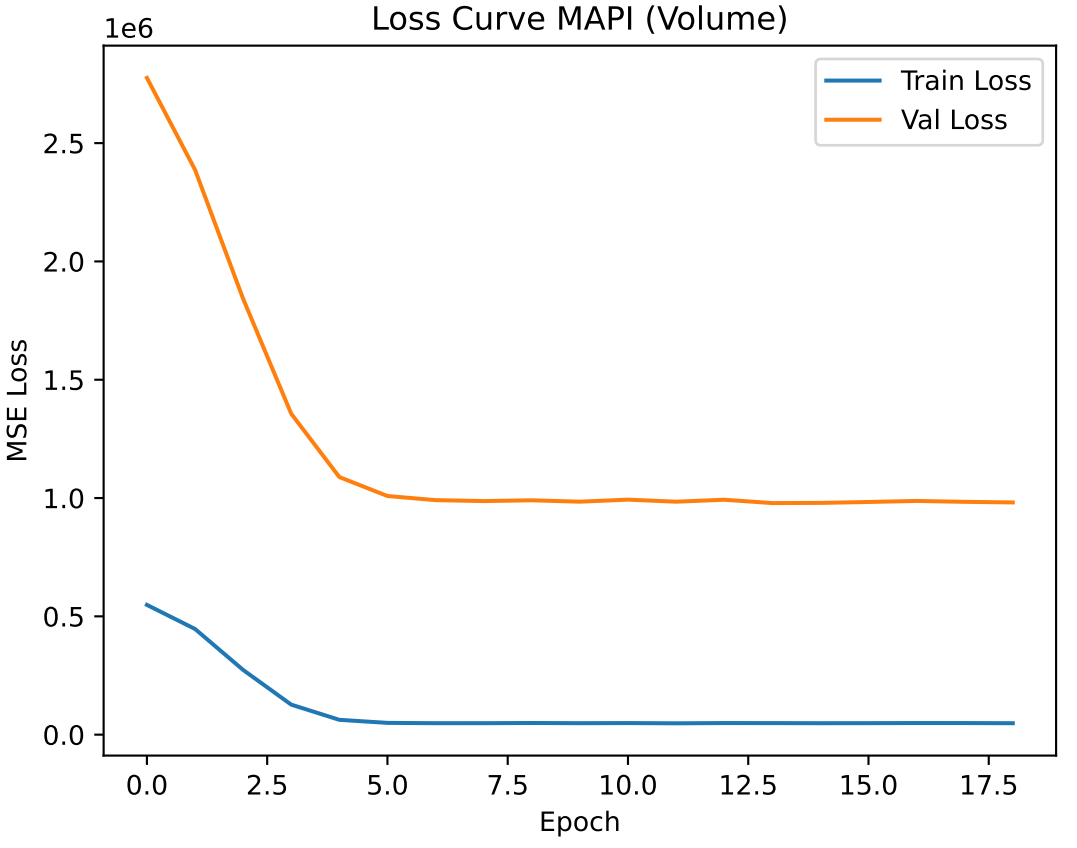

Loss Curve ITMG (Volume)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

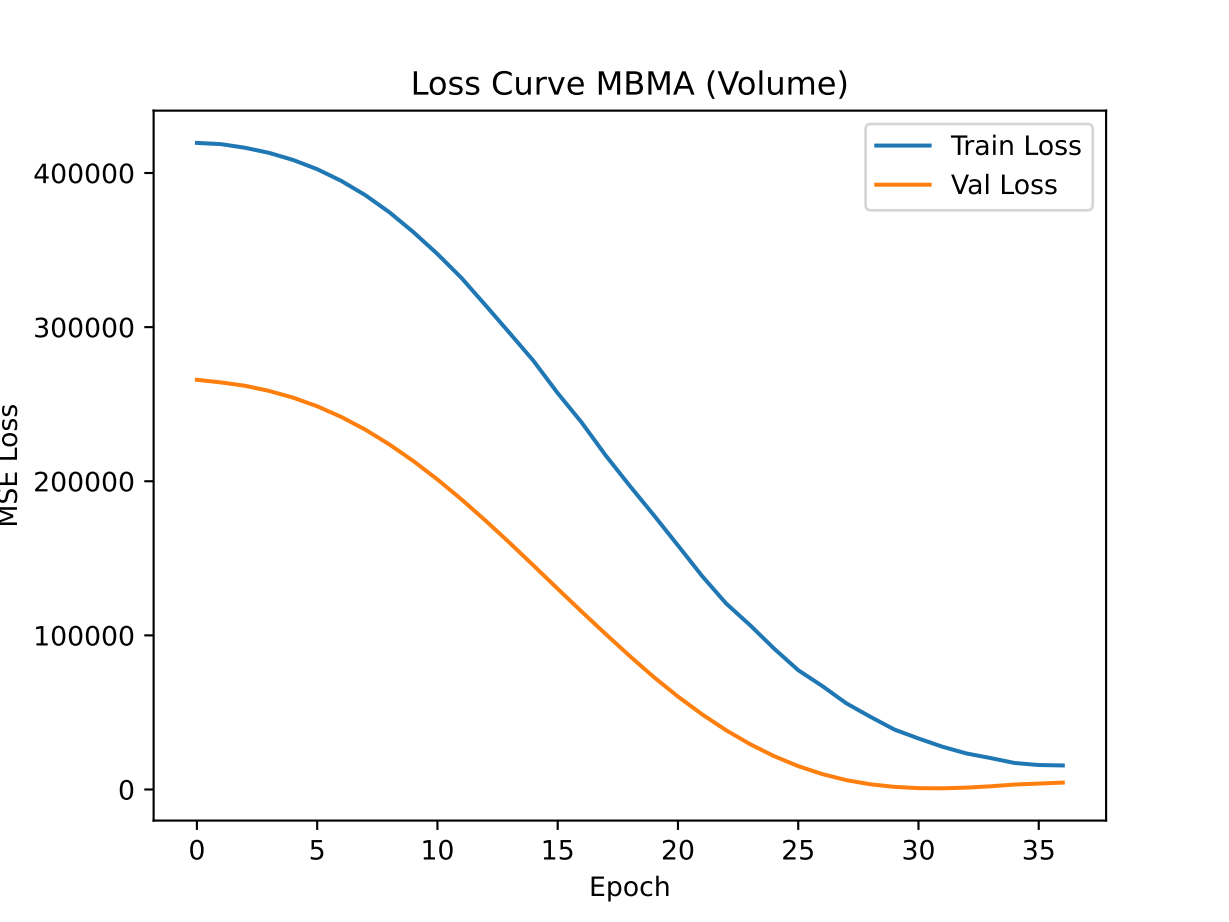

Loss Curve JPFA (Volume)
1e6
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
2
4
6
8
10
12
14
Epoch
Train Loss
Val Loss

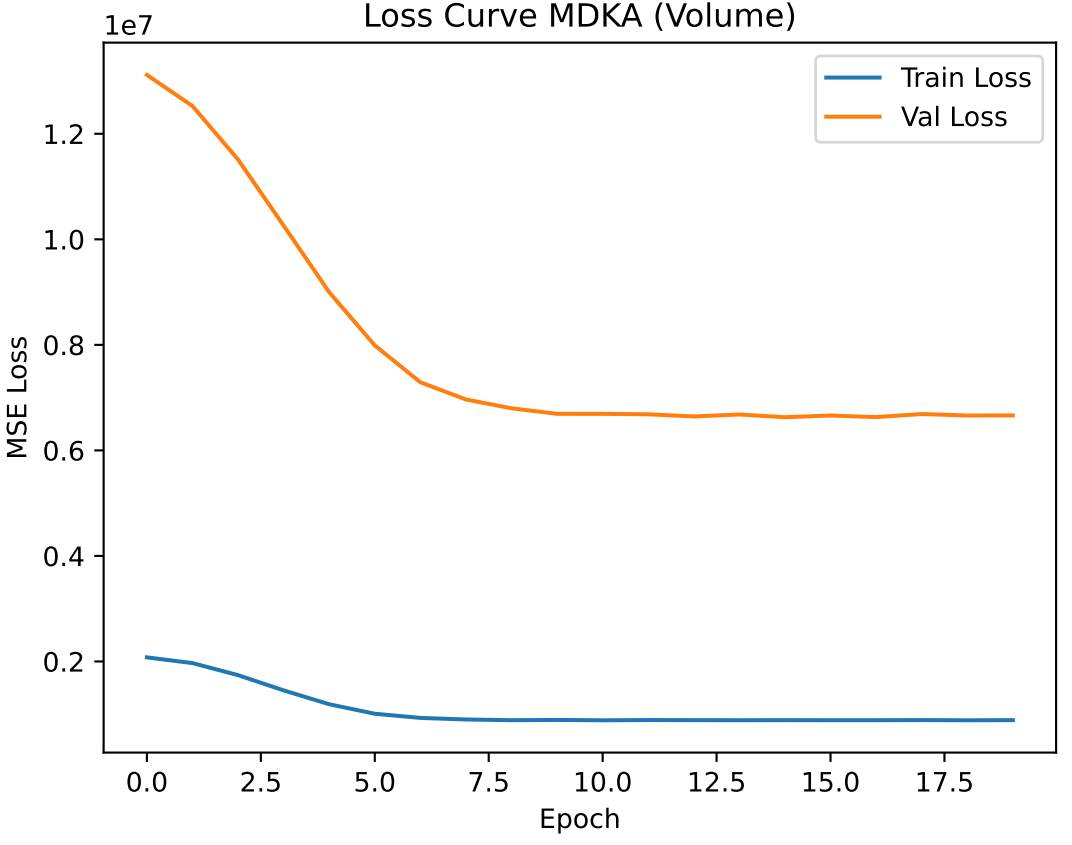

Loss Curve JSMR (Volume)
1e7
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
5
10
15
20
25
Epoch
Train Loss
Val Loss

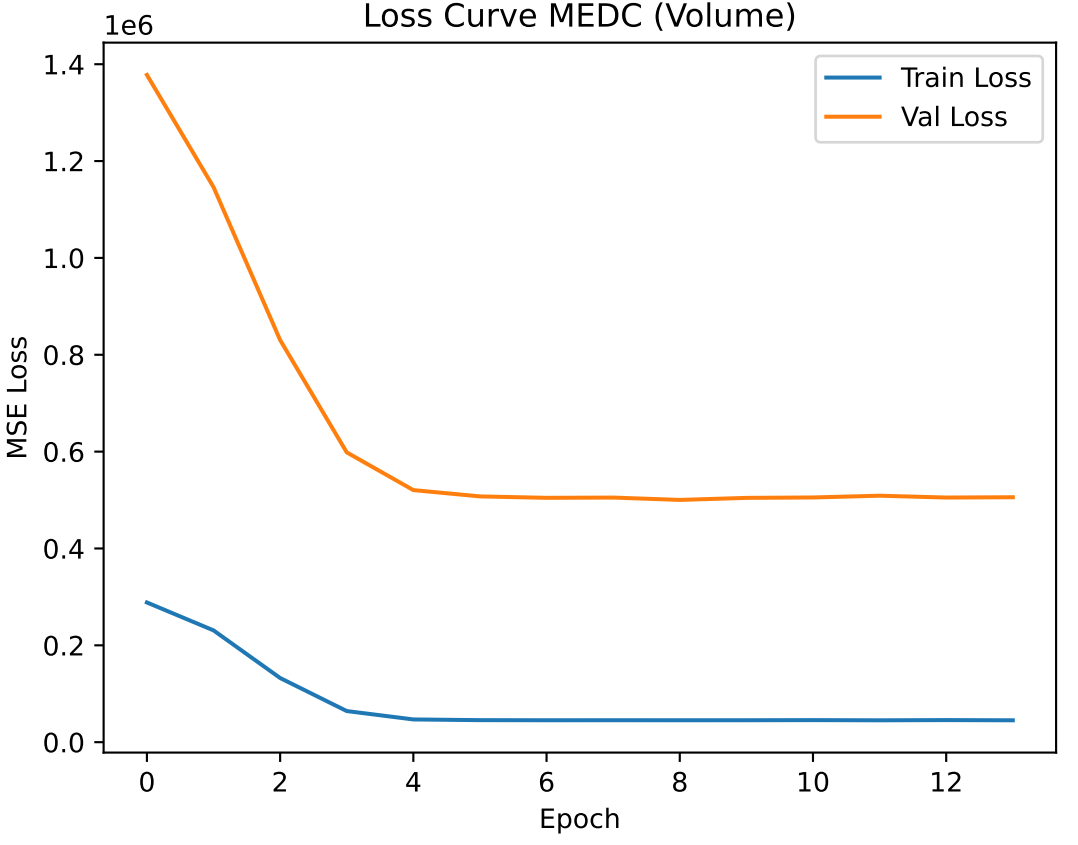

Loss Curve KLBF (Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.5
1.0
1.5
2.0
2.5
0
2
4
6
8
10
12
14

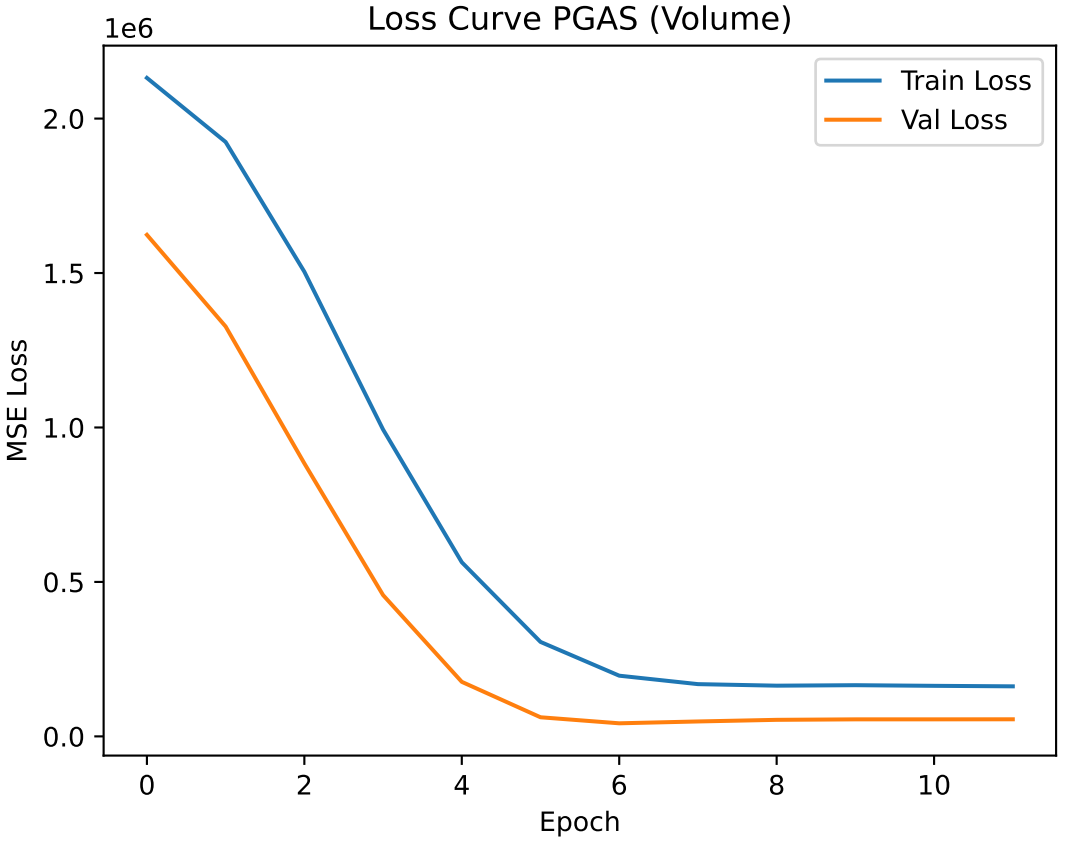

Loss Curve MAPA (Volume)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

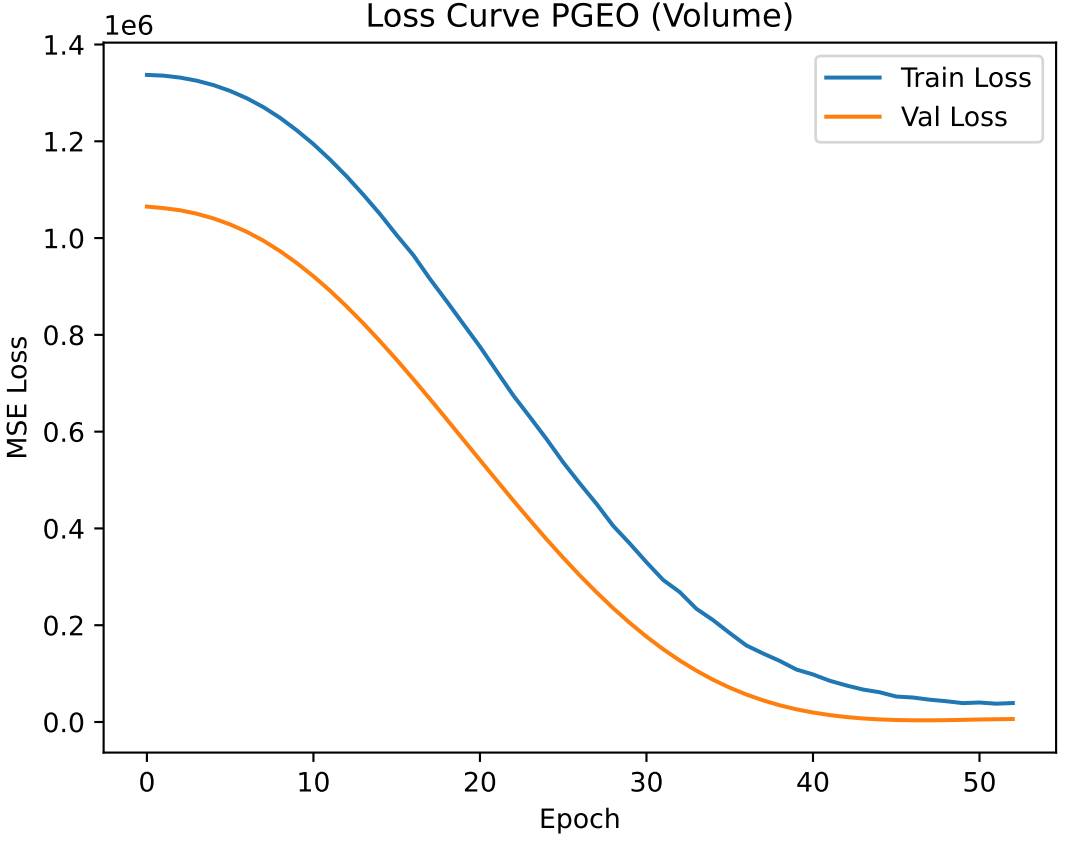

Loss Curve MAPI (Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

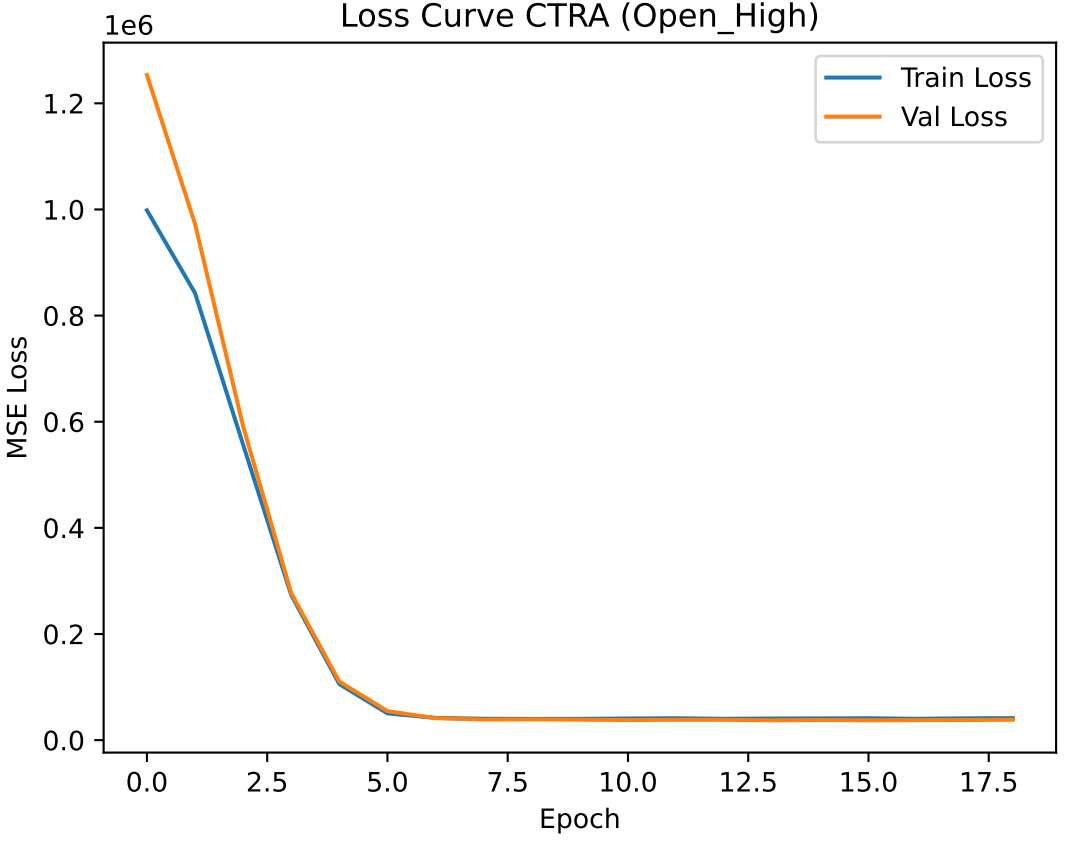

Loss Curve MBMA (Volume)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

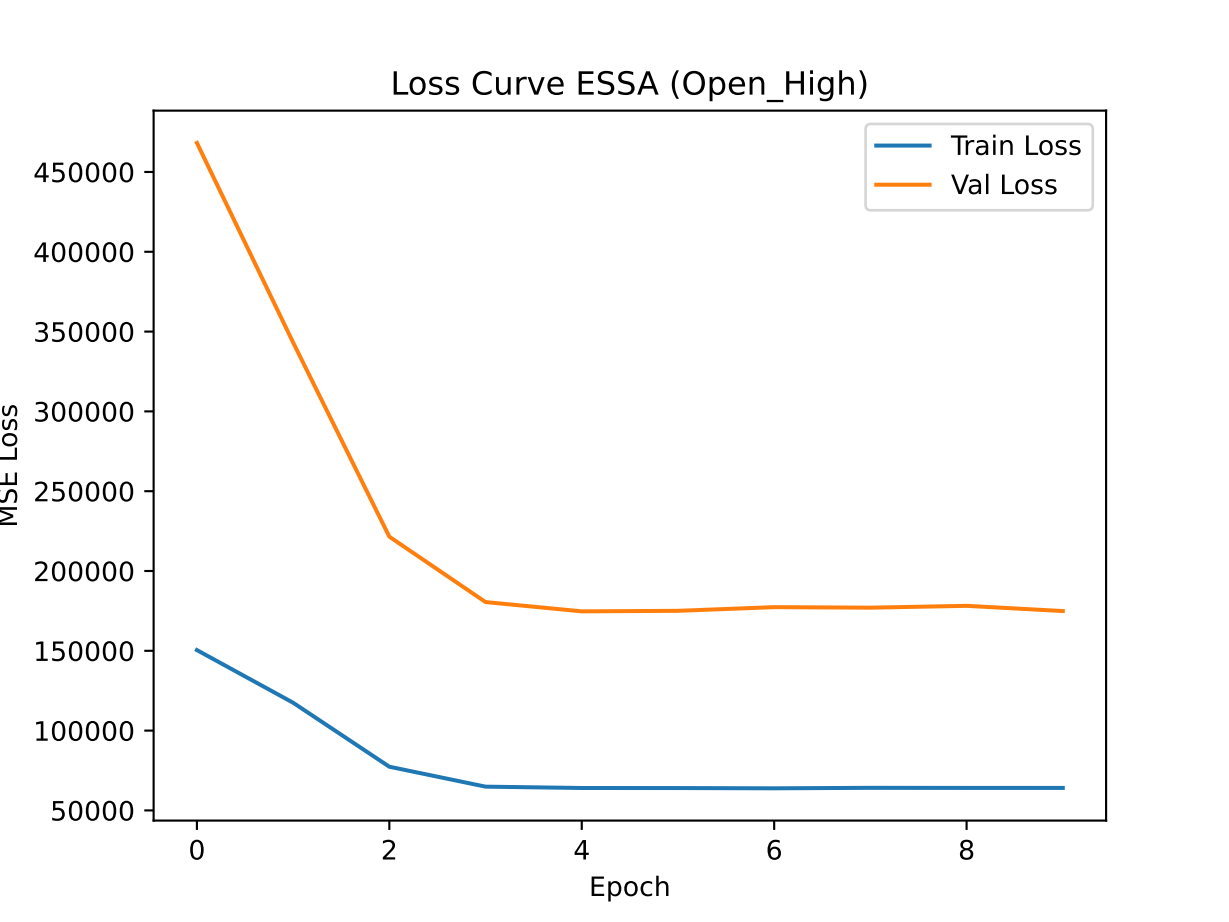

Loss Curve MDKA (Volume)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

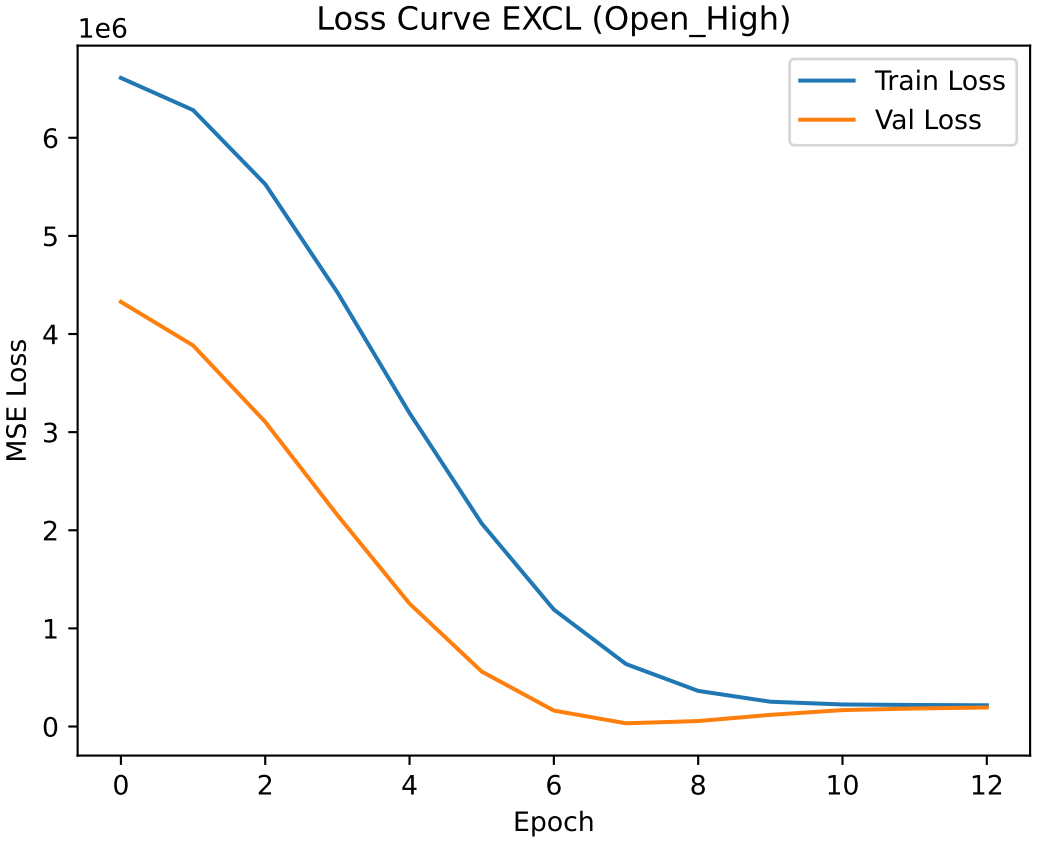

Loss Curve MEDC (Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
Epoch

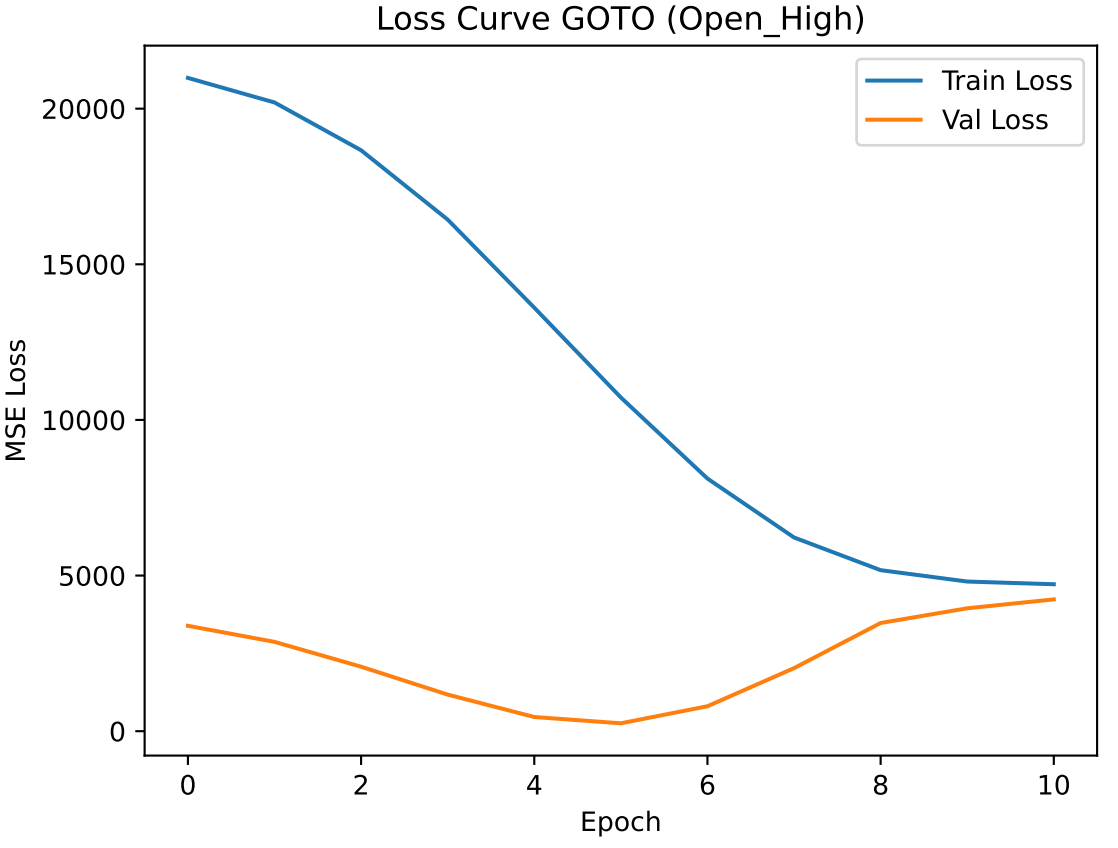

Loss Curve PGAS (Volume)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
Epoch
Train Loss
Val Loss

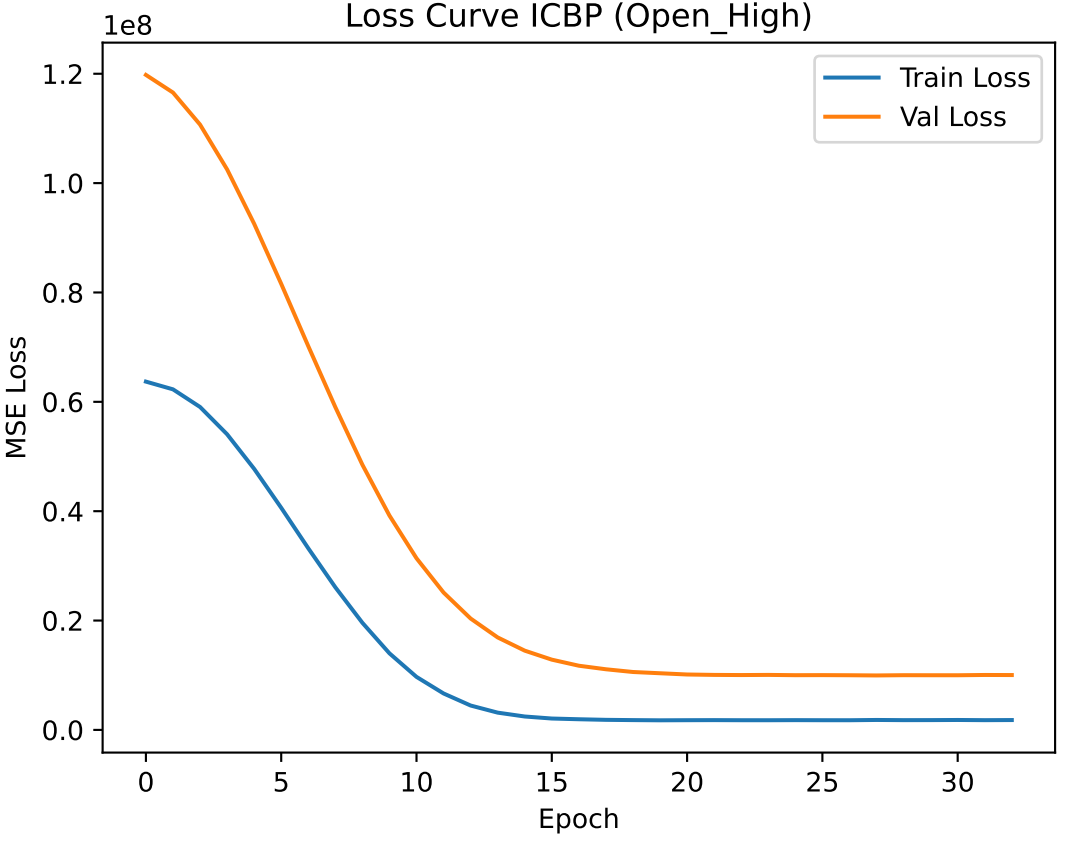

Loss Curve PGEO (Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

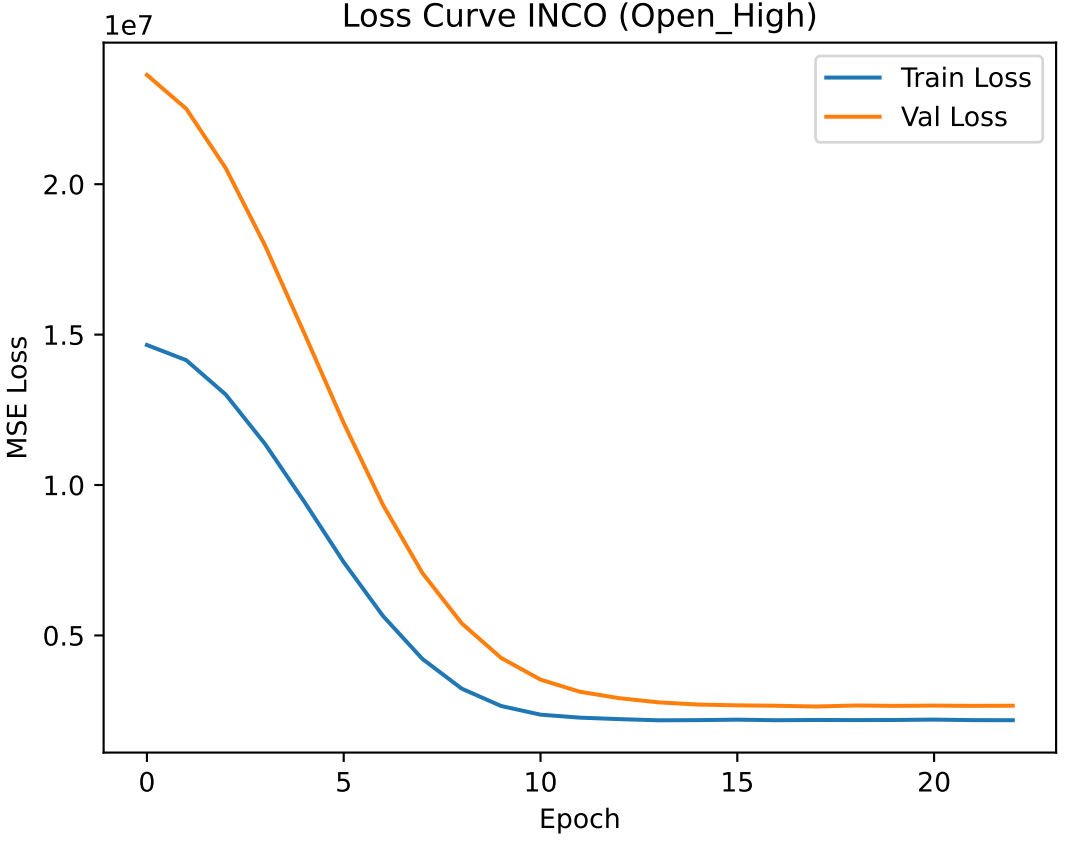

Loss Curve CTRA (Open_High)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

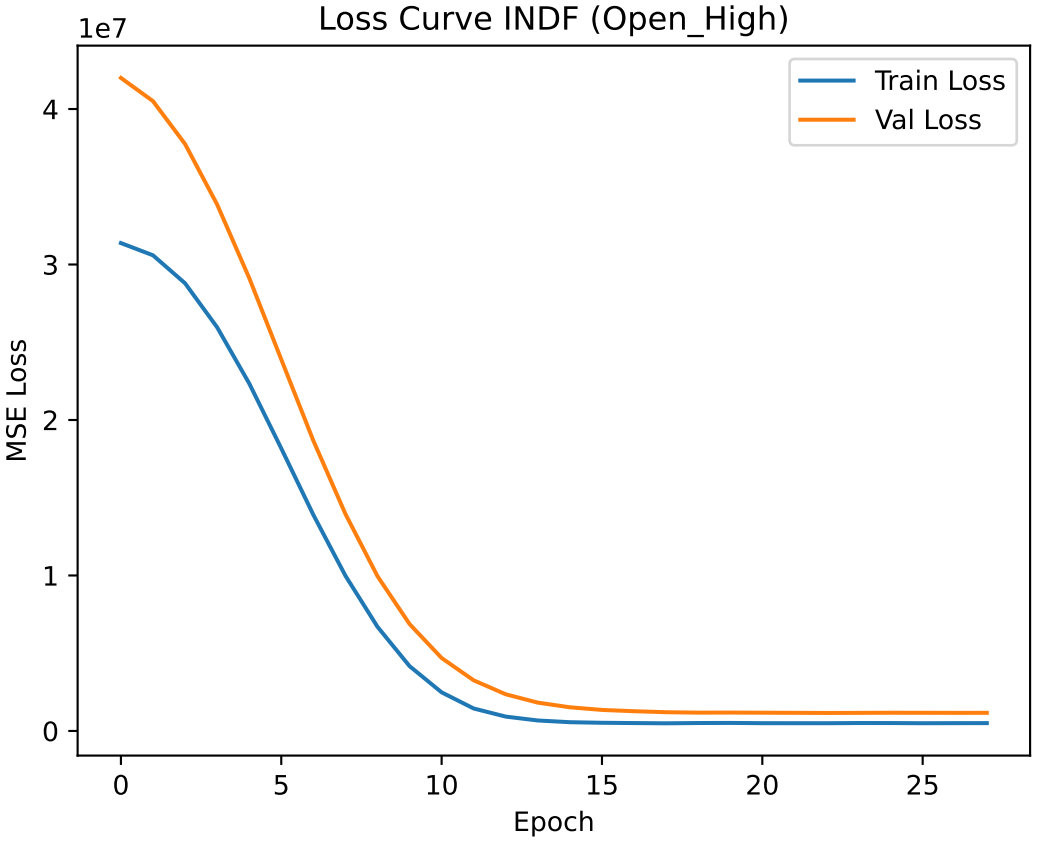

Loss Curve ESSA (Open_High)
Train Loss
Val Loss
MSE Loss
Epoch
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8

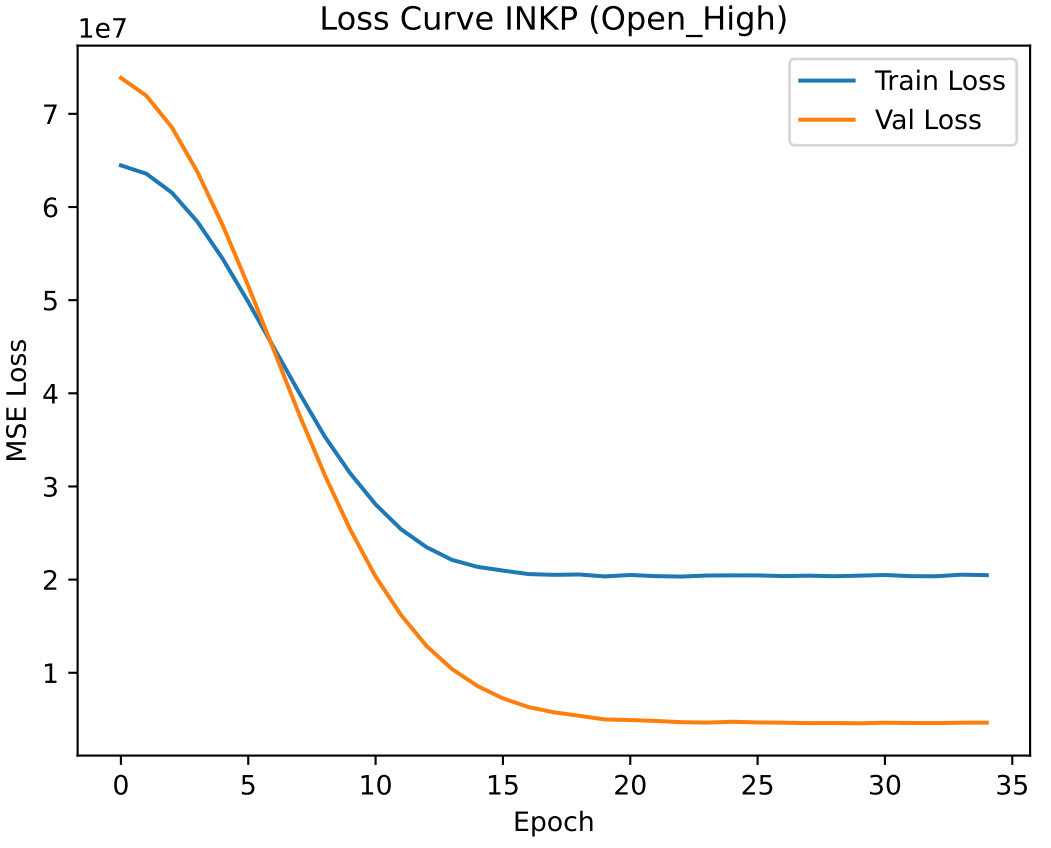

Loss Curve EXCL (Open_High)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

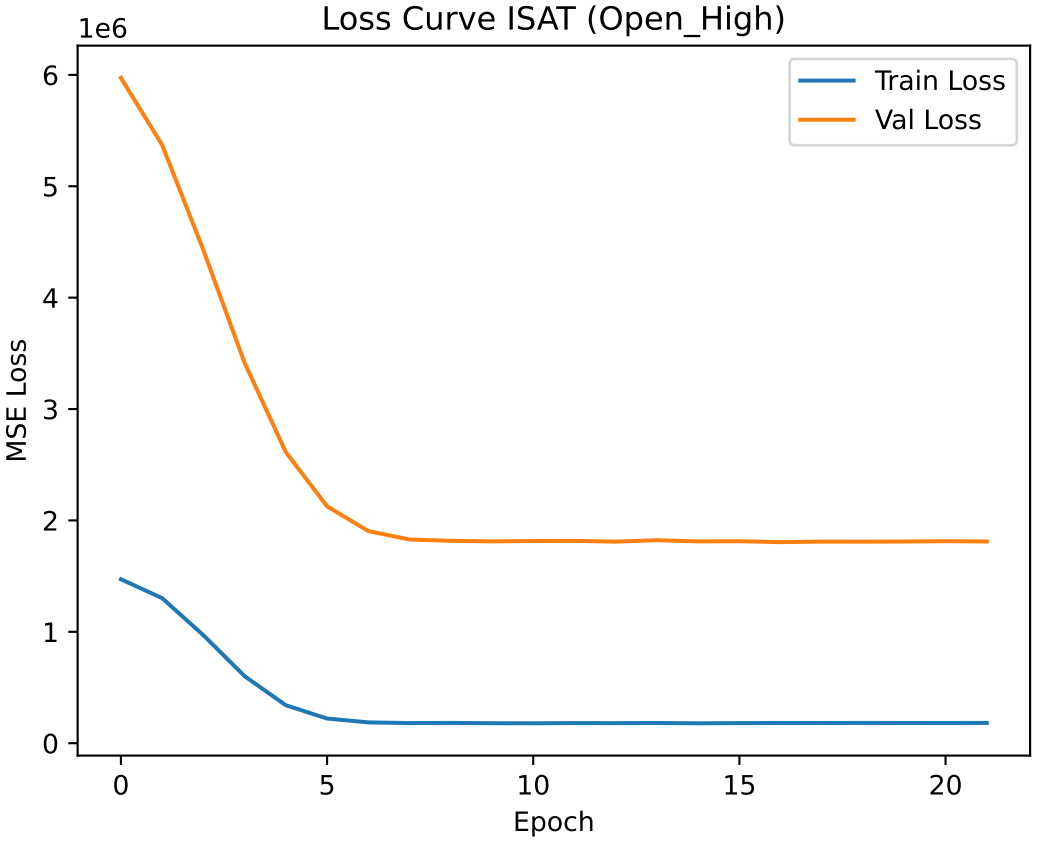

Loss Curve GOTO (Open_High)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

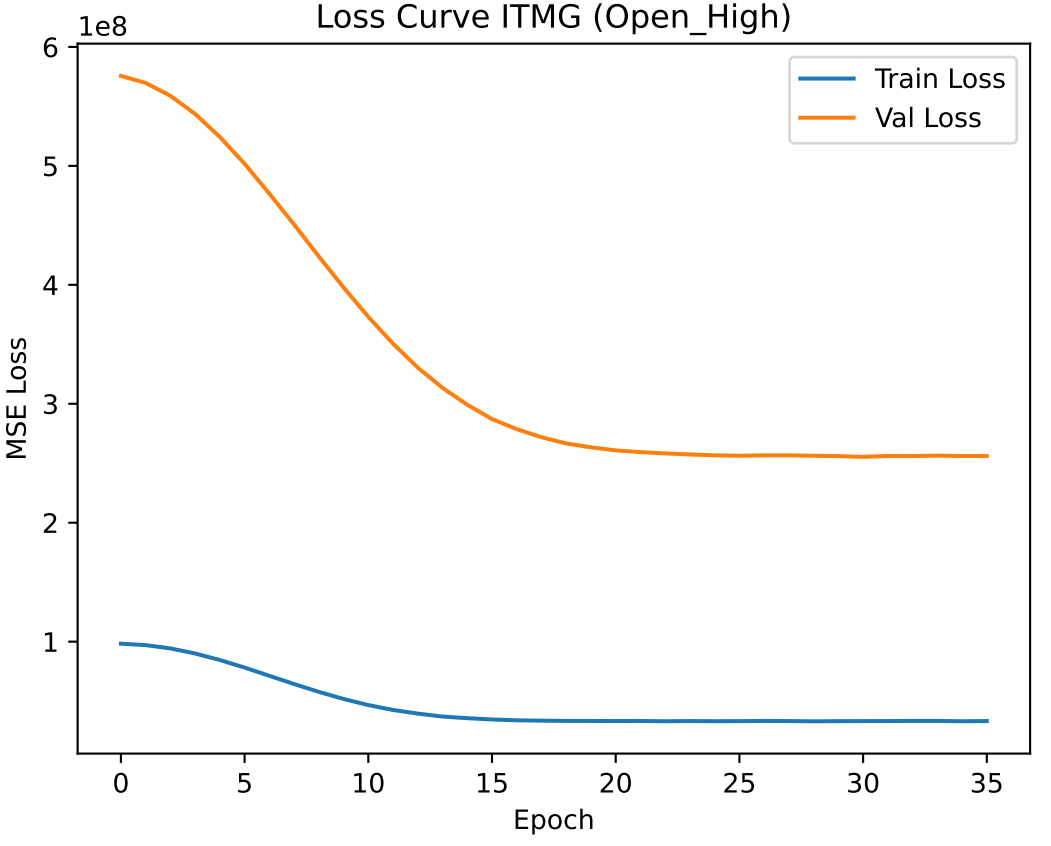

Loss Curve ICBP (Open_High)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch

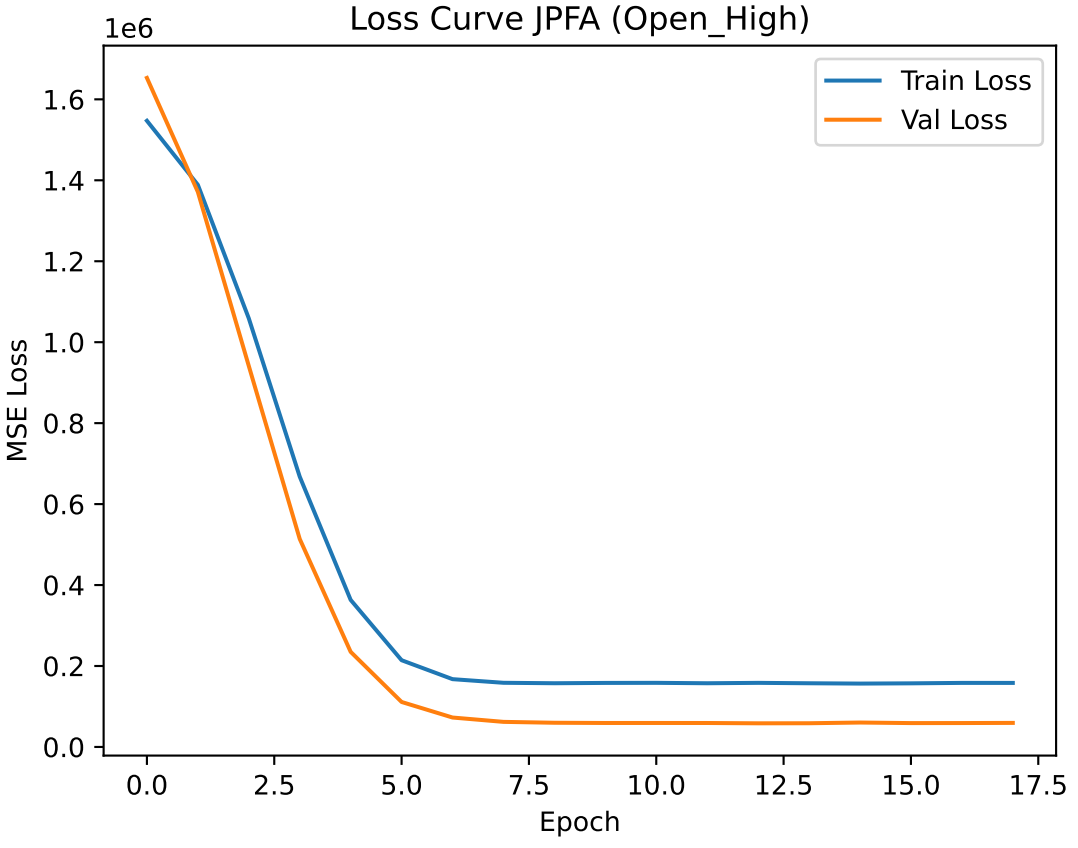

Loss Curve INCO (Open_High)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
Epoch

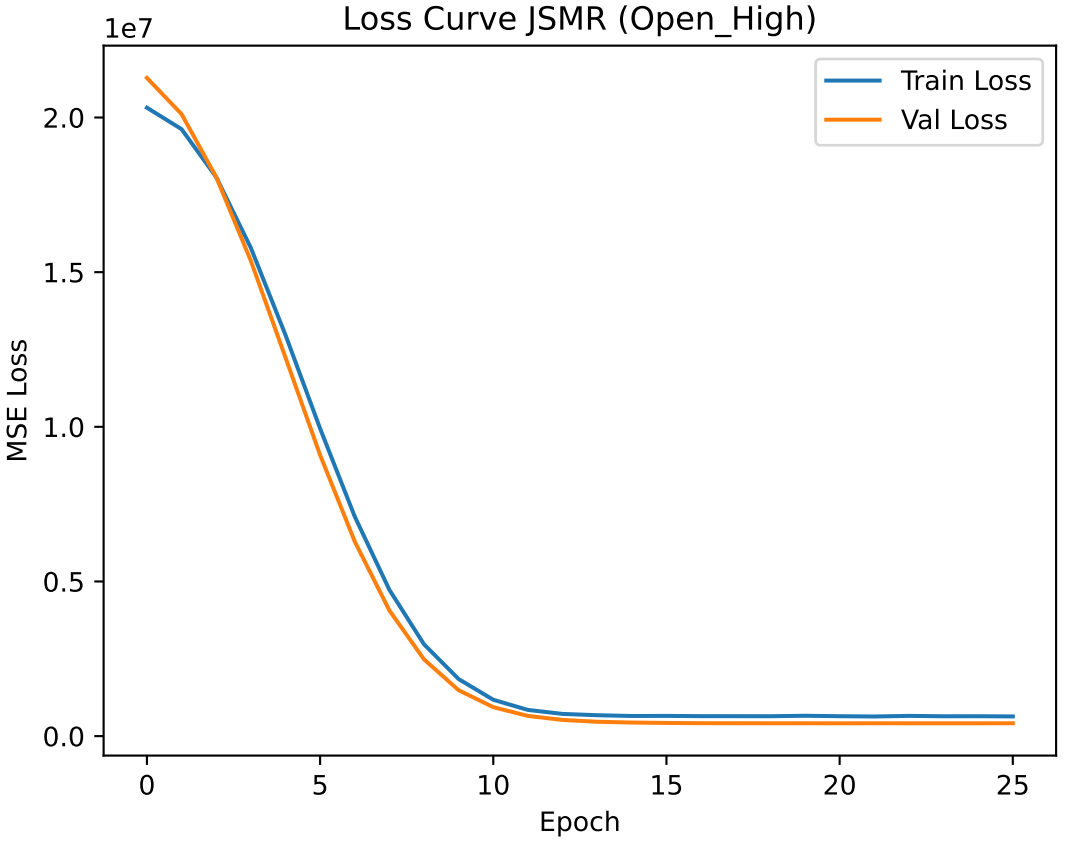

Loss Curve INDF (Open_High)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25

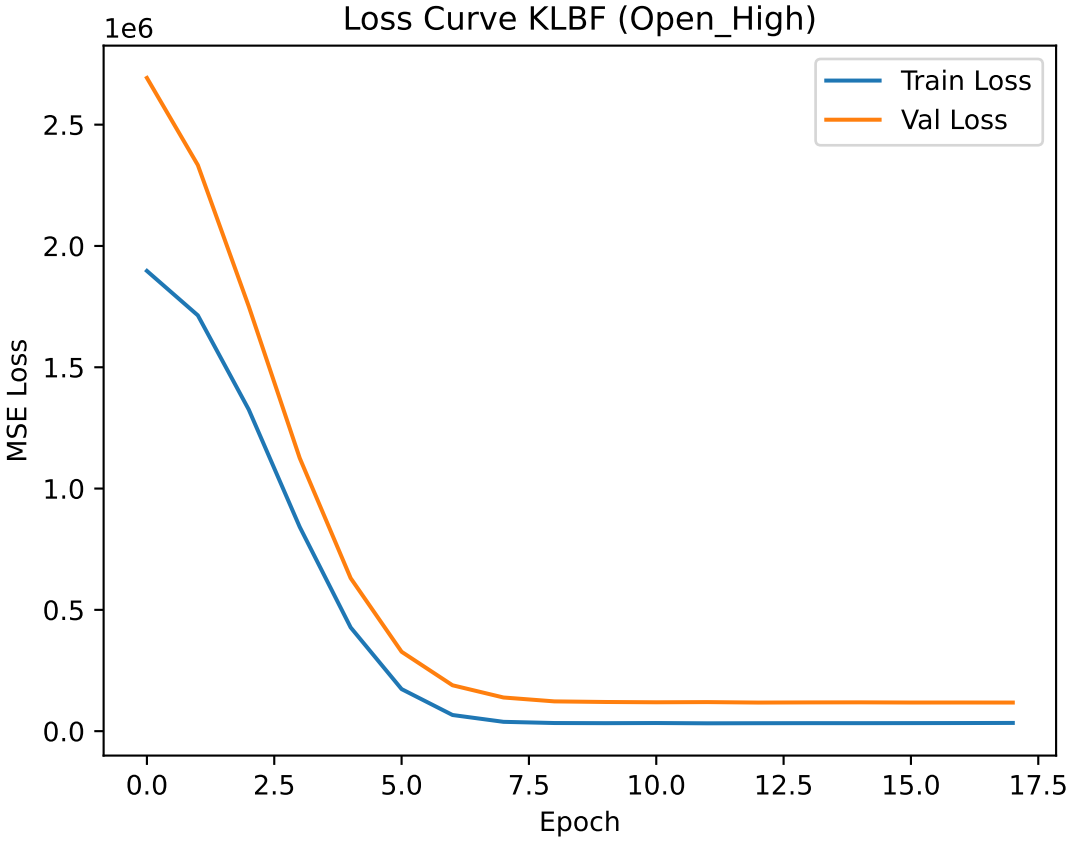

Loss Curve INKP (Open_High)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
35
1
2
3
4
5
6
7

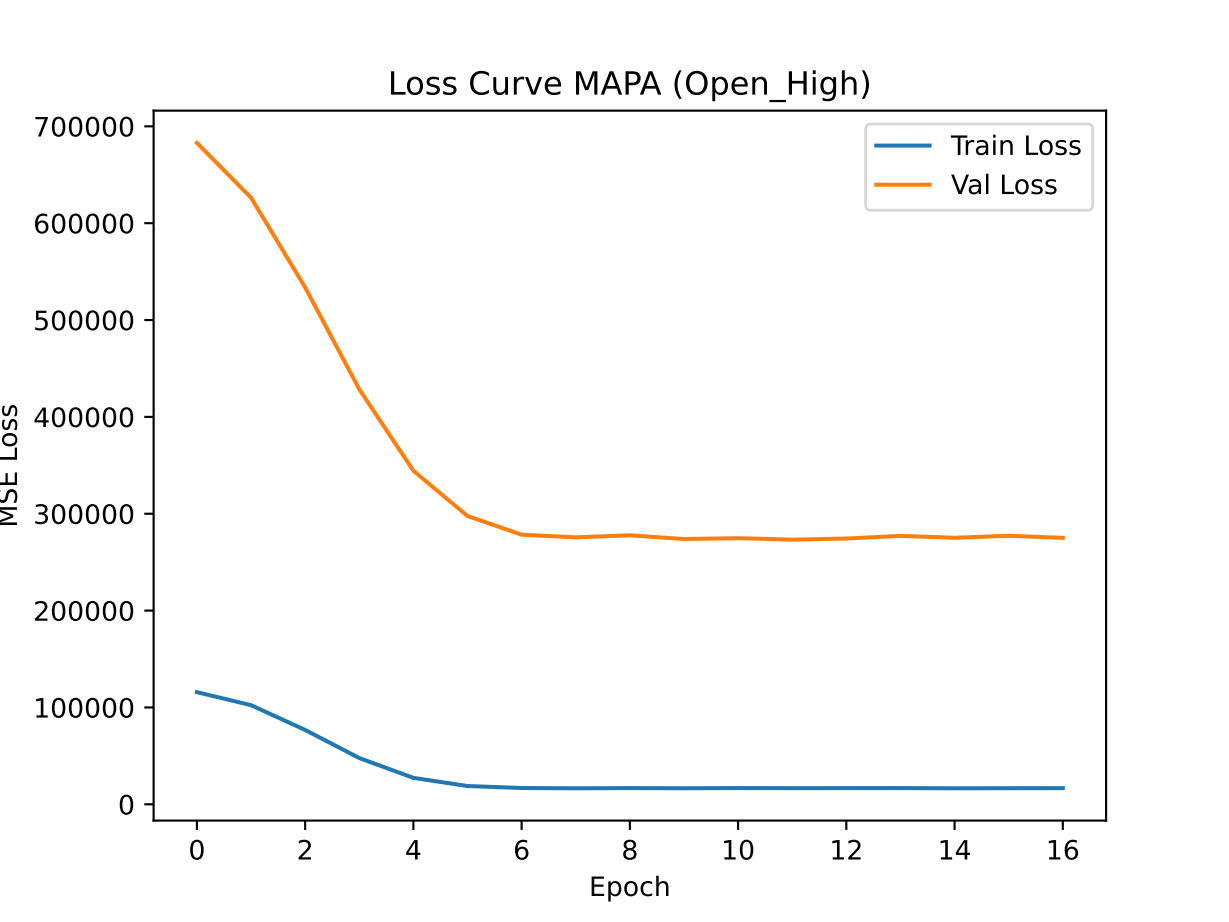

Loss Curve ISAT (Open_High)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
0
5
10
15
20

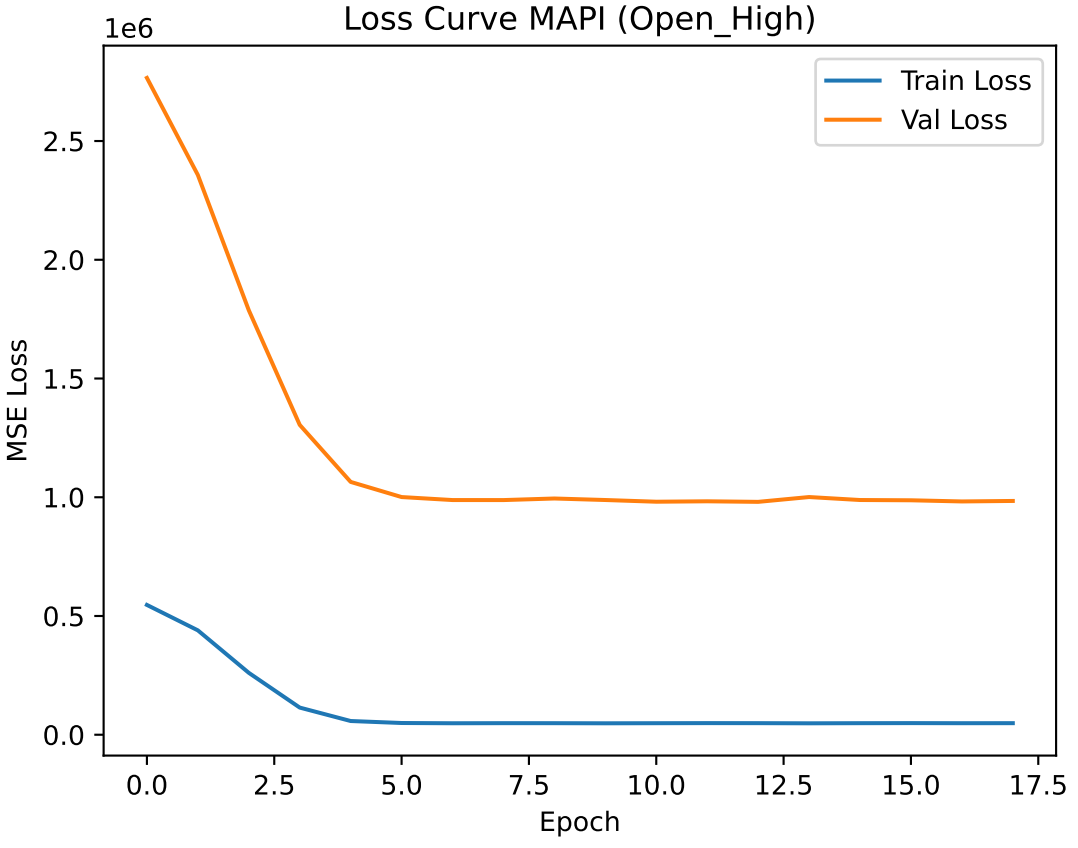

Loss Curve ITMG (Open_High)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

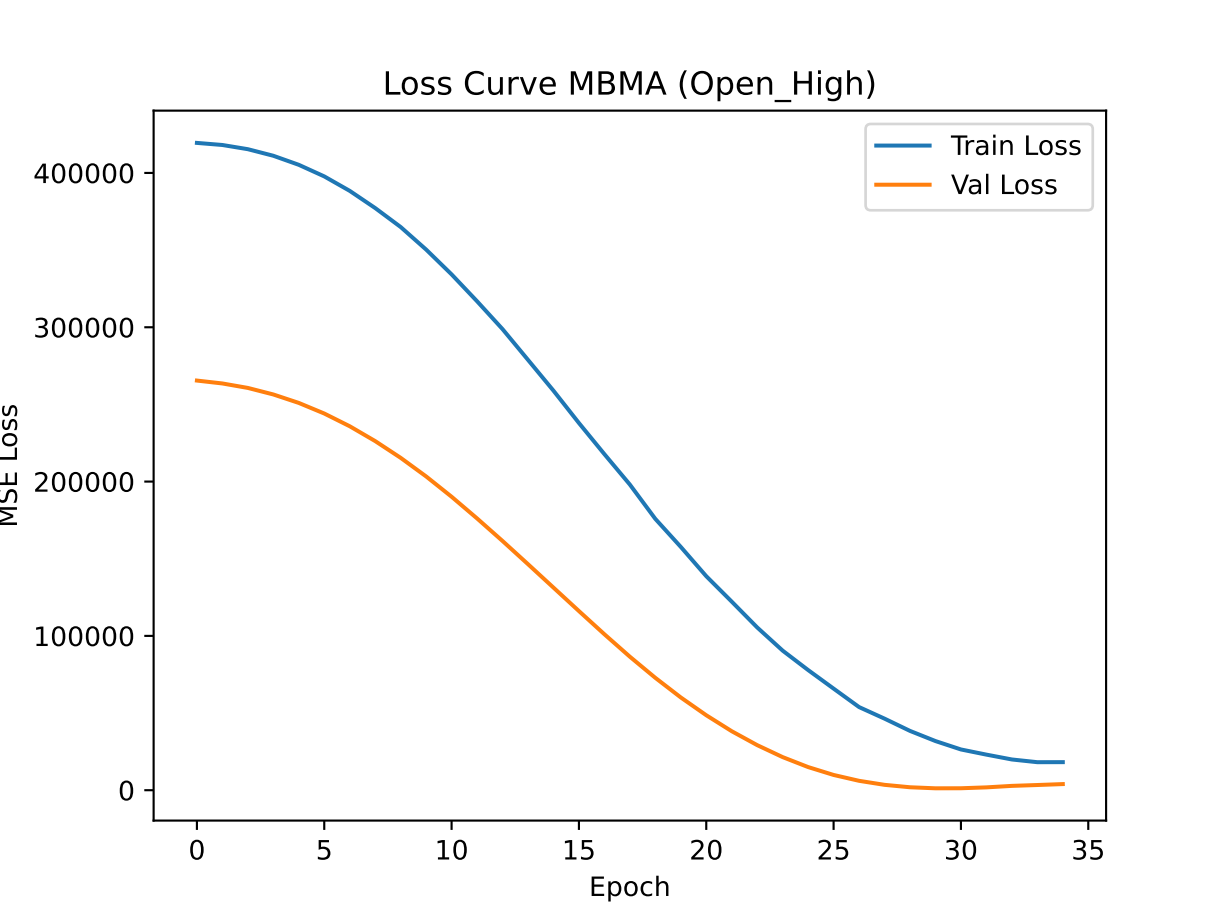

Loss Curve JPFA (Open_High)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

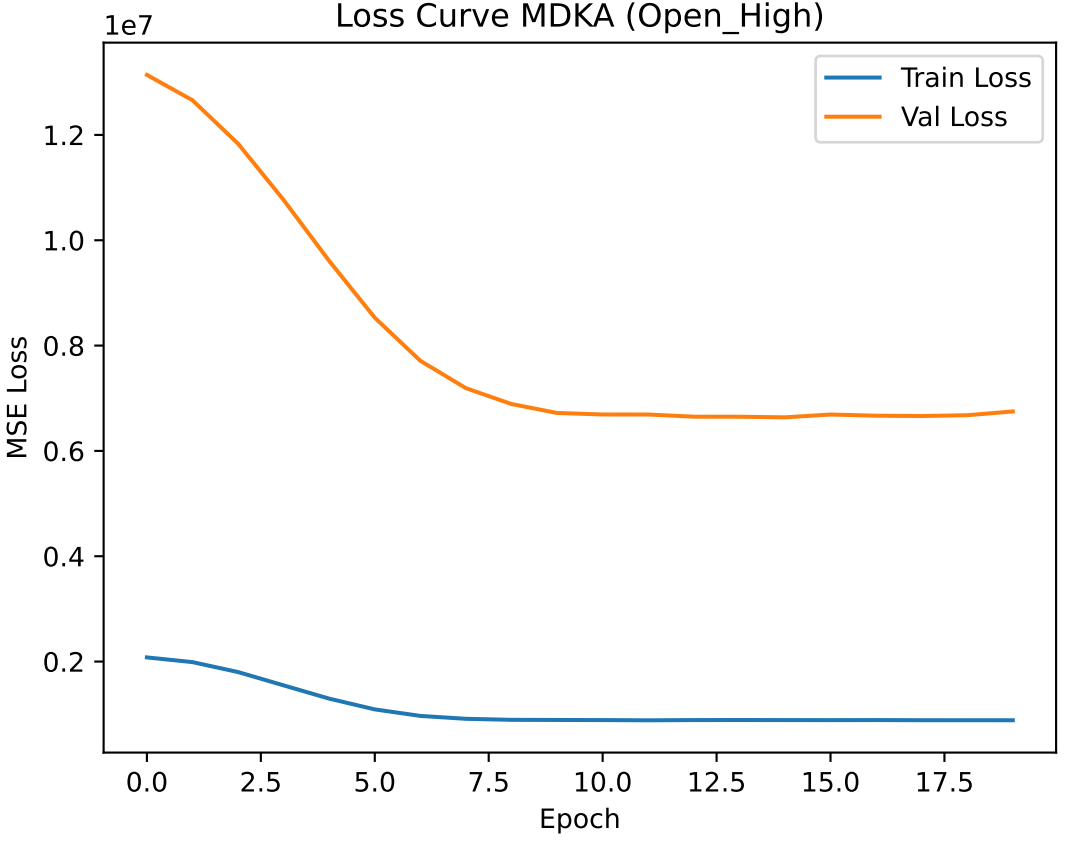

Loss Curve JSMR (Open_High)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

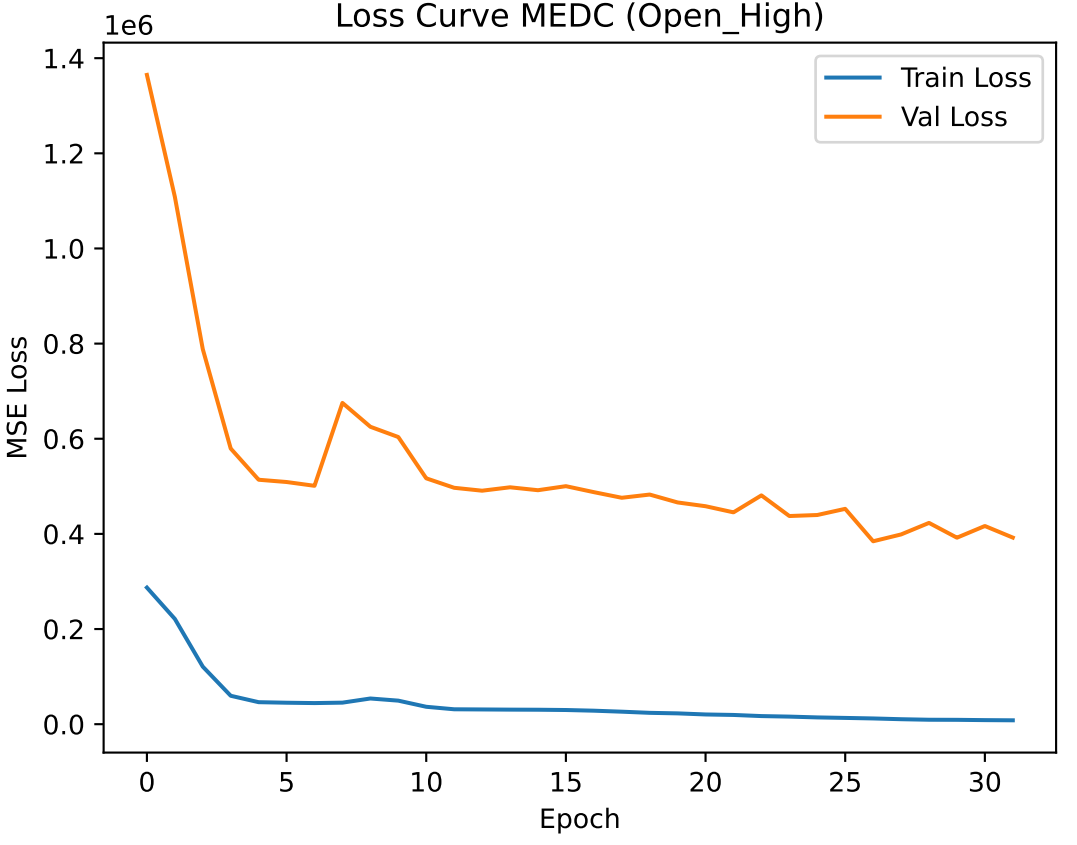

Loss Curve KLBF (Open_High)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

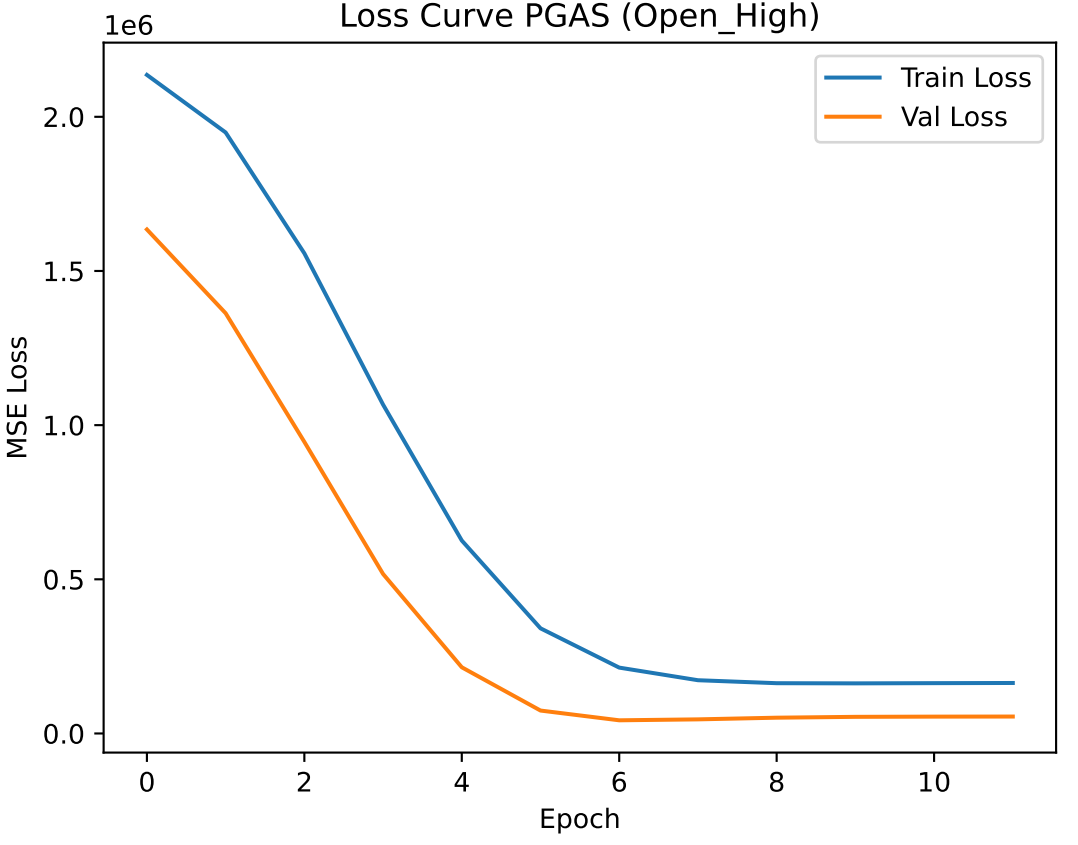

Loss Curve MAPA (Open_High)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14
16

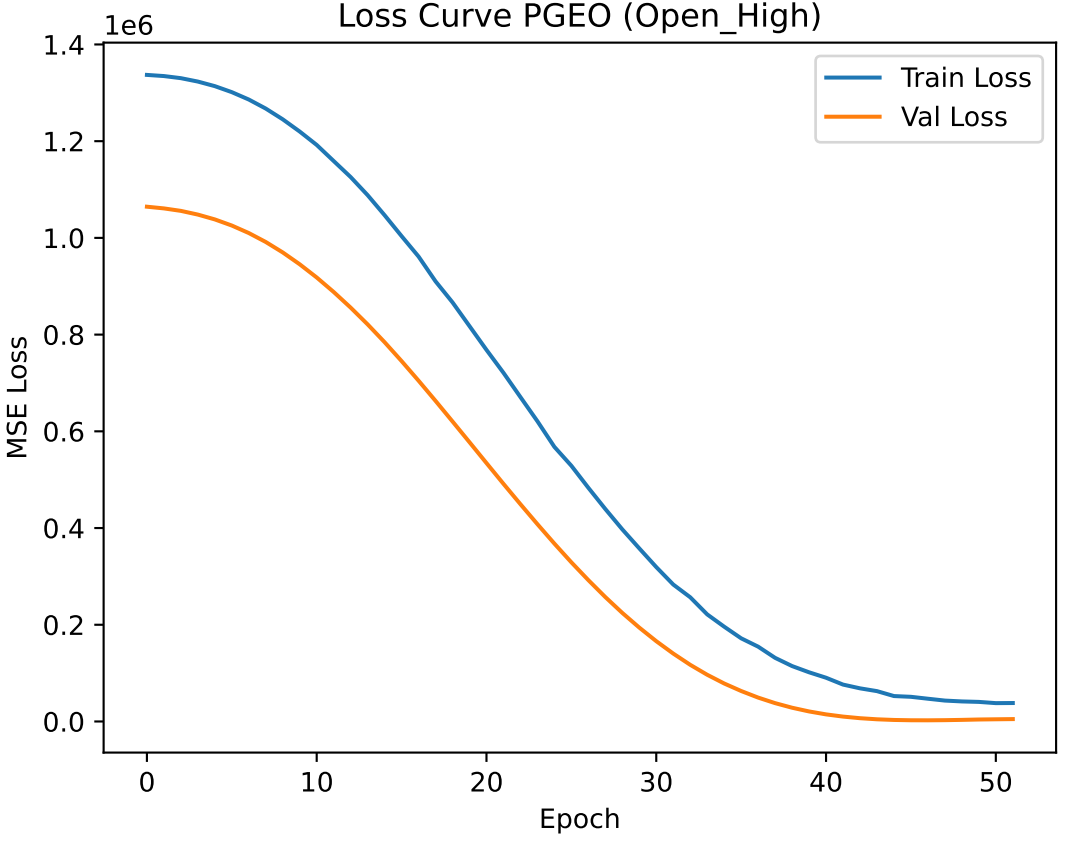

Loss Curve MAPI (Open_High)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

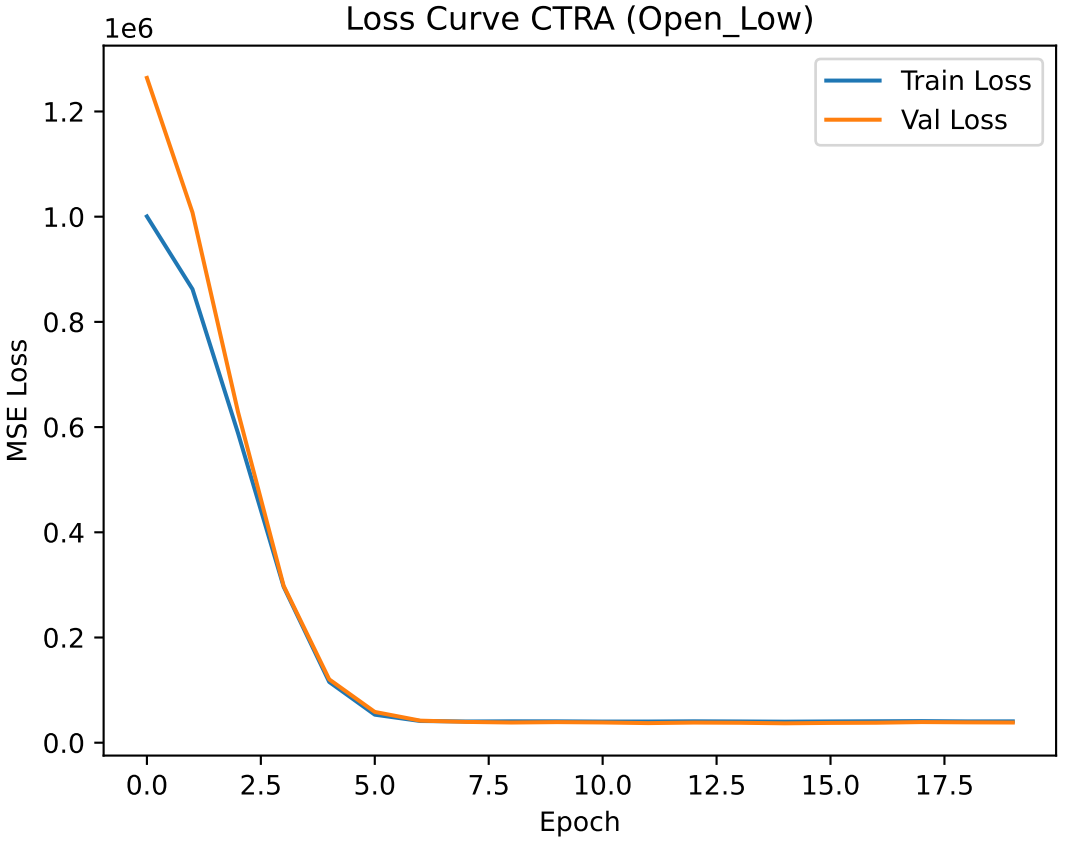

Loss Curve MBMA (Open_High)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

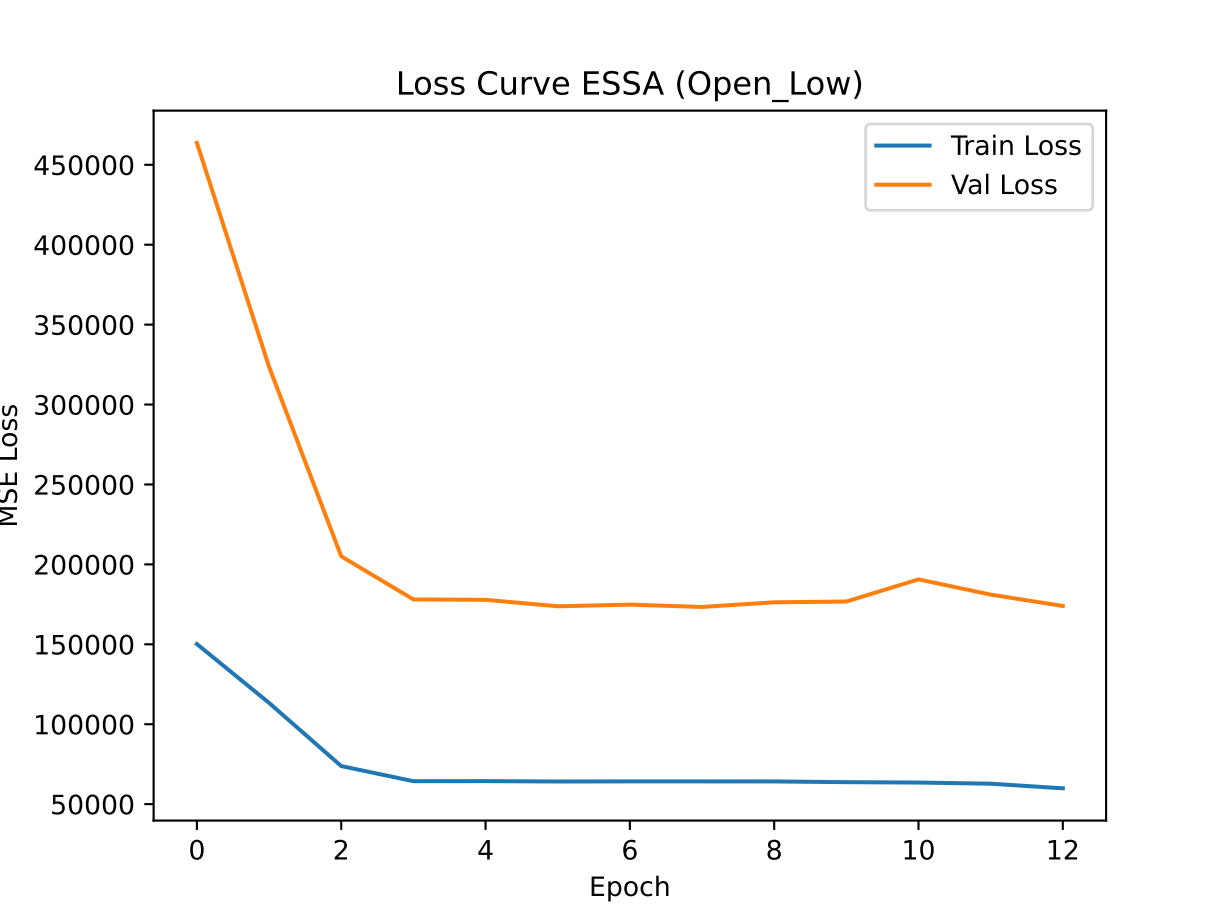

Loss Curve MDKA (Open_High)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

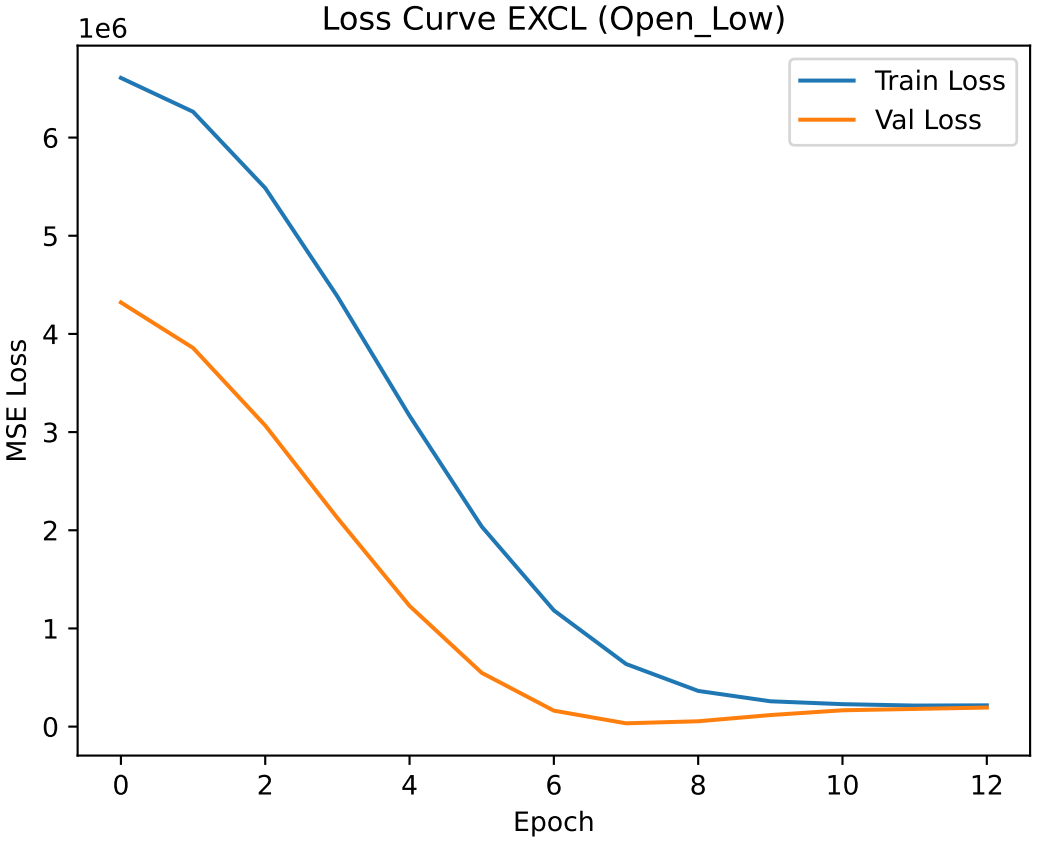

Loss Curve MEDC (Open_High)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

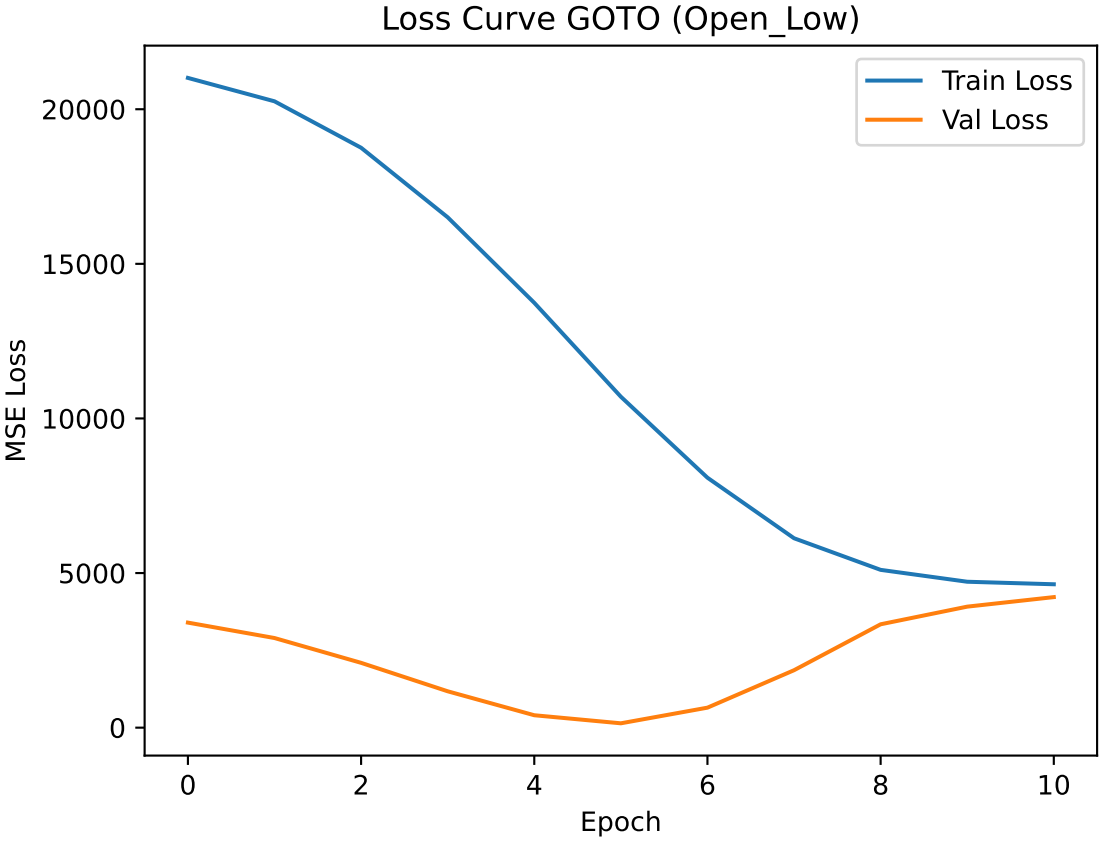

Loss Curve PGAS (Open_High)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

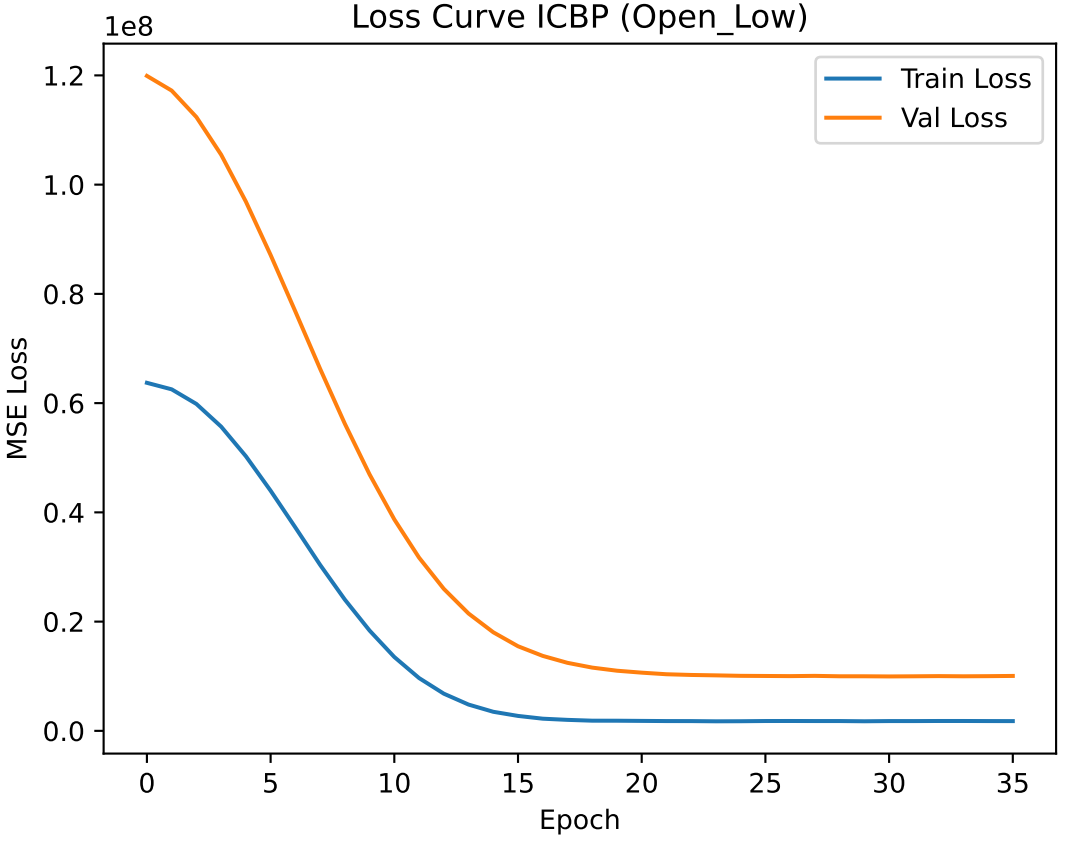

Loss Curve PGEO (Open_High)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

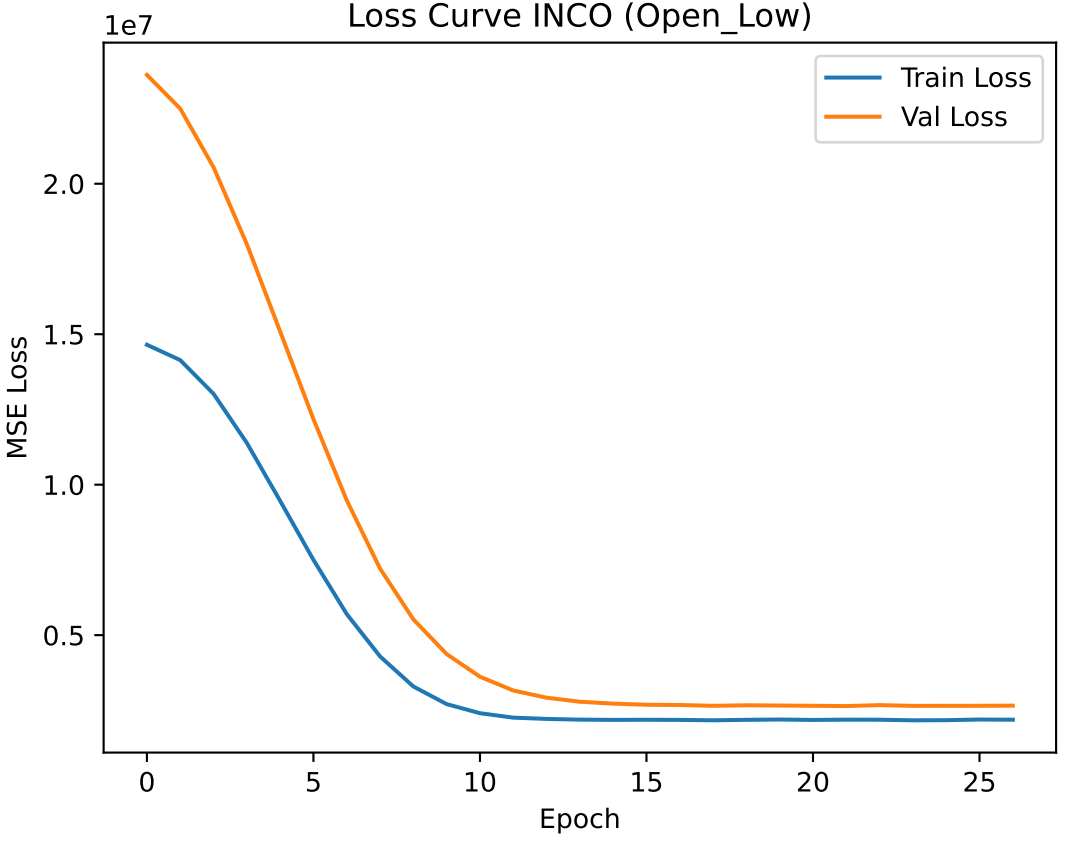

Loss Curve CTRA (Open_Low)
1e6
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

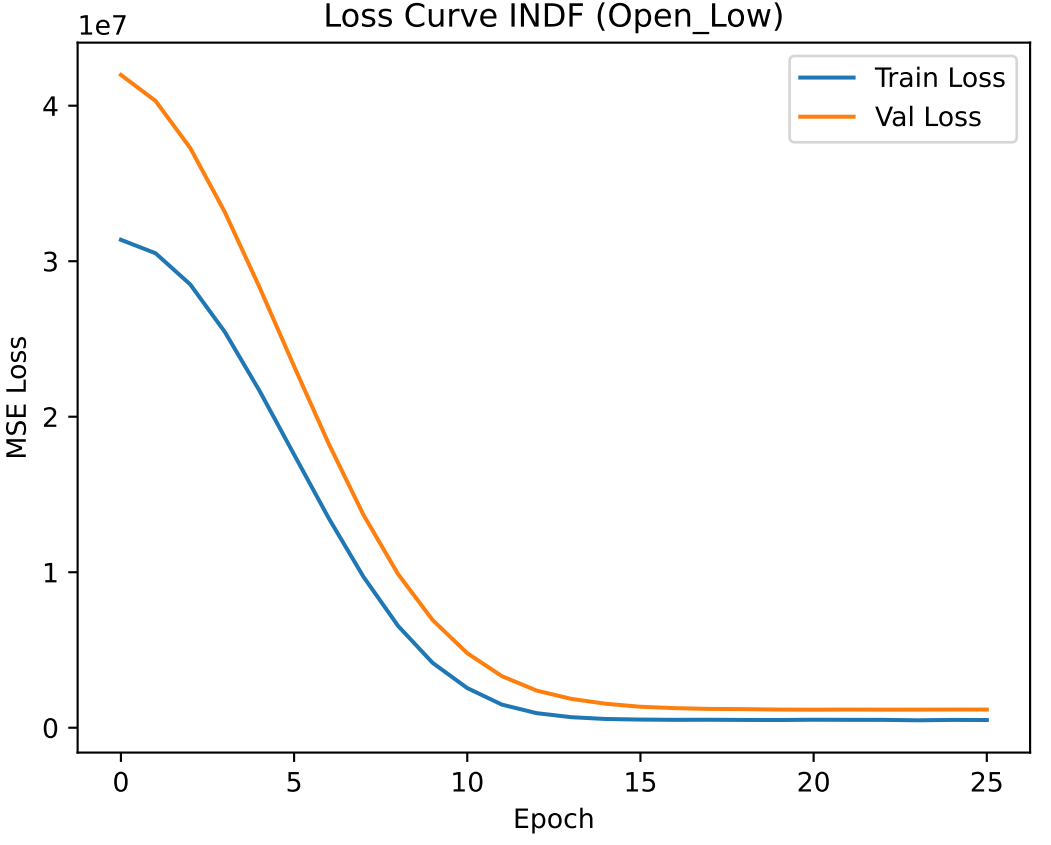

Loss Curve ESSA (Open_Low)
Train Loss
Val Loss
MSE Loss
Epoch
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8
10
12

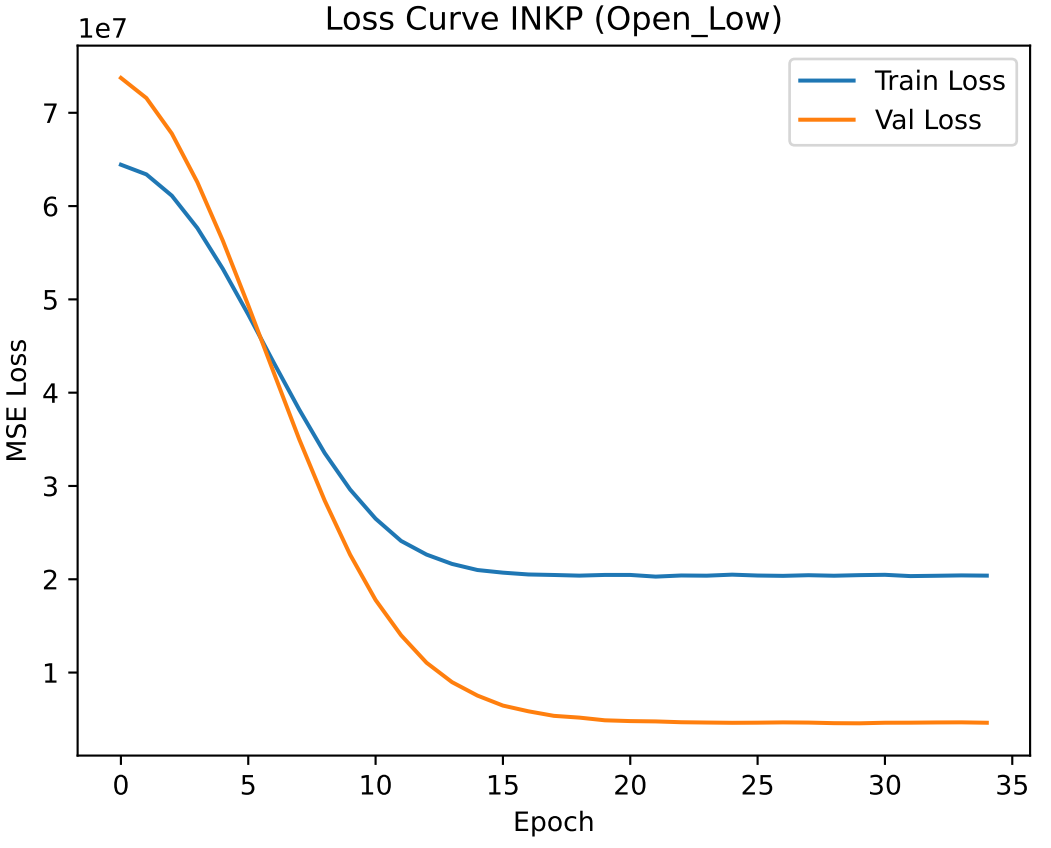

Loss Curve EXCL (Open_Low)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

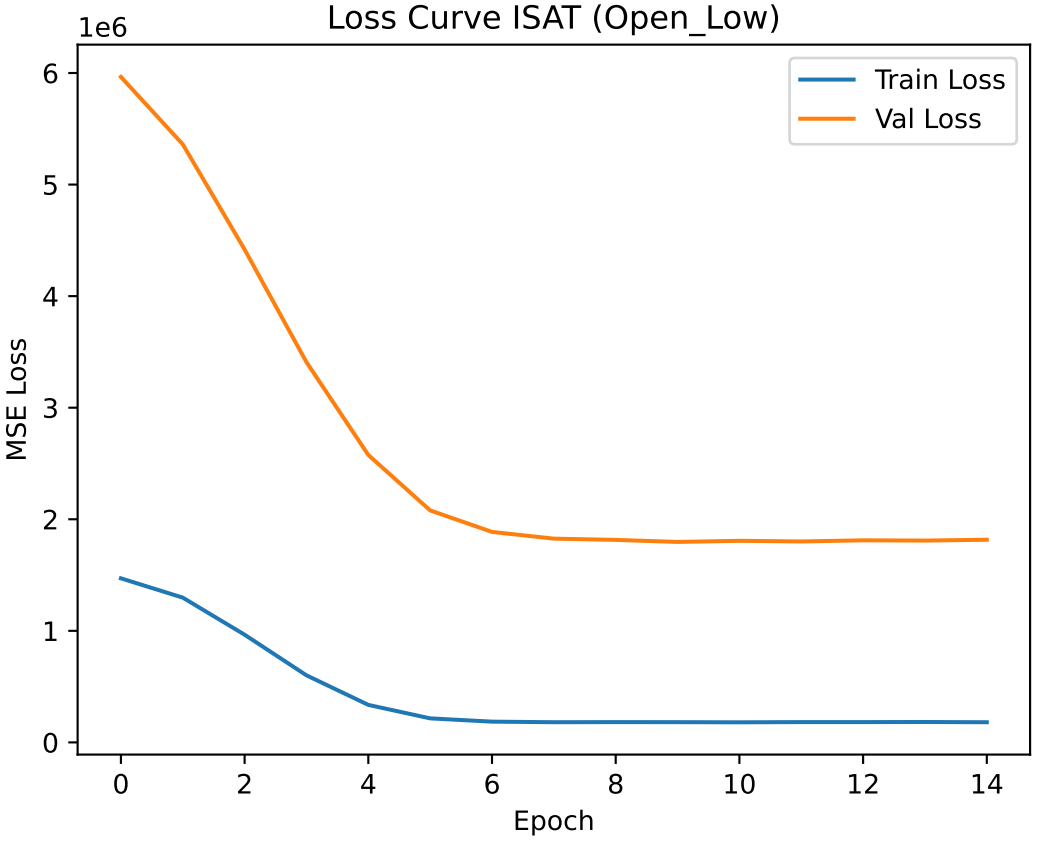

Loss Curve GOTO (Open_Low)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

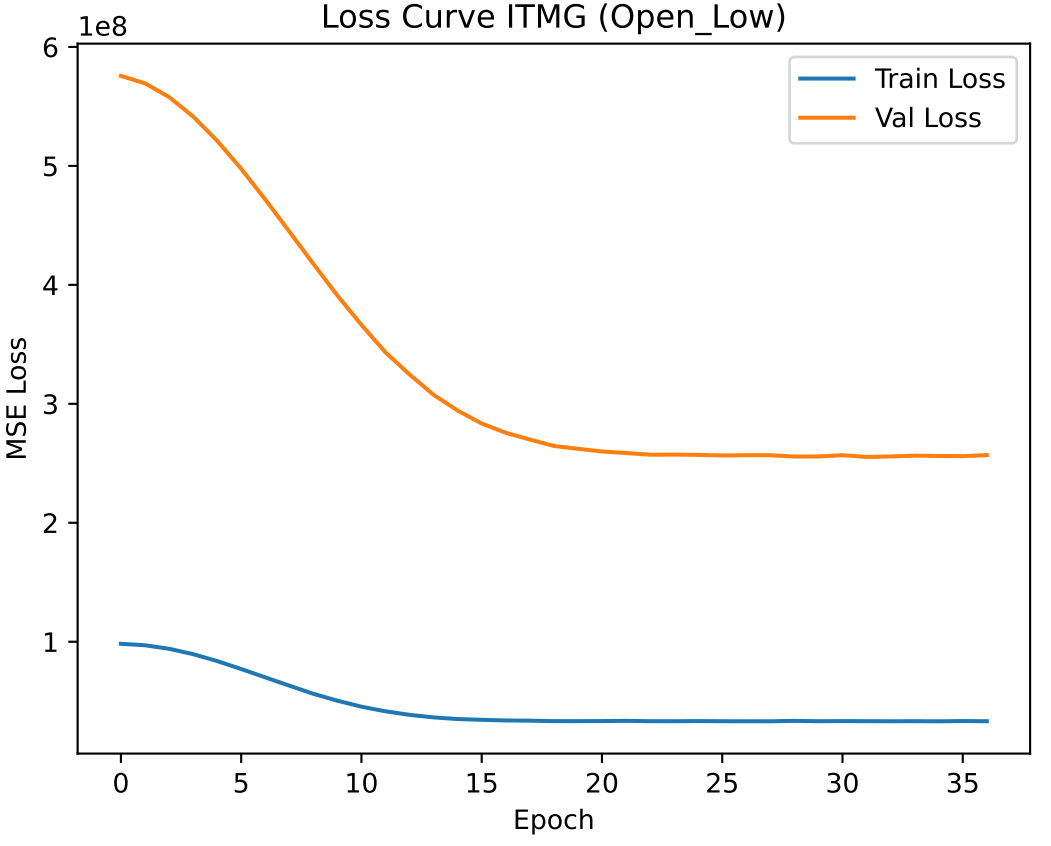

Loss Curve ICBP (Open_Low)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

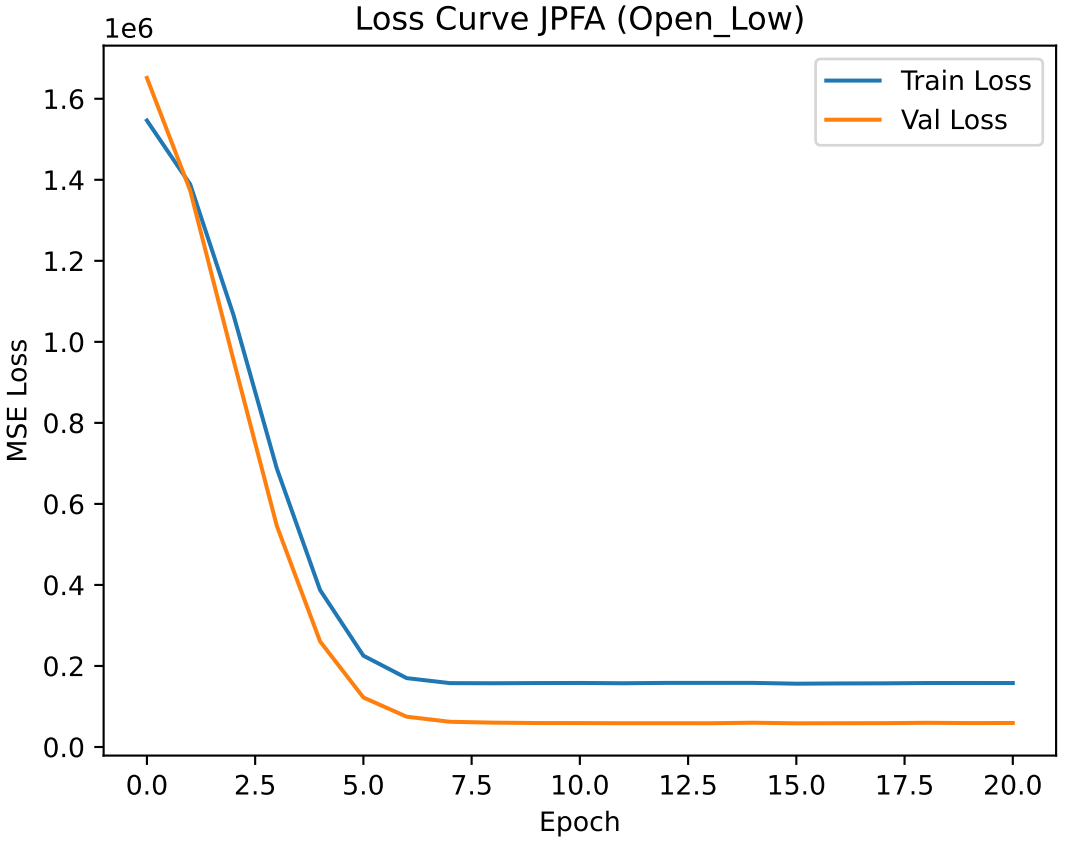

Loss Curve INCO (Open_Low)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
Epoch

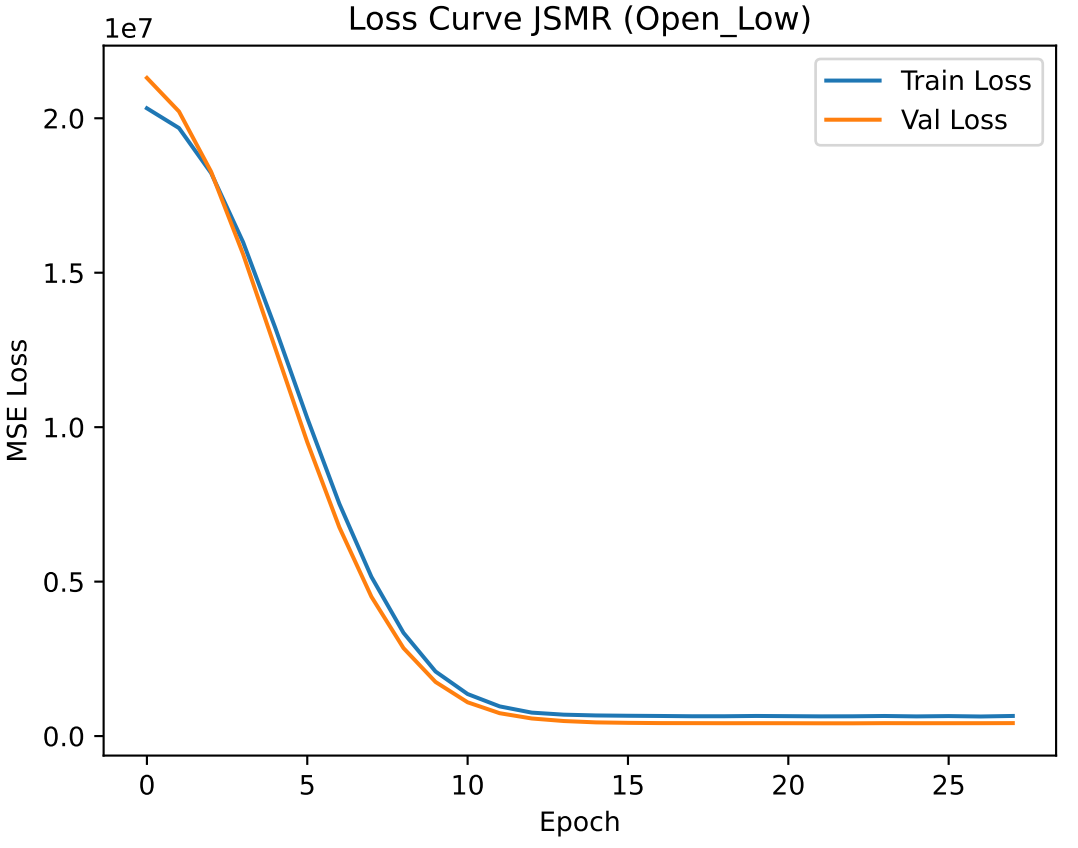

Loss Curve INDF (Open_Low)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25

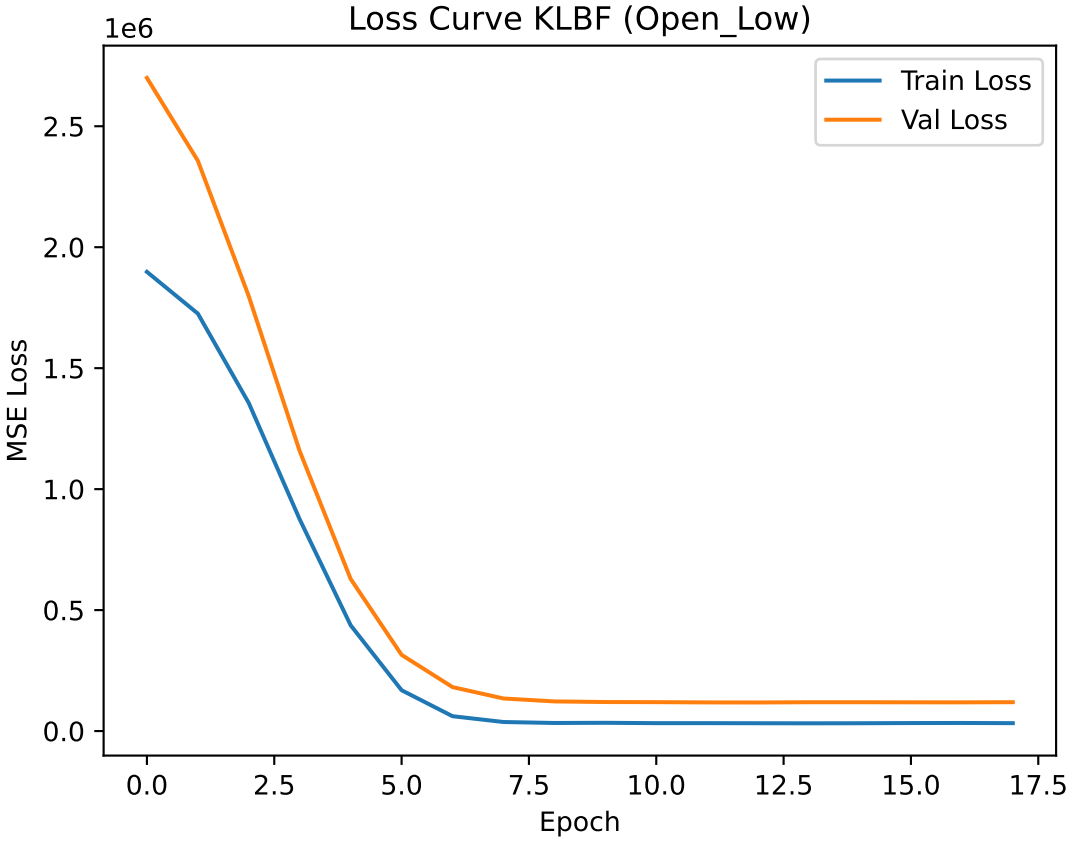

Loss Curve INKP (Open_Low)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
35
1
2
3
4
5
6
7

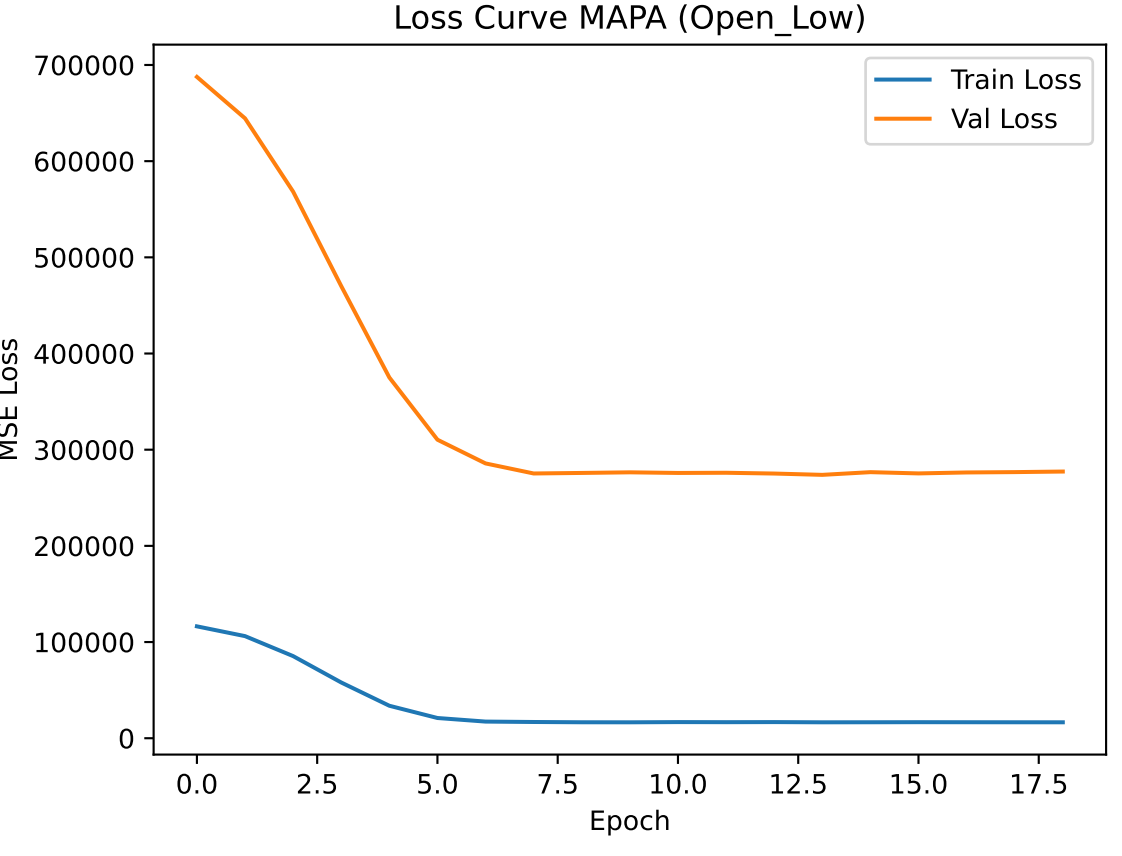

Loss Curve ISAT (Open_Low)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14

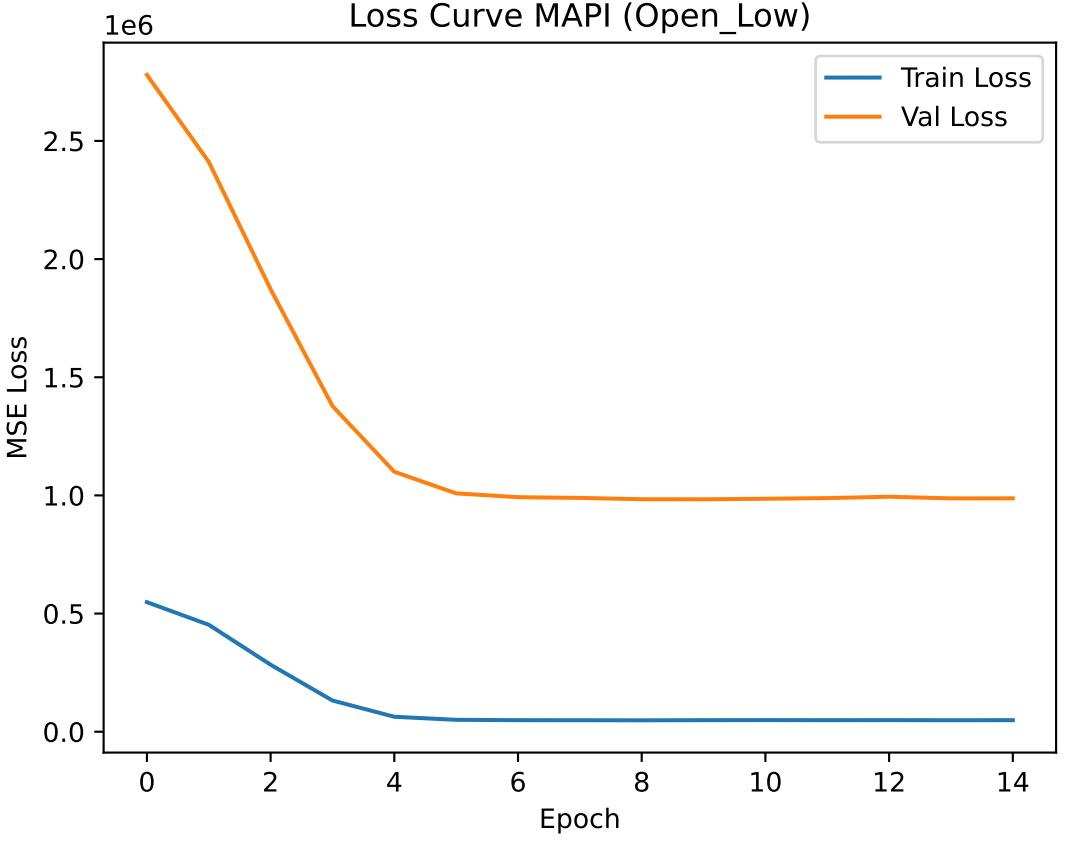

Loss Curve ITMG (Open_Low)
1e8
6
5
4
3
2
1
MSE Loss
0
5
10
15
20
25
30
35
Epoch
Train Loss
Val Loss

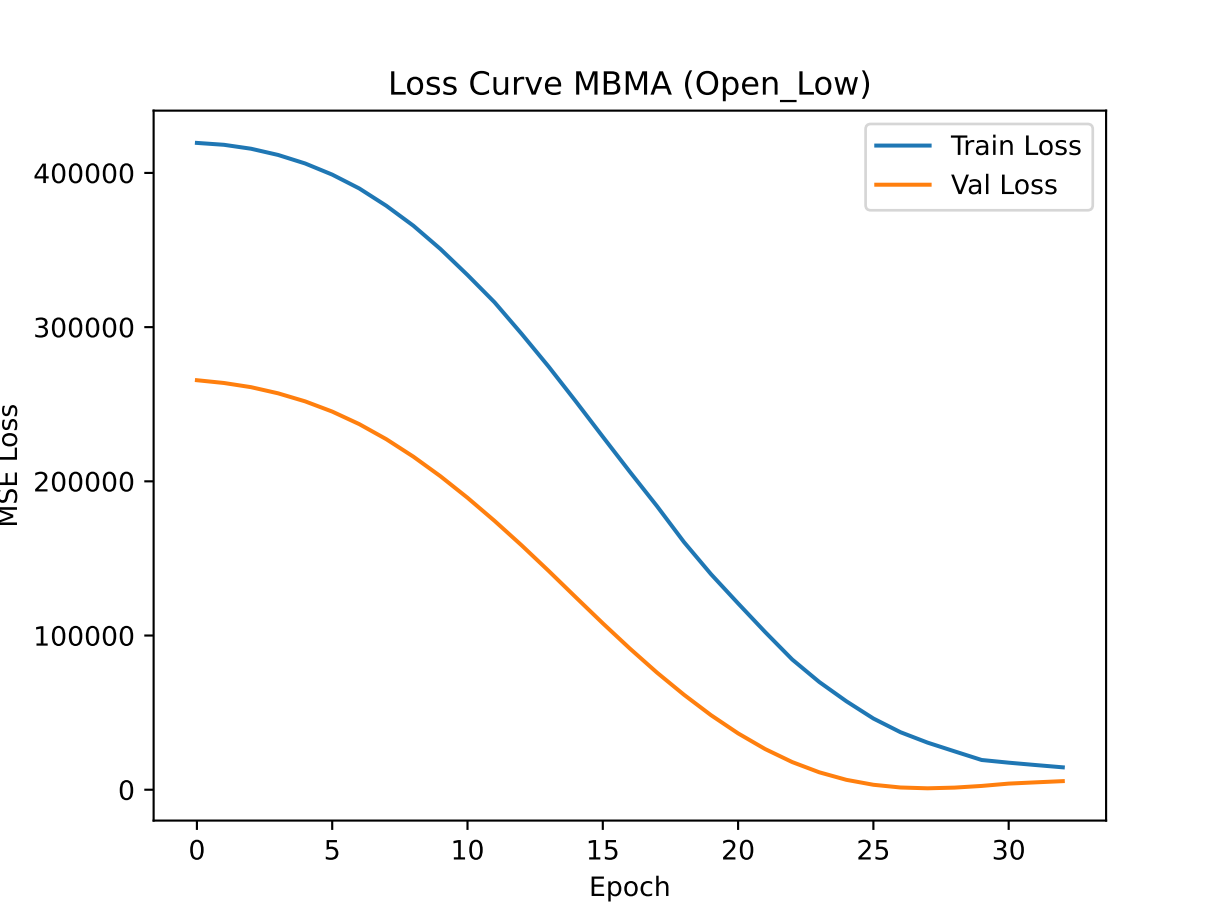

Loss Curve JPFA (Open_Low)
1e6
Train Loss
Val Loss
MSE Loss
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

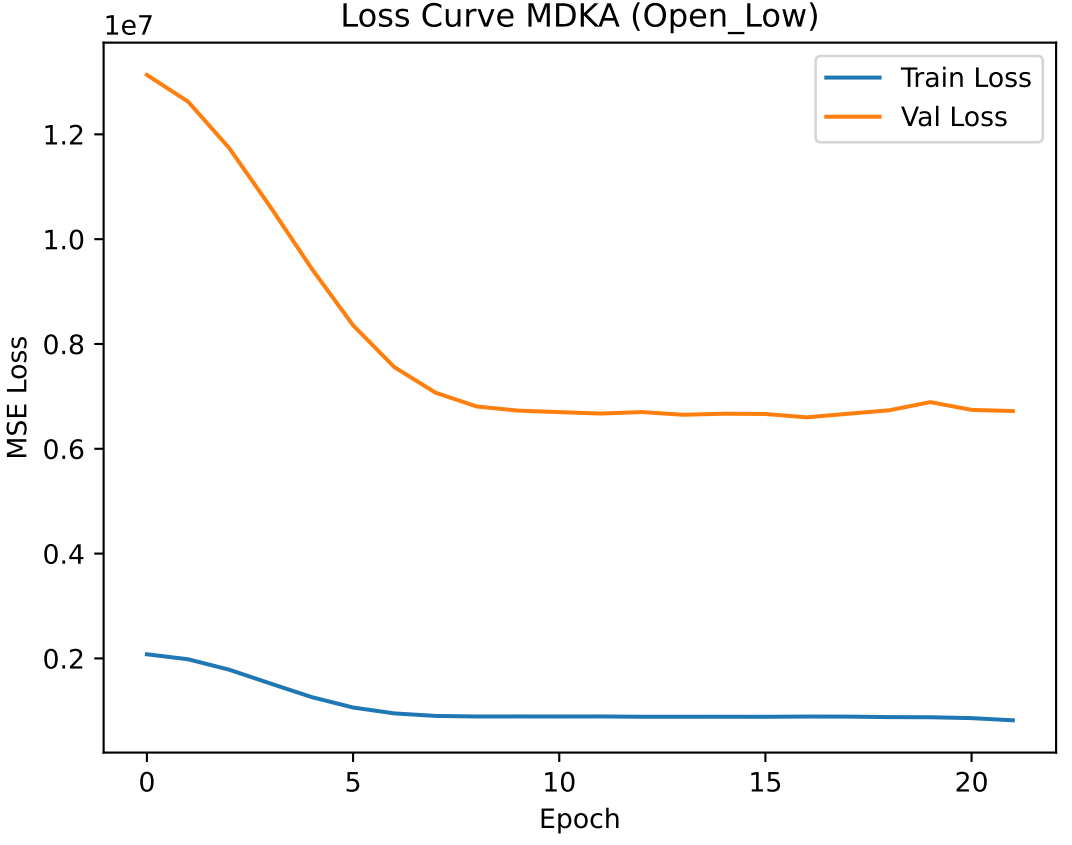

Loss Curve JSMR (Open_Low)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

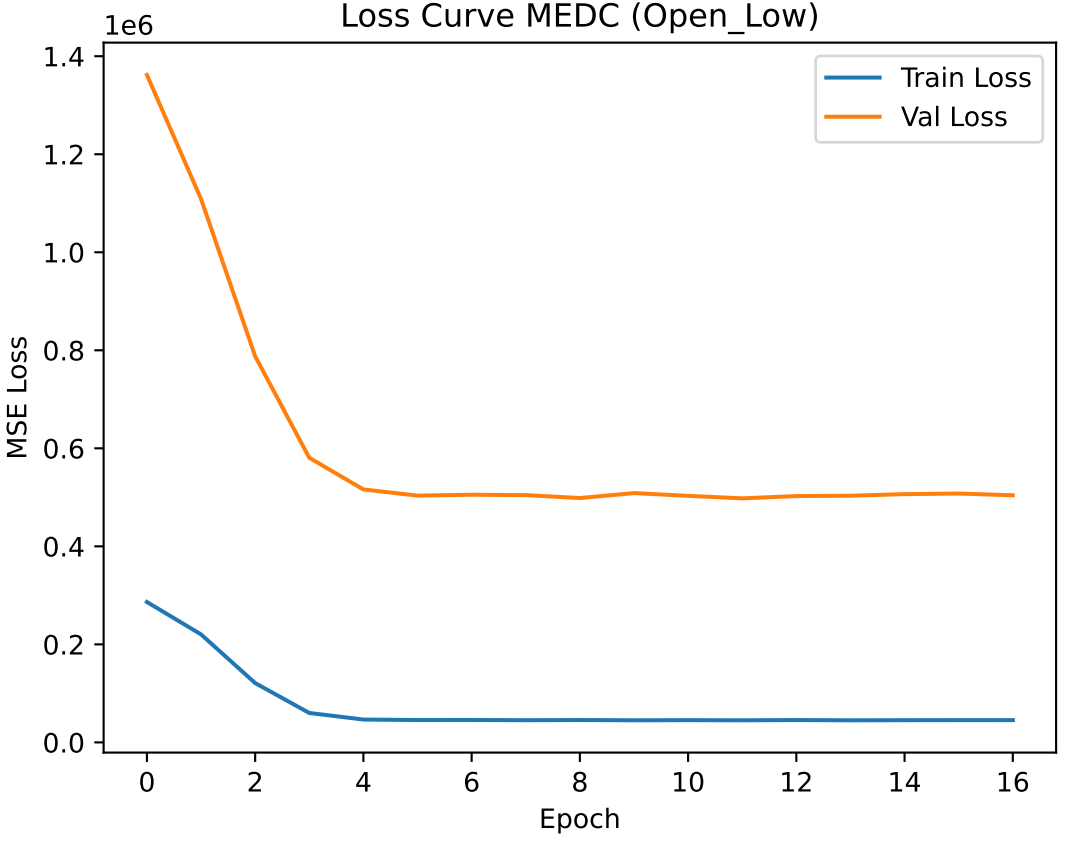

Loss Curve KLBF (Open_Low)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

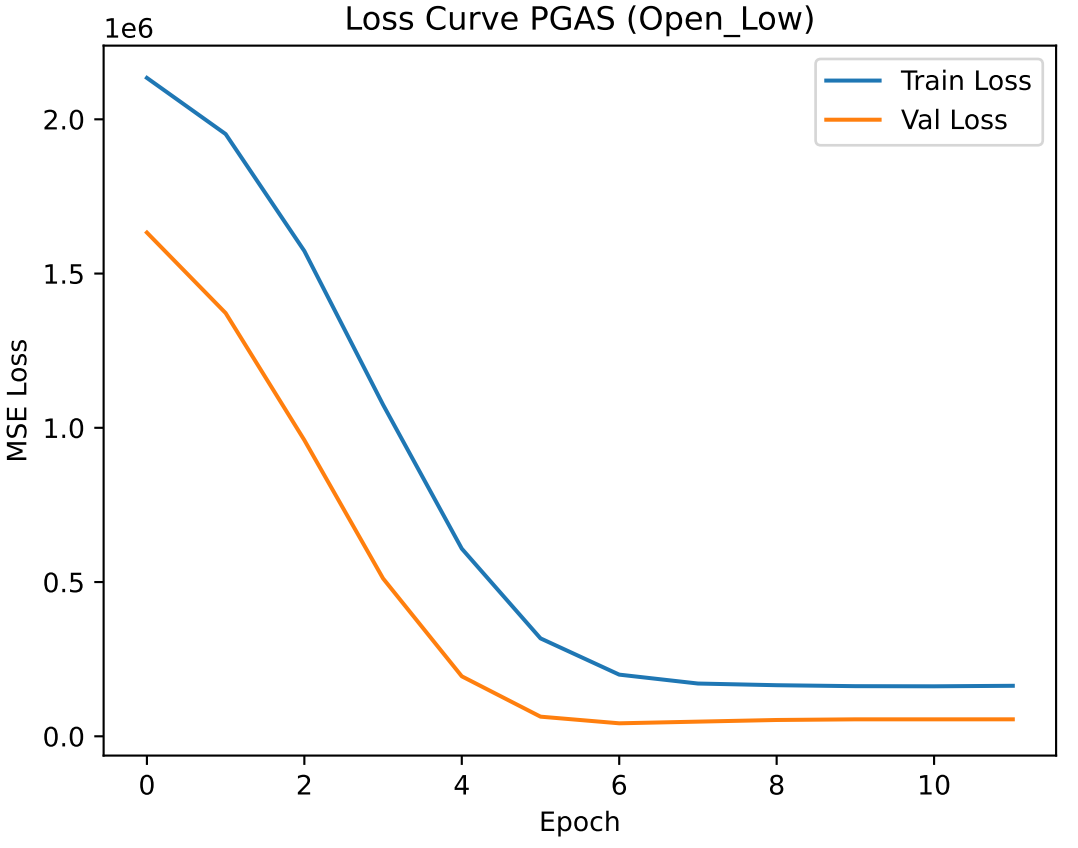

Loss Curve MAPA (Open_Low)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

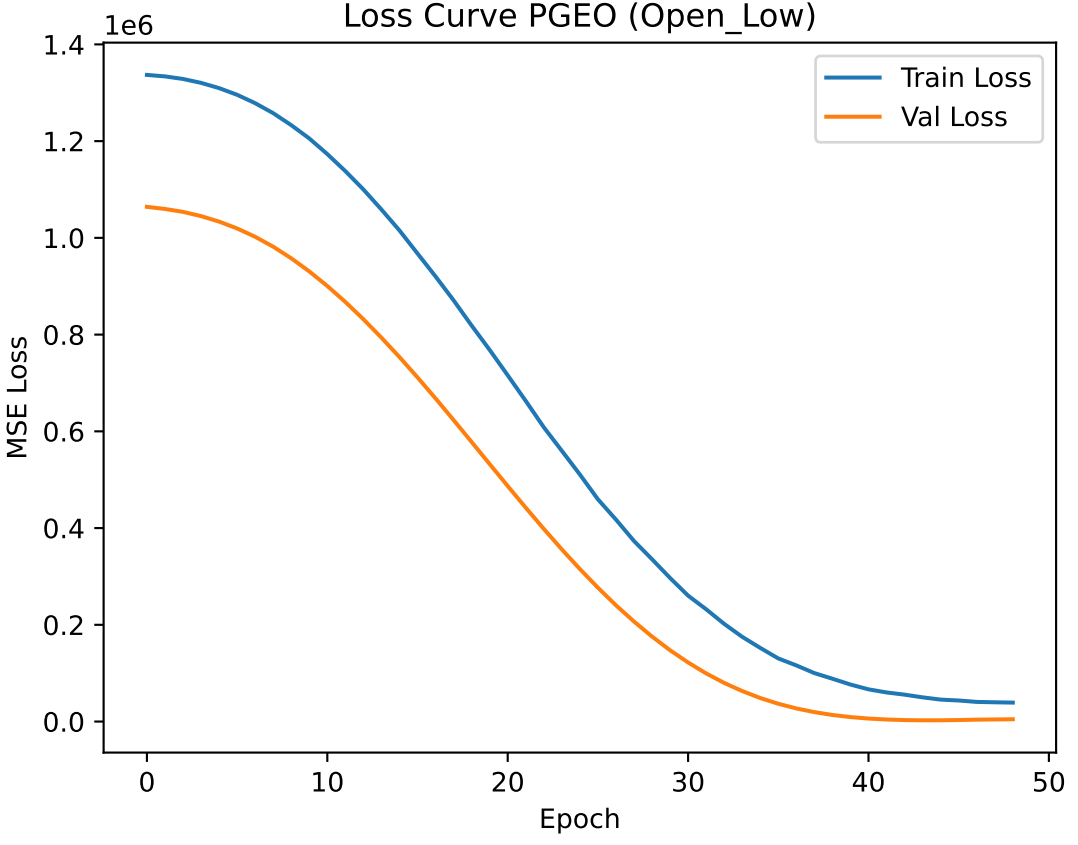

Loss Curve MAPI (Open_Low)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

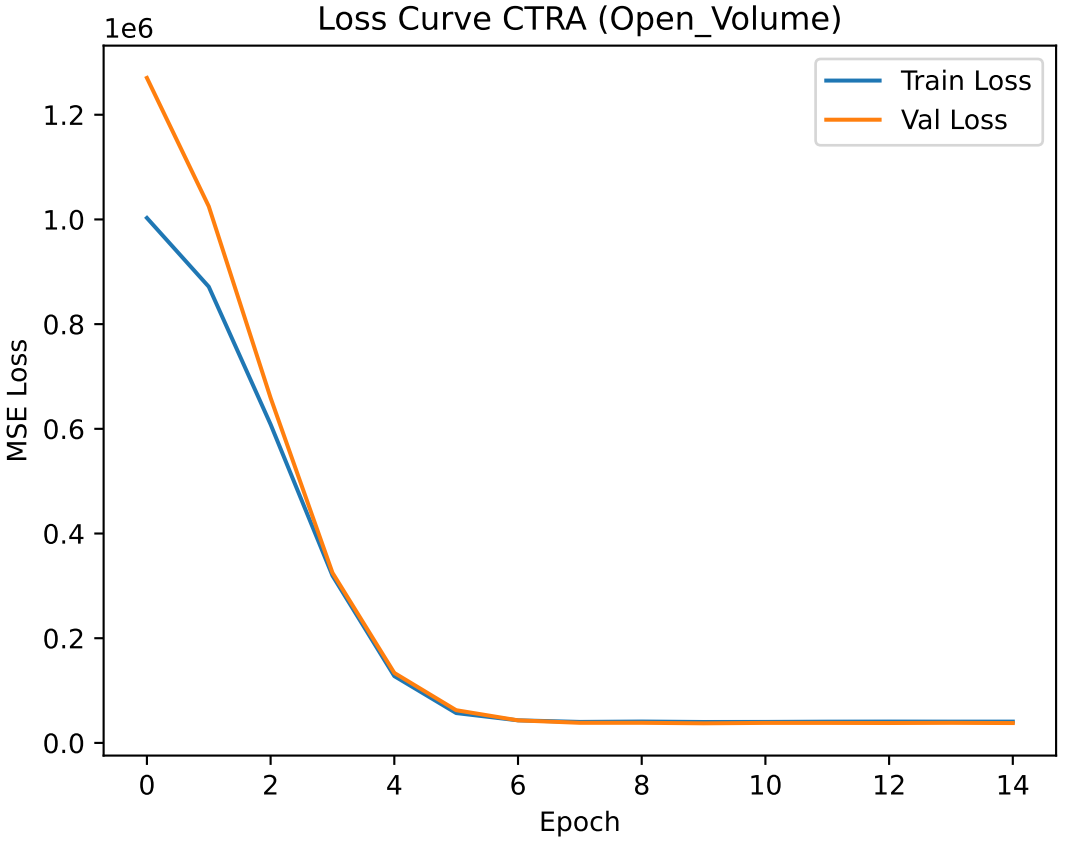

Loss Curve MBMA (Open_Low)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
Epoch

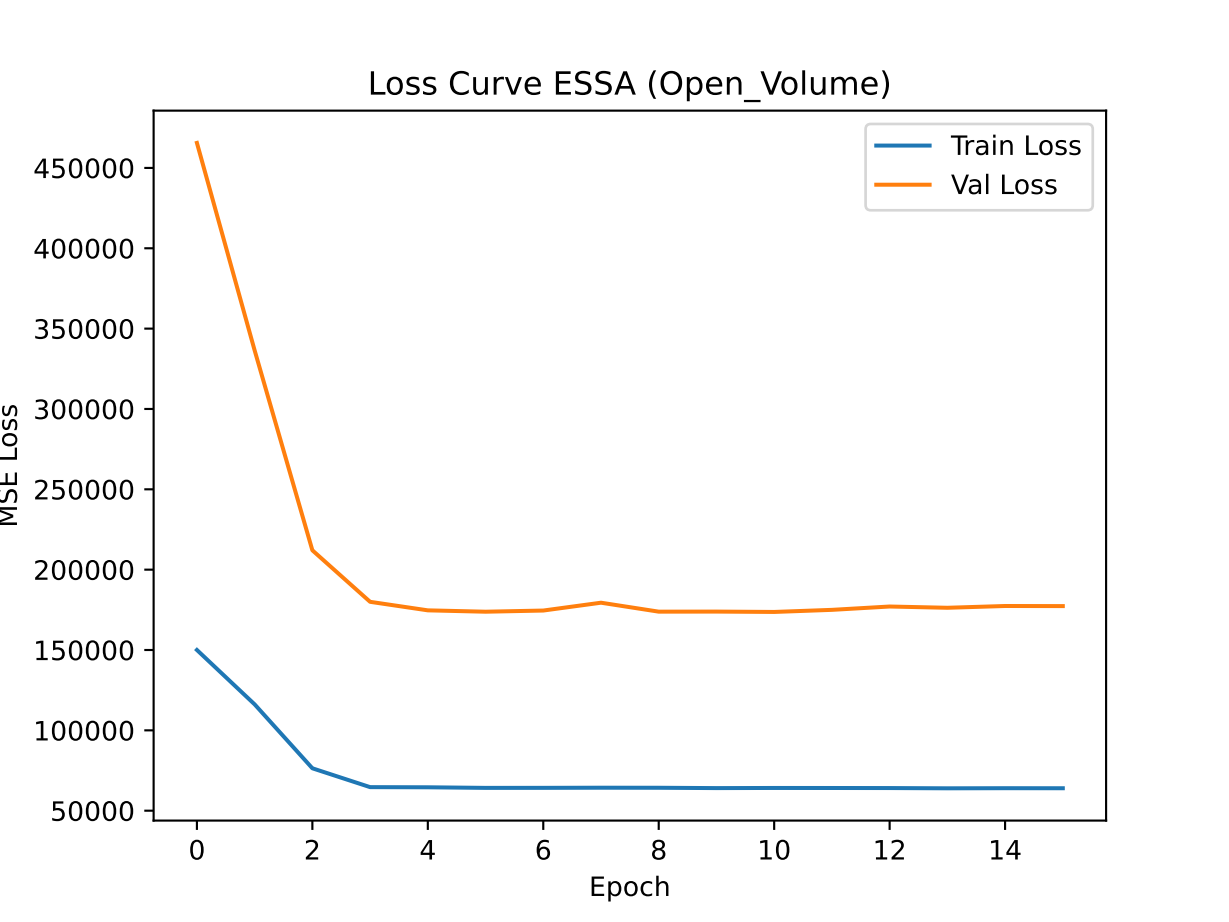

Loss Curve MDKA (Open_Low)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0
5
10
15
20
Epoch

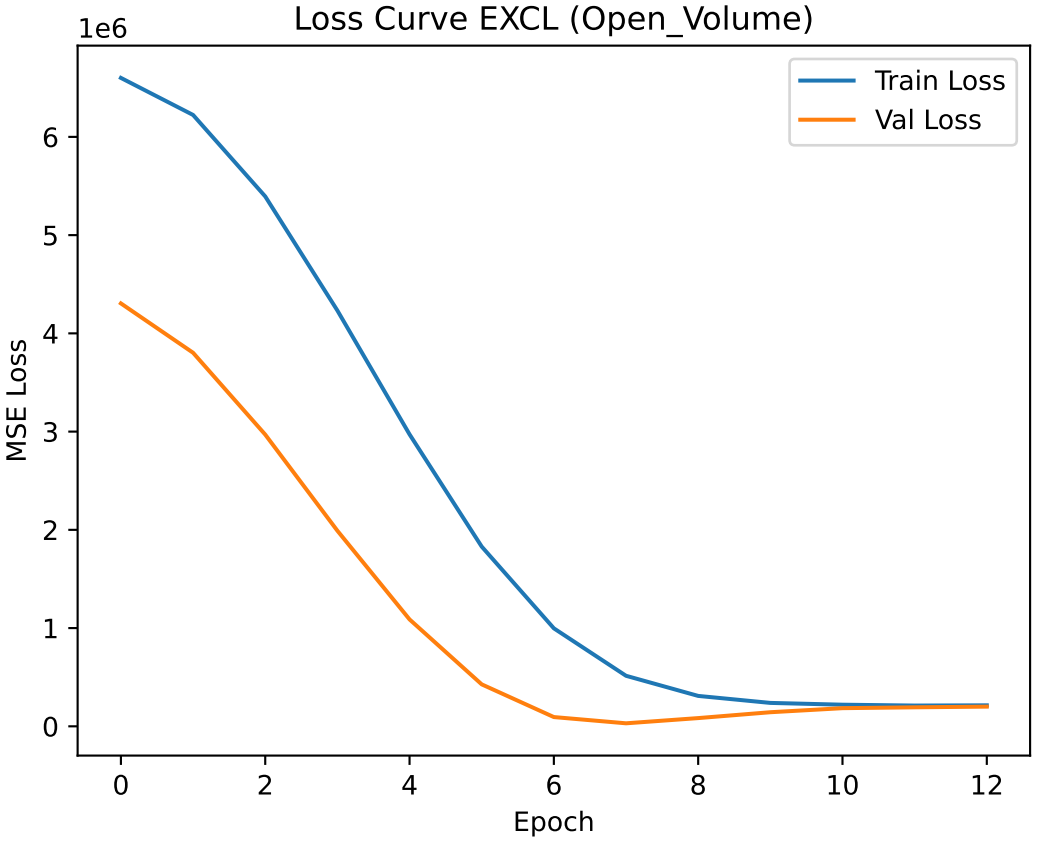

Loss Curve MEDC (Open_Low)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
14
16
Epoch

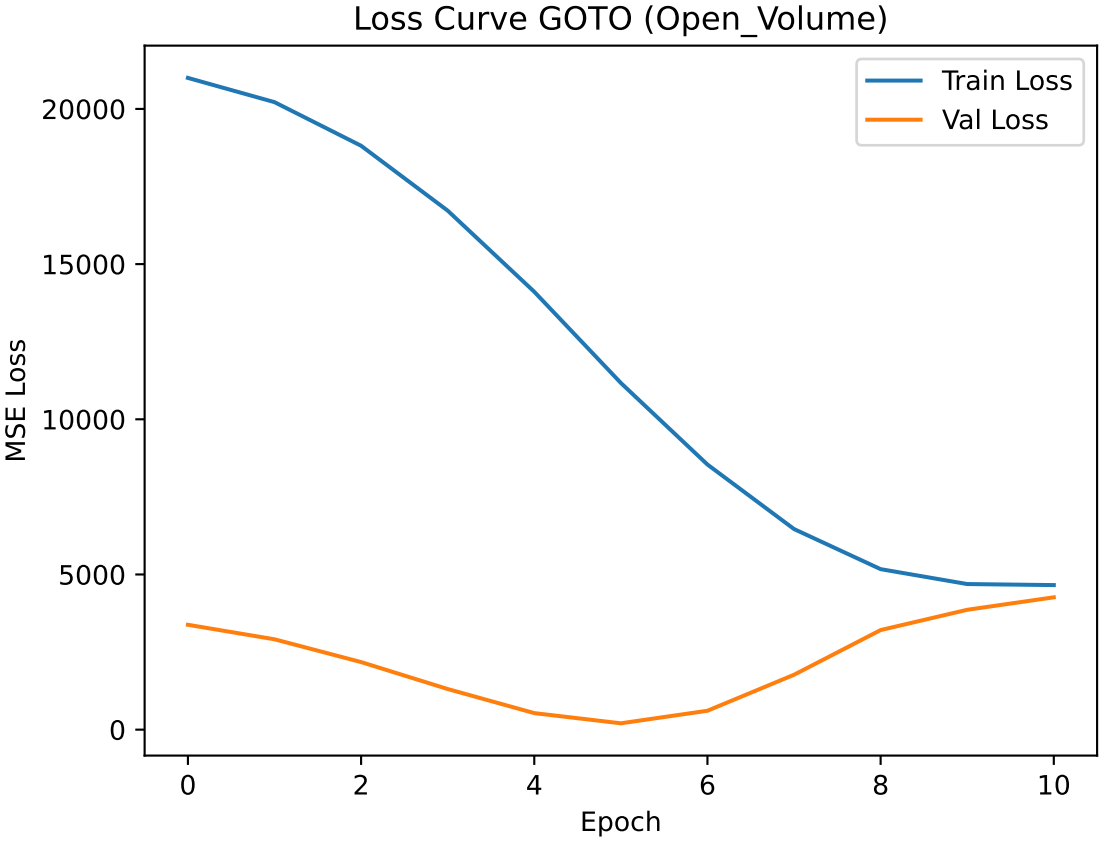

Loss Curve PGAS (Open_Low)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
Epoch
Train Loss
Val Loss

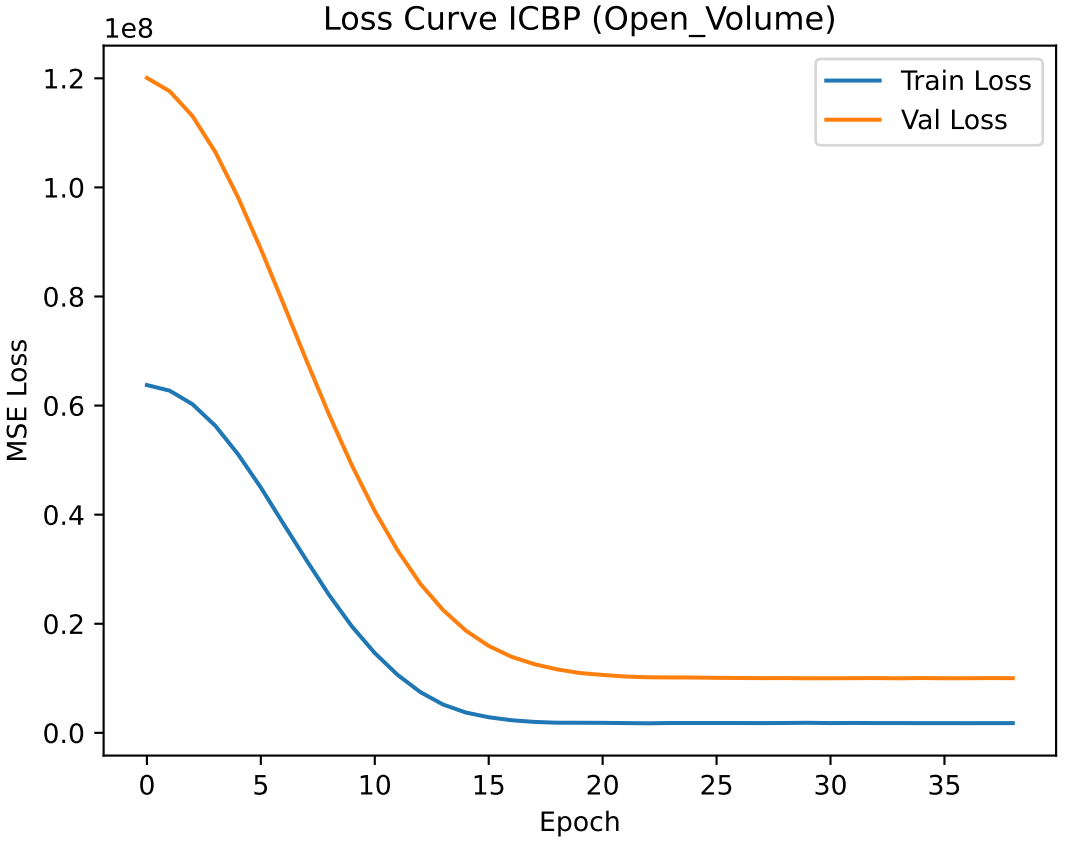

Loss Curve PGEO (Open_Low)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

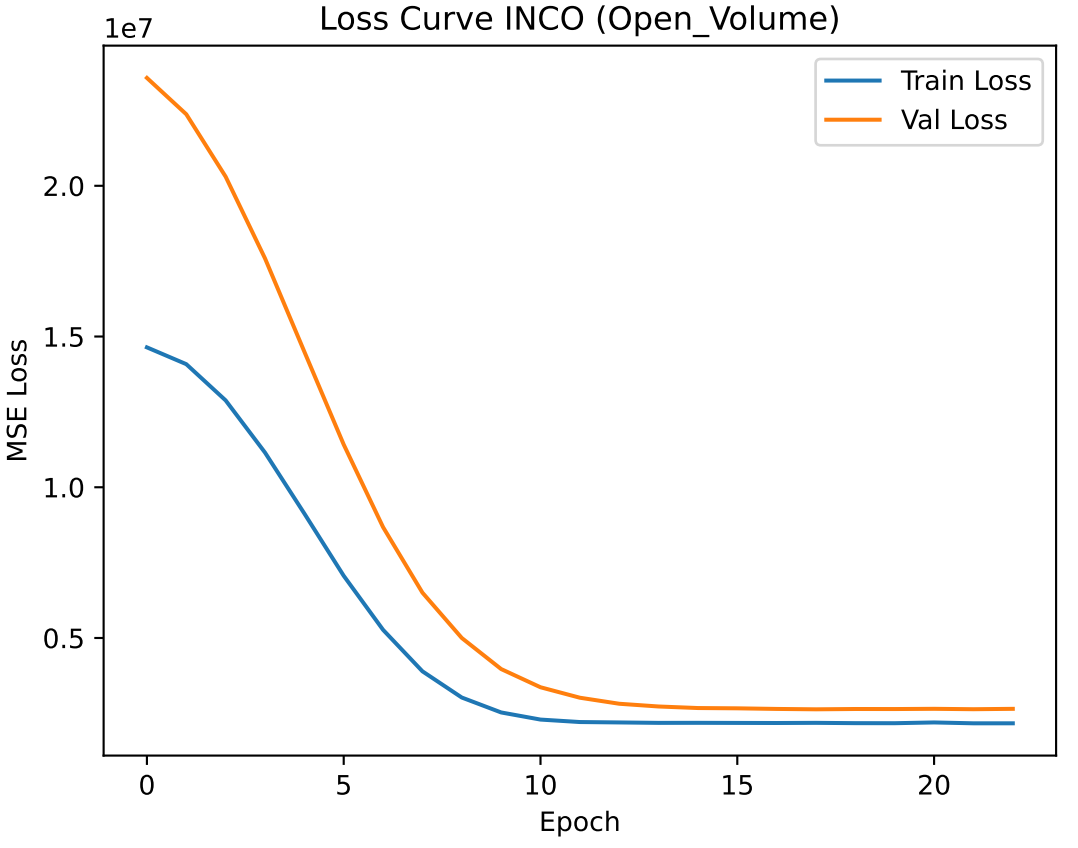

Loss Curve CTRA (Open_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12
14

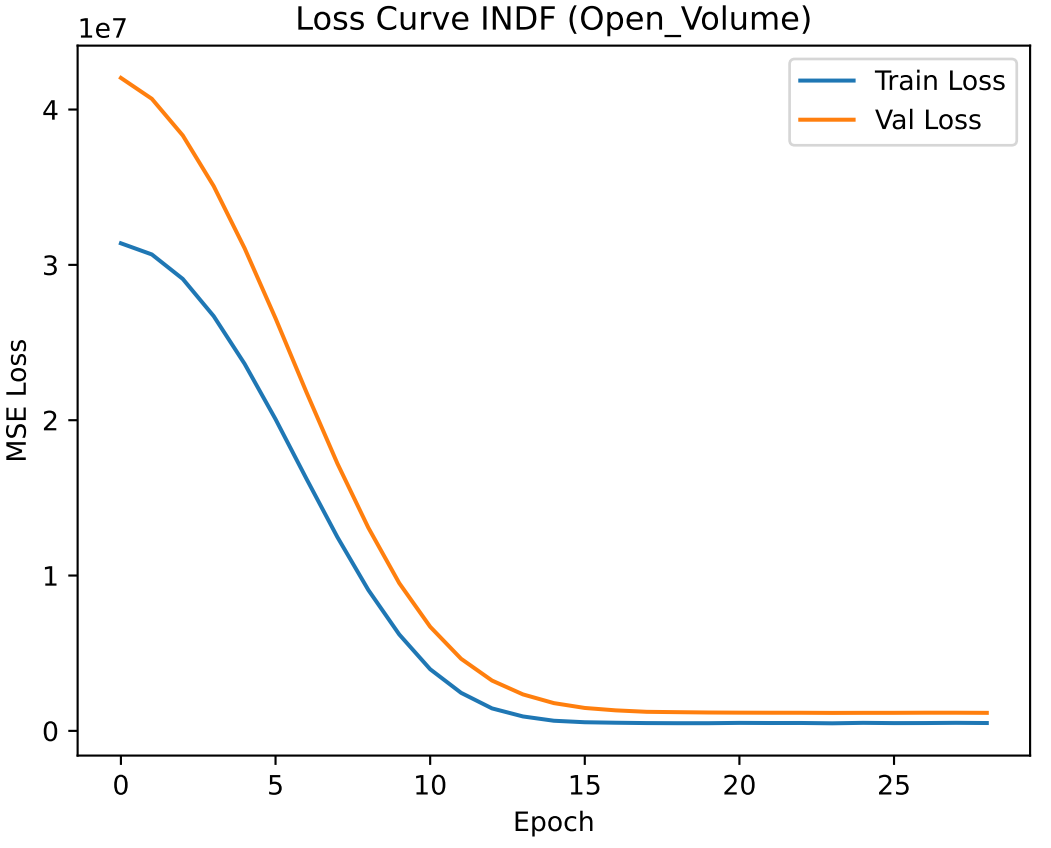

Loss Curve ESSA (Open_Volume)
Train Loss
Val Loss
MSE Loss
Epoch
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8
10
12
14

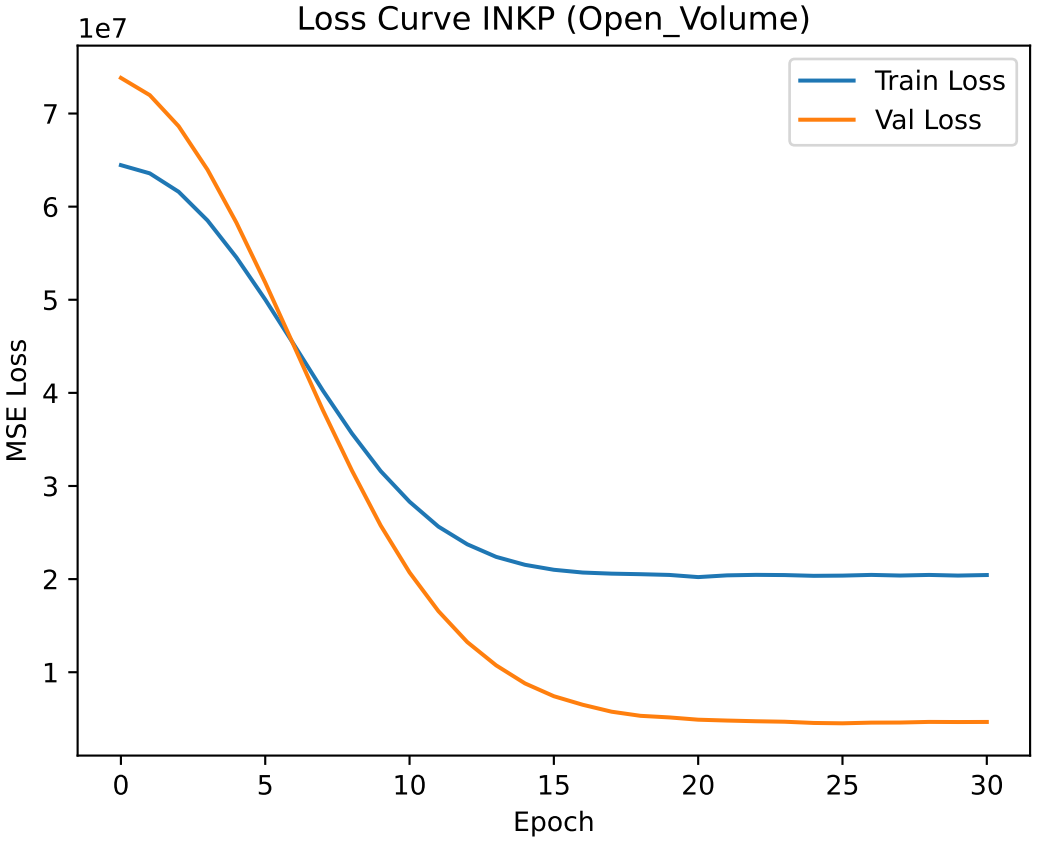

Loss Curve EXCL (Open_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

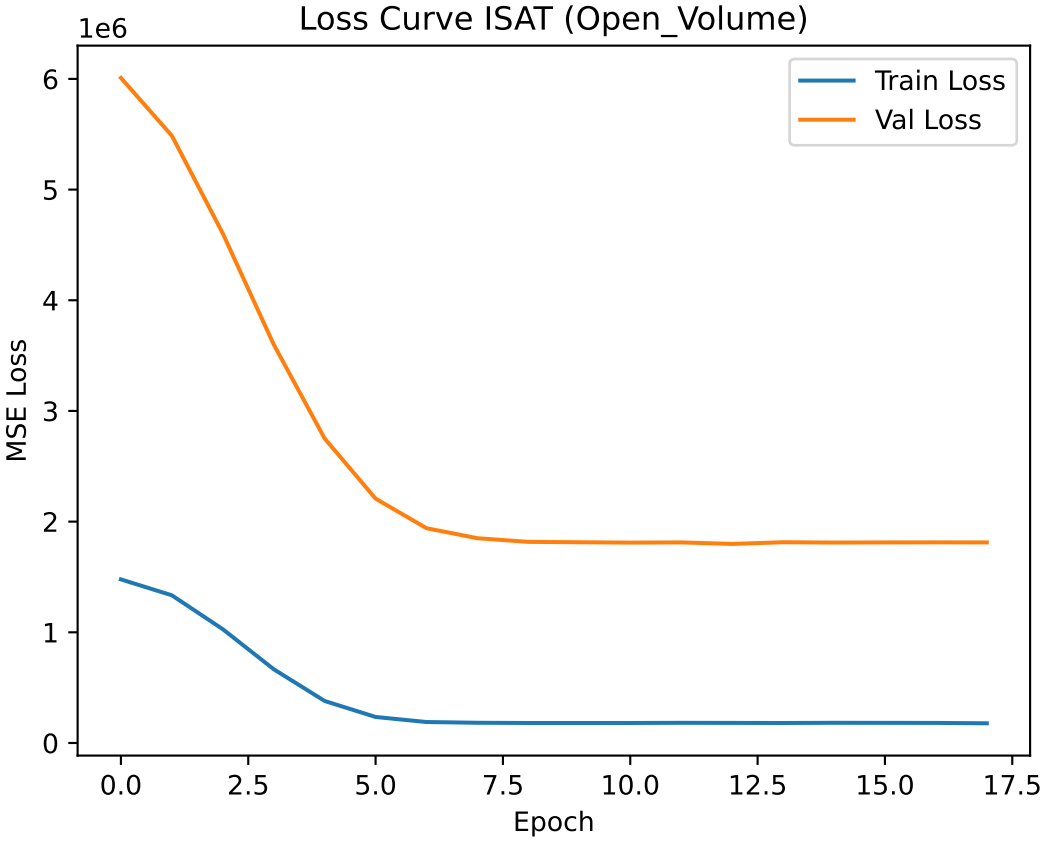

Loss Curve GOTO (Open_Volume)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

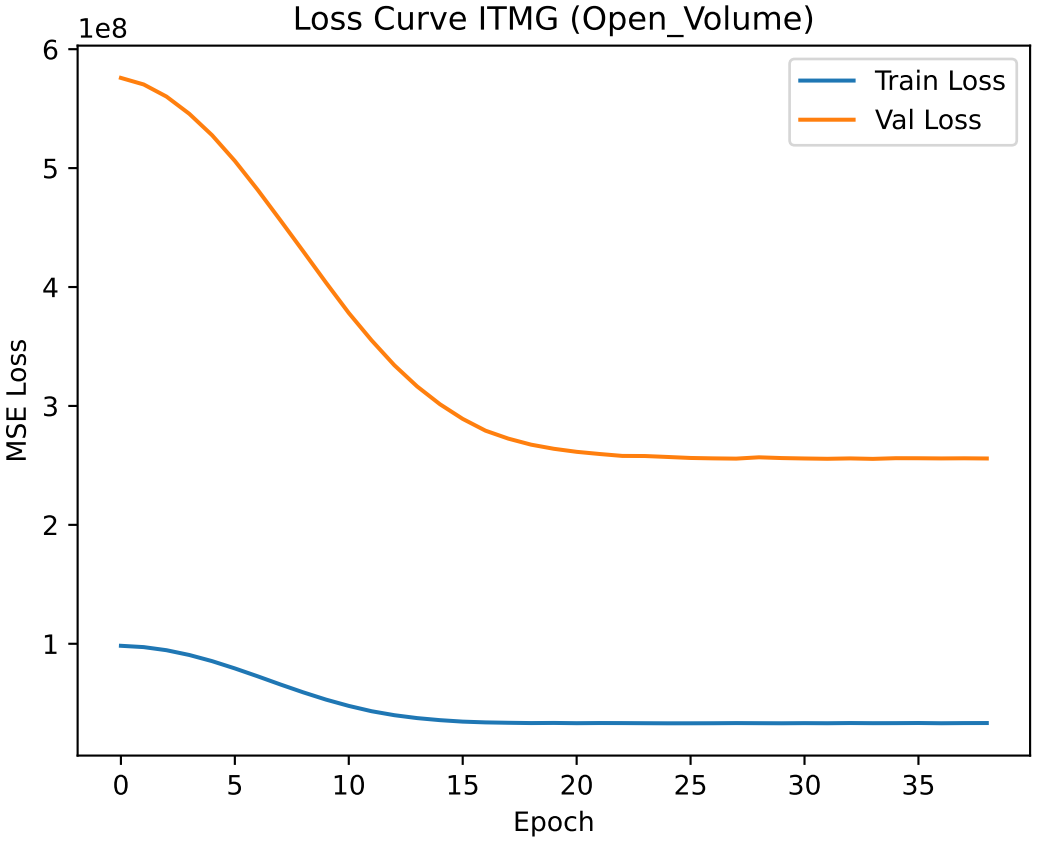

Loss Curve ICBP (Open_Volume)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
5
10
15
20
25
30
35
Epoch
Train Loss
Val Loss

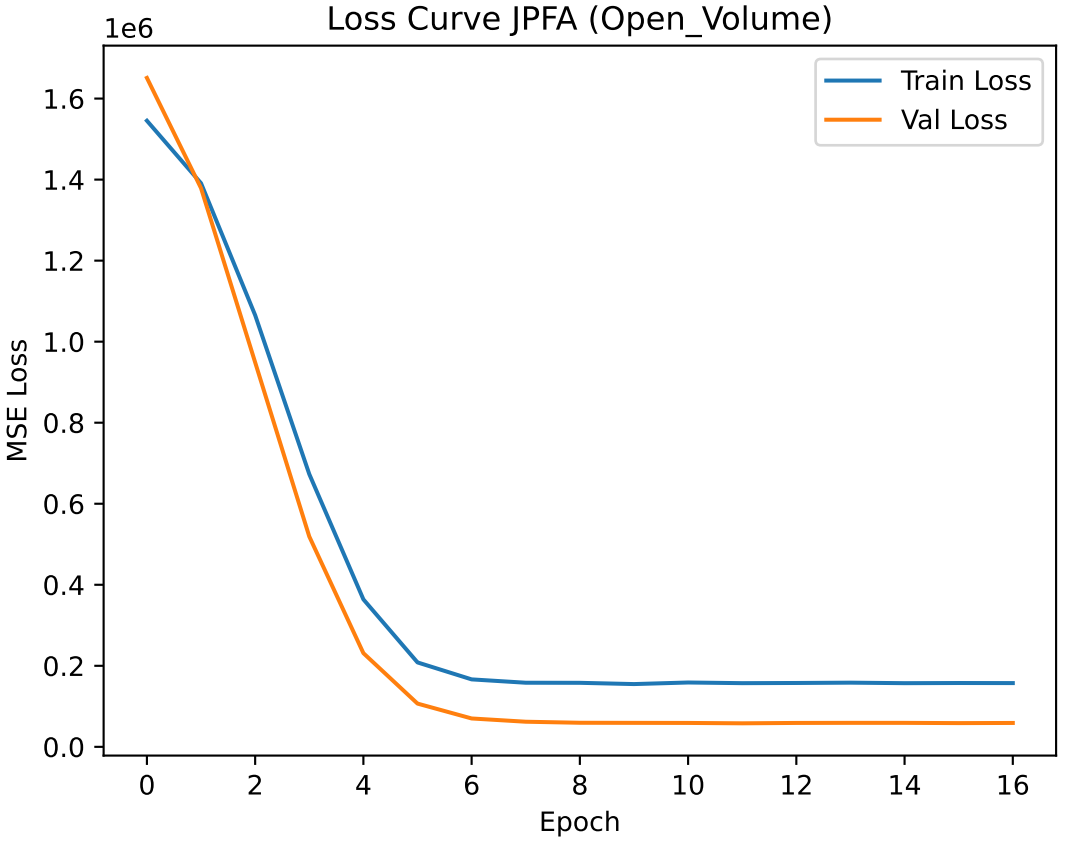

Loss Curve INCO (Open_Volume)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0
5
10
15
20
Epoch

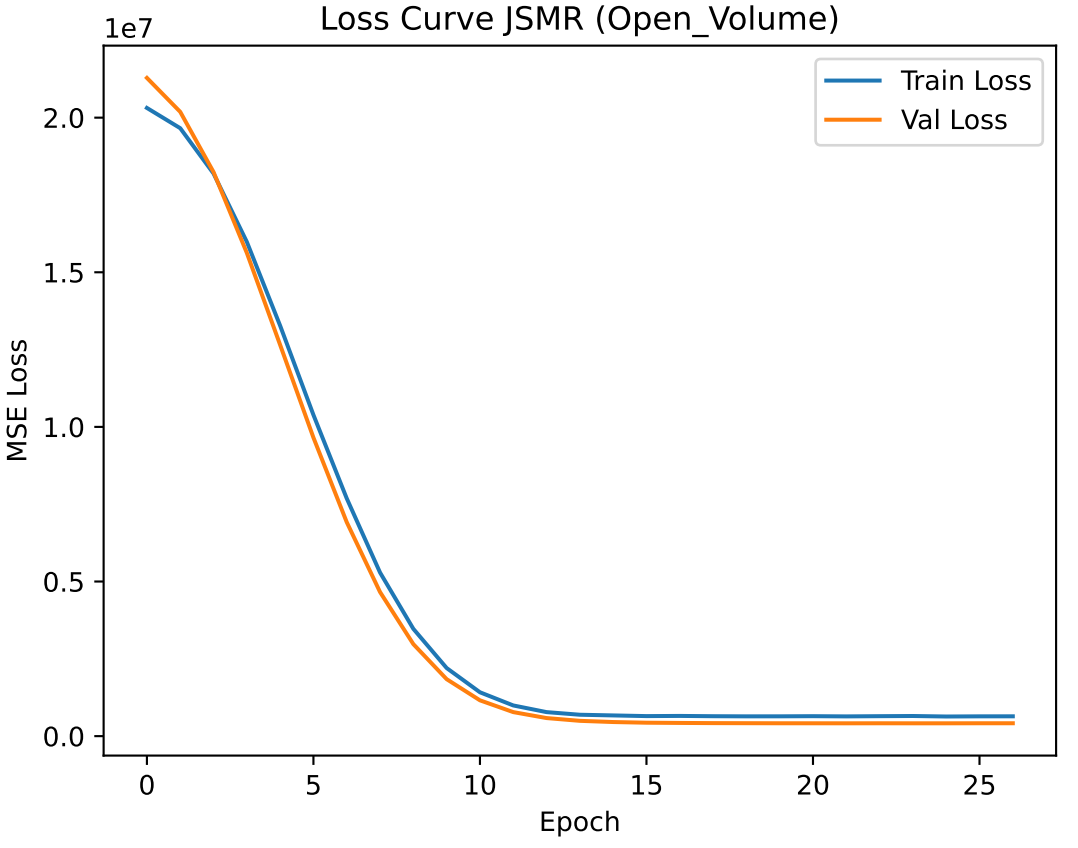

Loss Curve INDF (Open_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25

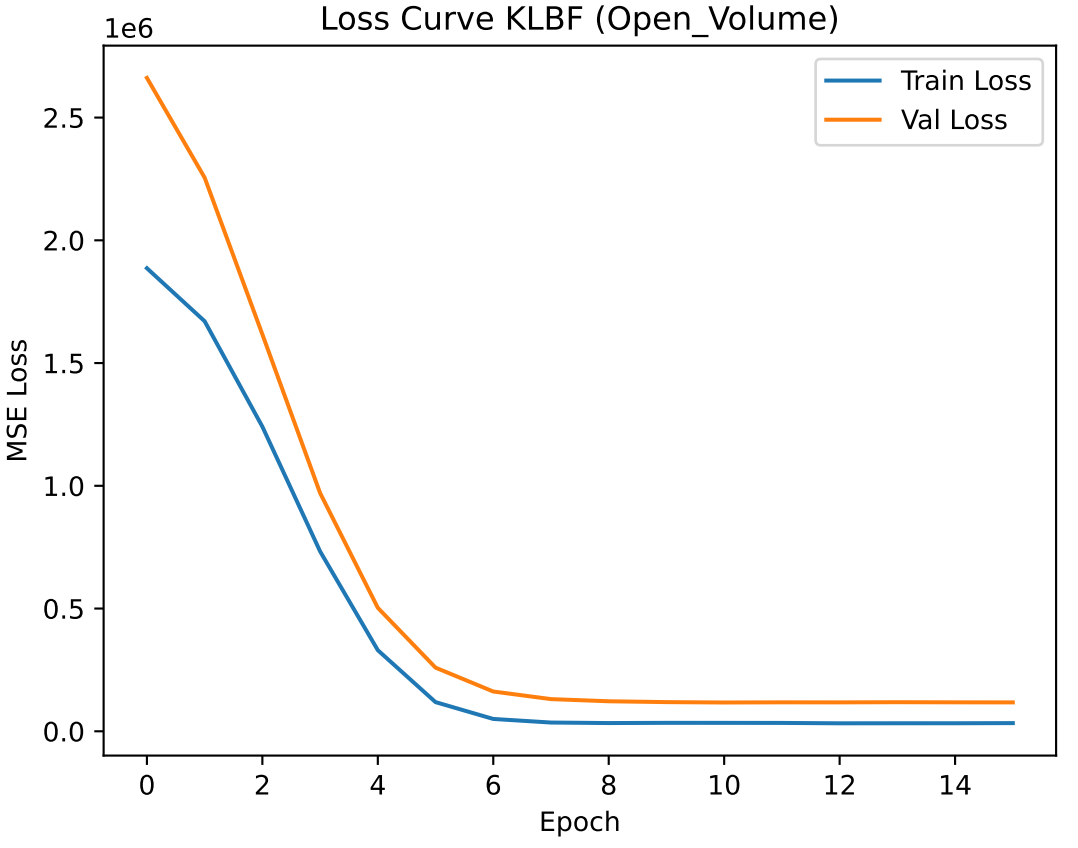

Loss Curve INKP (Open_Volume)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
1
2
3
4
5
6
7
0
5
10
15
20
25
30

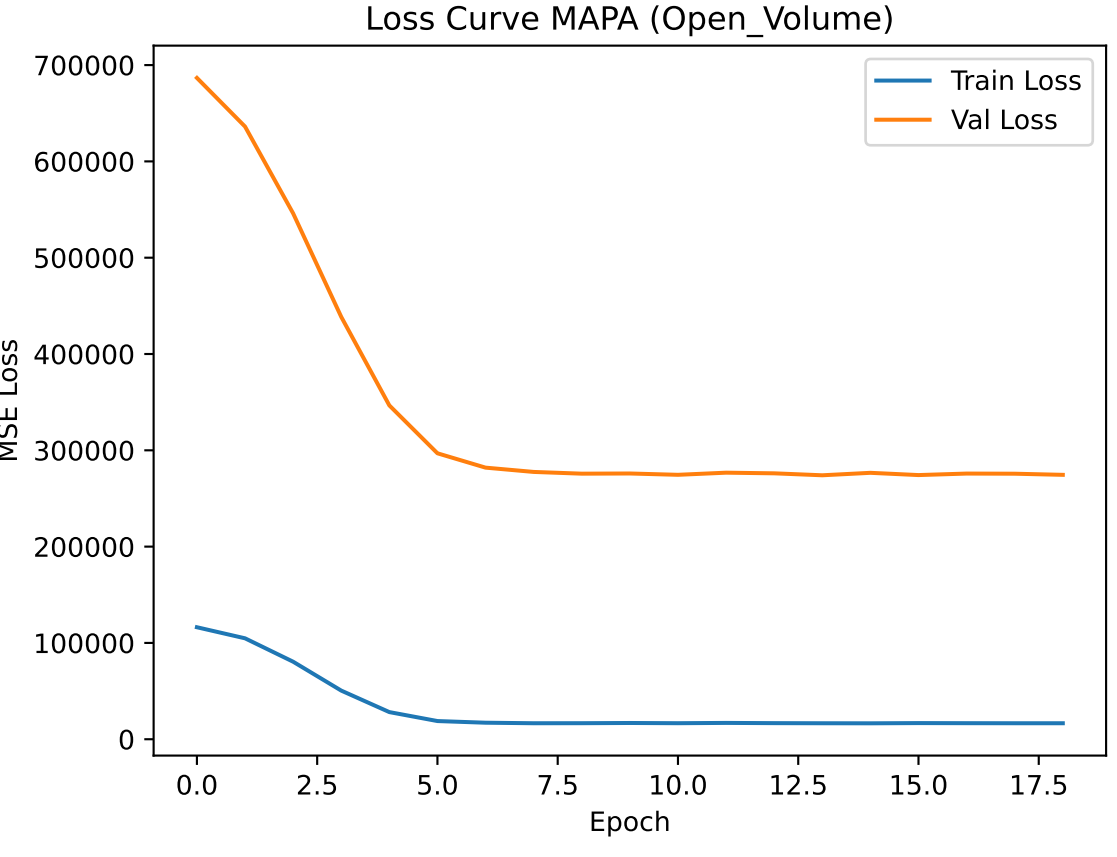

Loss Curve ISAT (Open_Volume)
1e6
6
5
4
3
2
1
0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

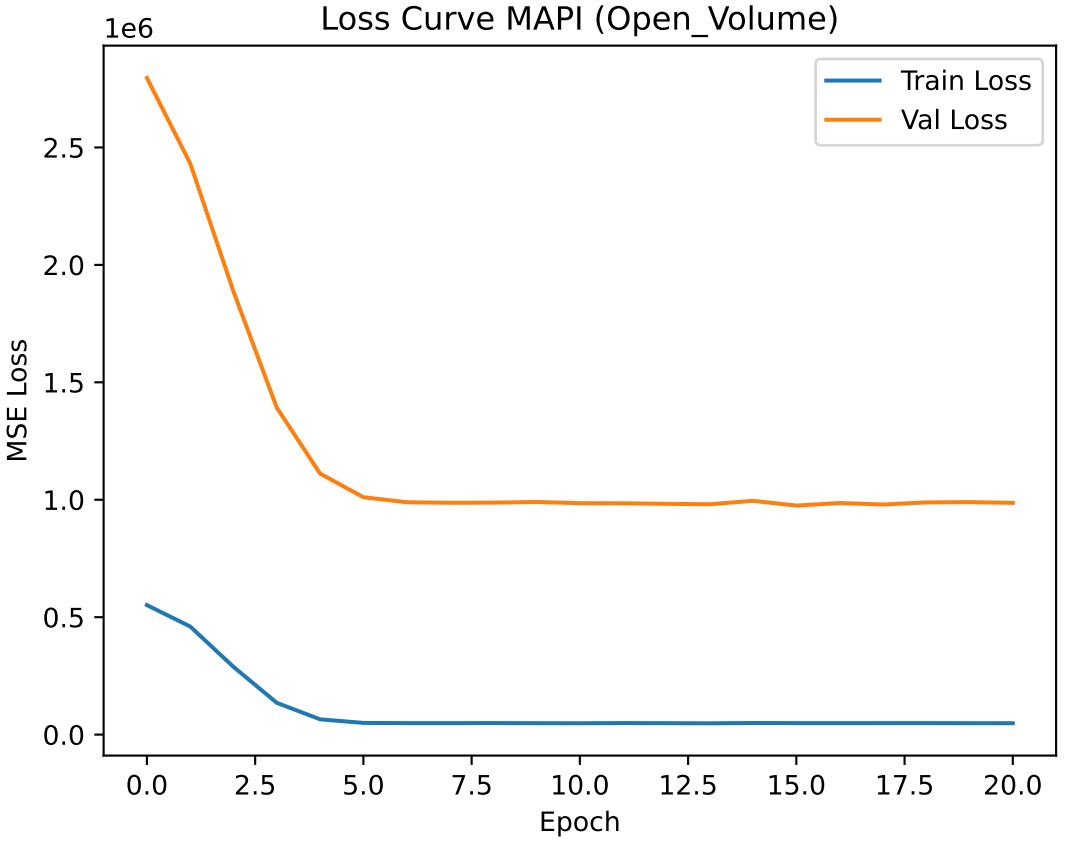

Loss Curve ITMG (Open_Volume)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

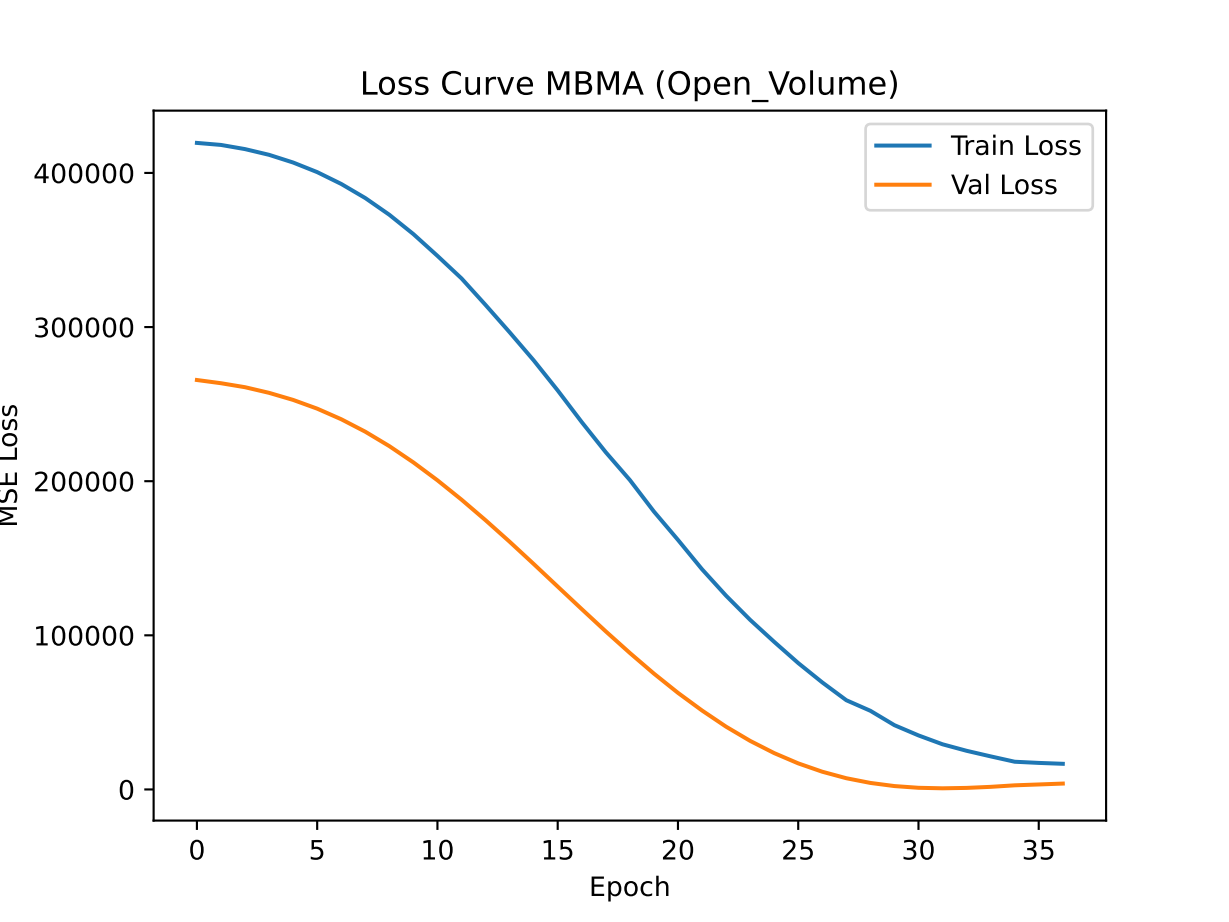

Loss Curve JPFA (Open_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14
16

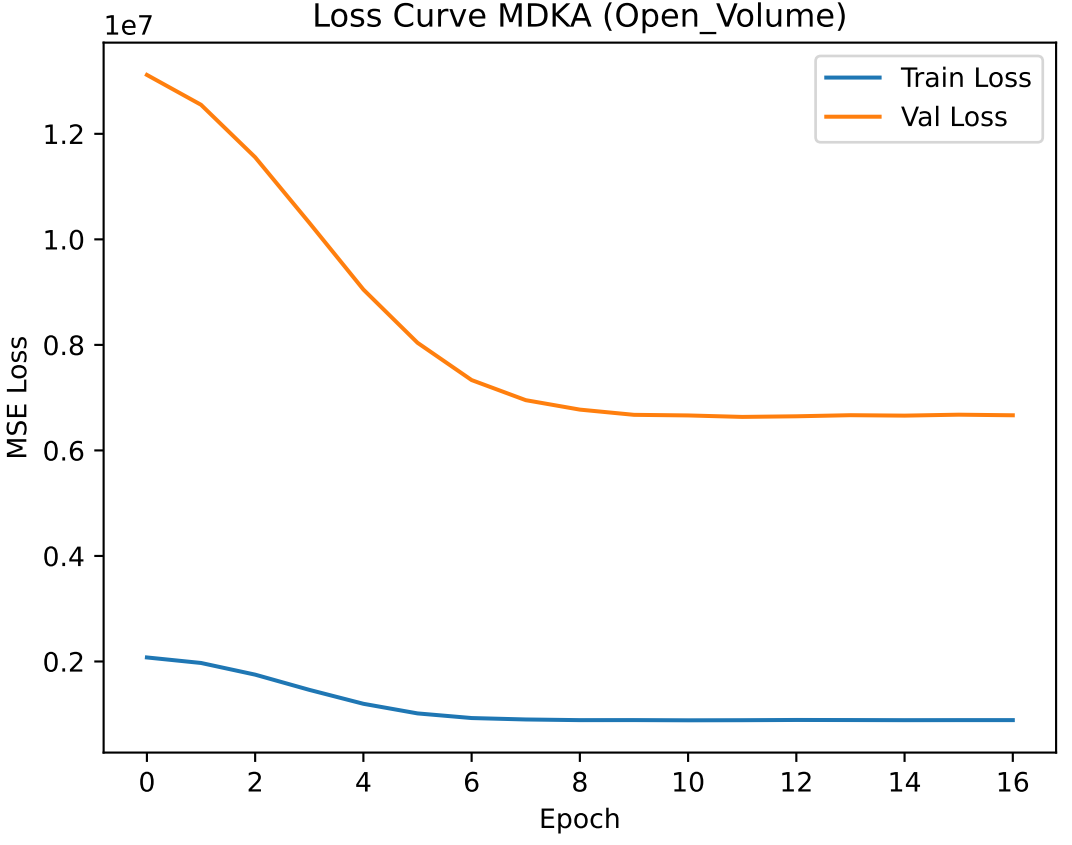

Loss Curve JSMR (Open_Volume)
1e7
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
5
10
15
20
25
Epoch
Train Loss
Val Loss

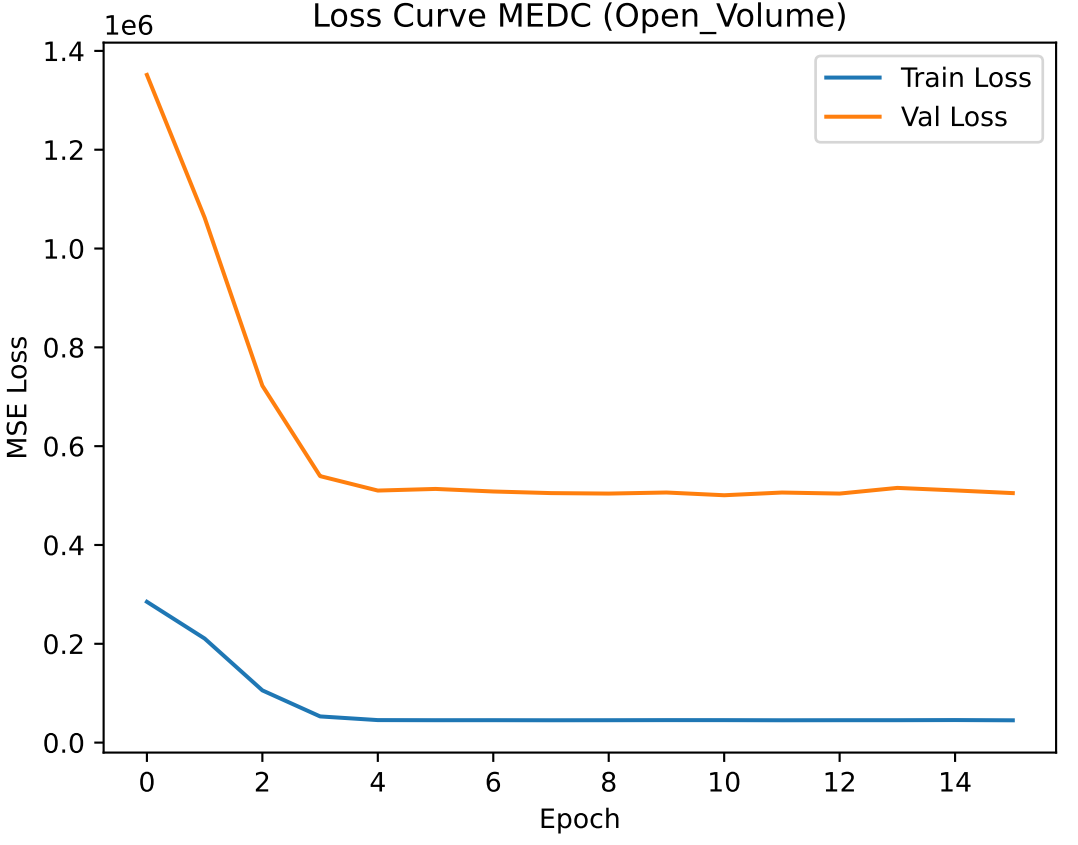

Loss Curve KLBF (Open_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

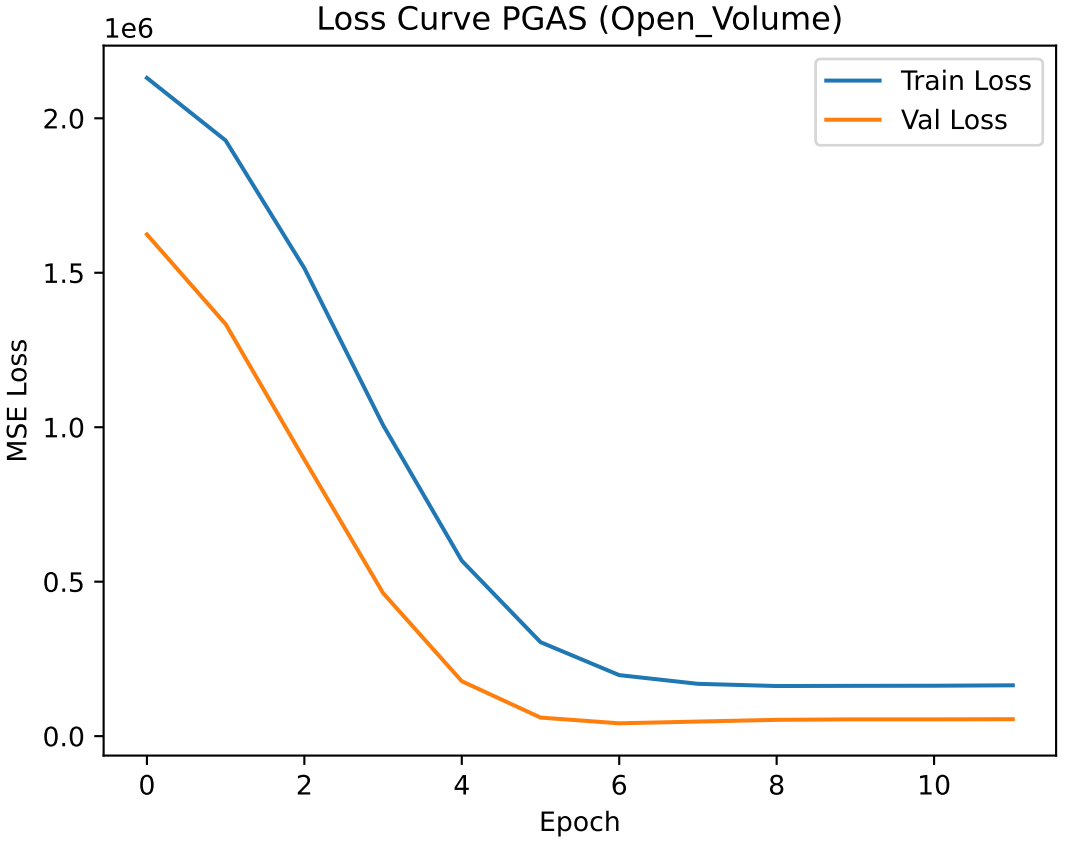

Loss Curve MAPA (Open_Volume)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

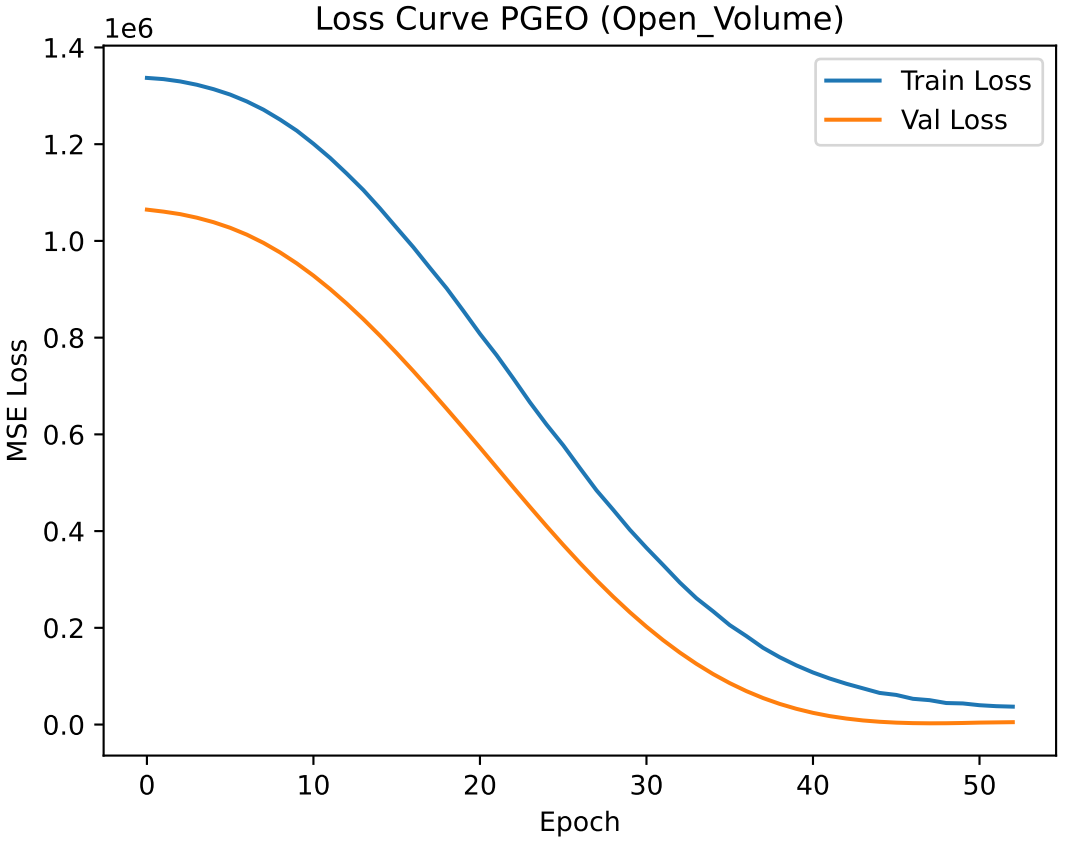

Loss Curve MAPI (Open_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

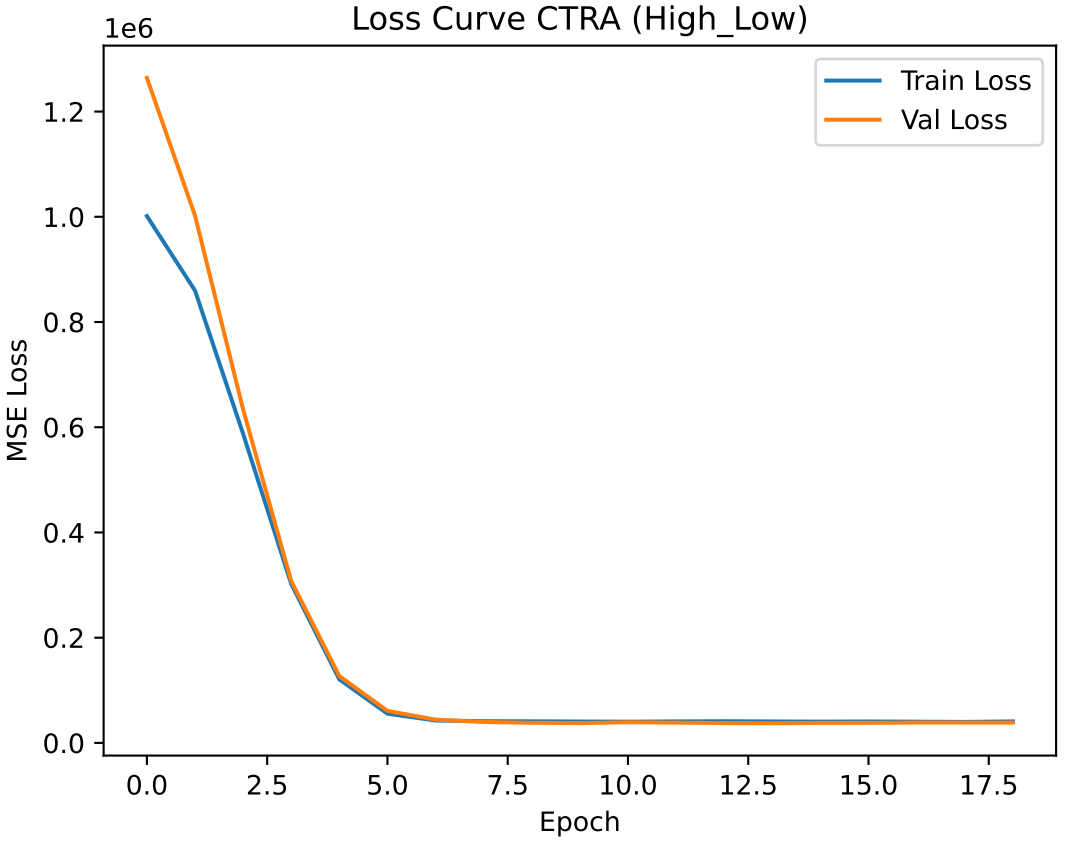

Loss Curve MBMA (Open_Volume)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

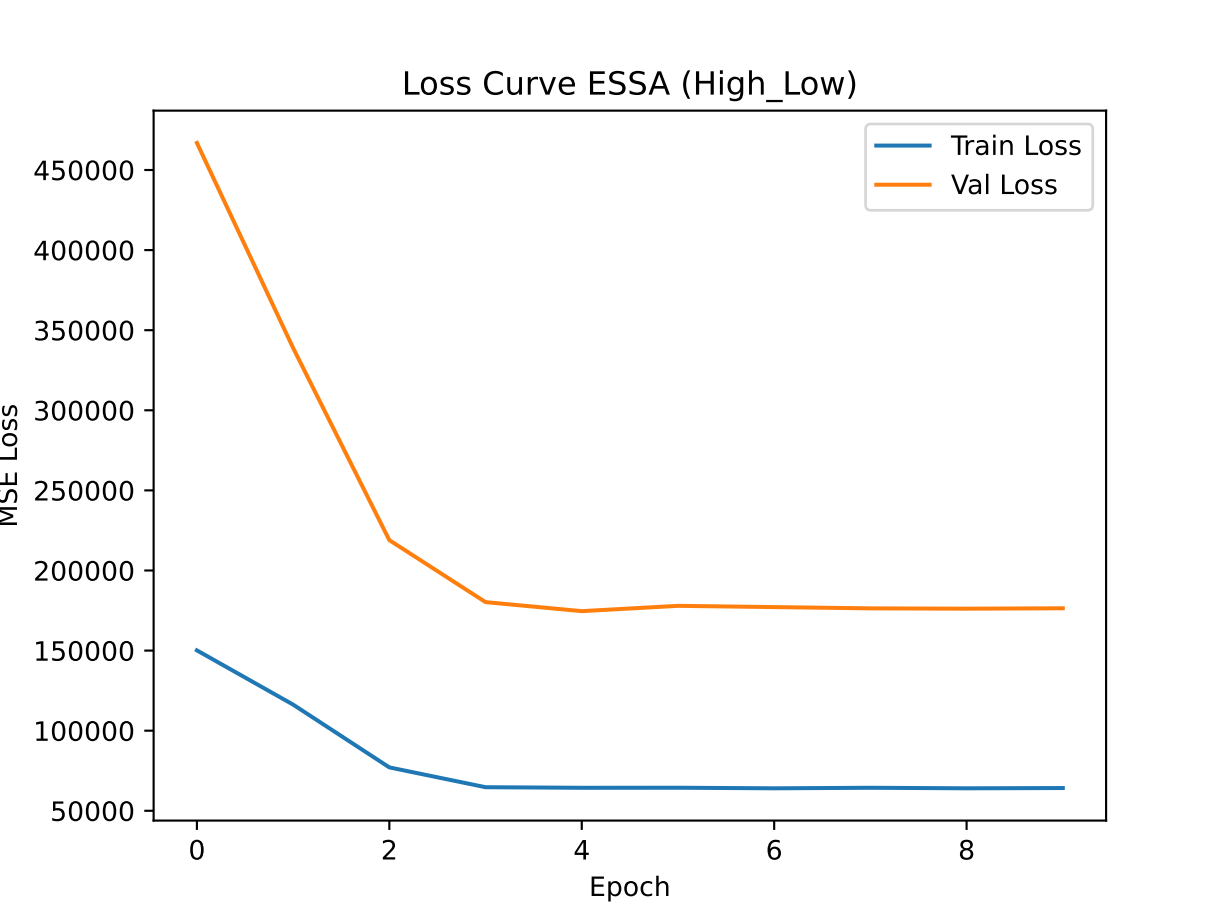

Loss Curve MDKA (Open_Volume)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0
2
4
6
8
10
12
14
16
Epoch

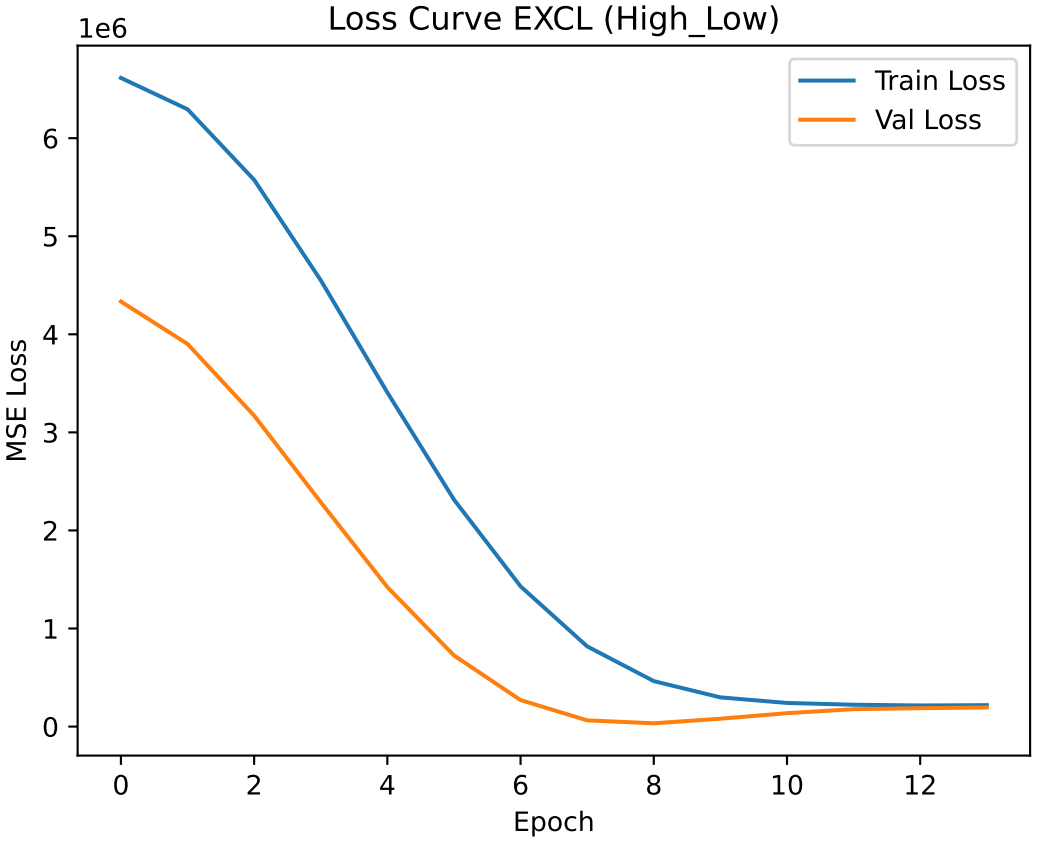

Loss Curve MEDC (Open_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
14
Epoch

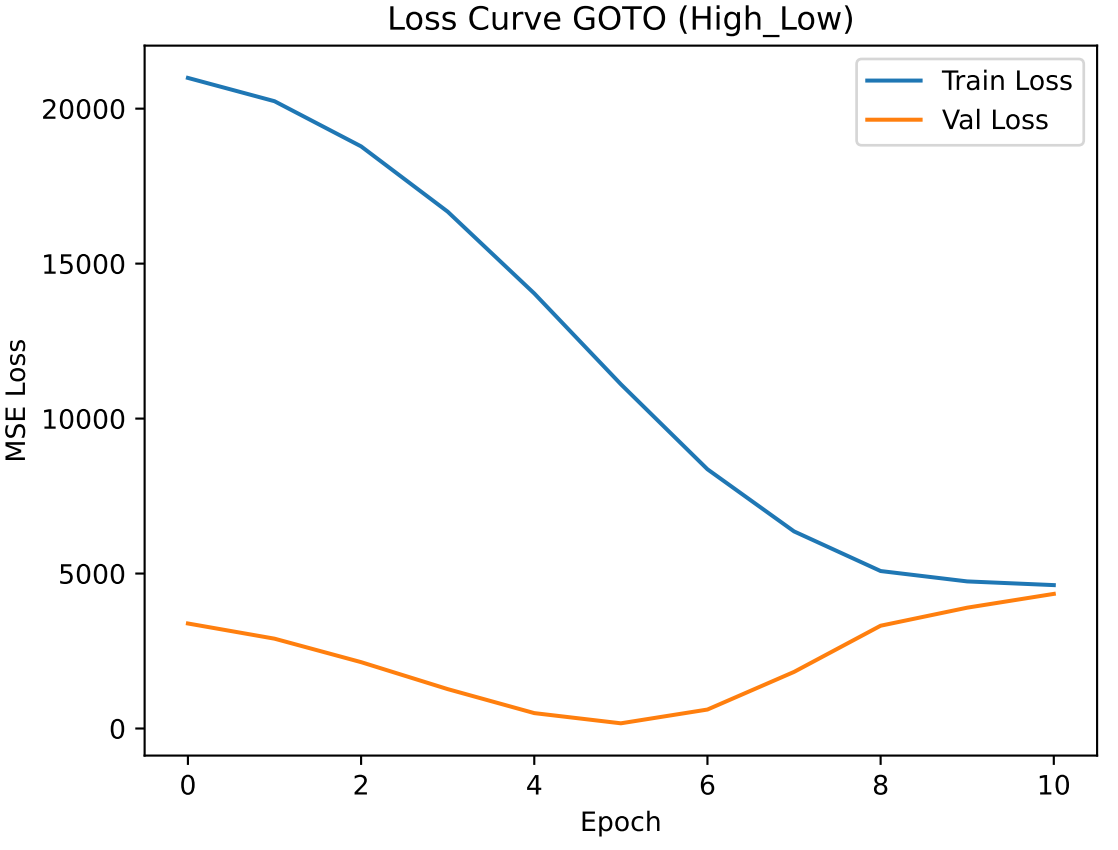

Loss Curve PGAS (Open_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

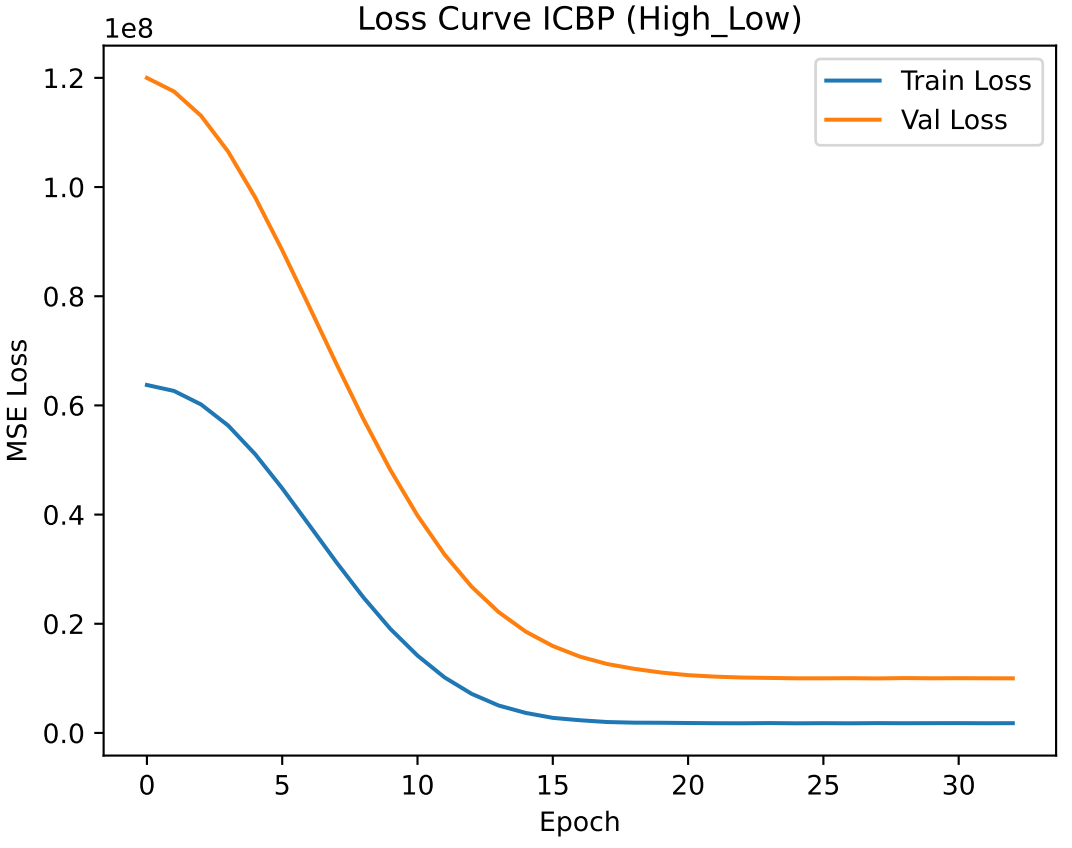

Loss Curve PGEO (Open_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

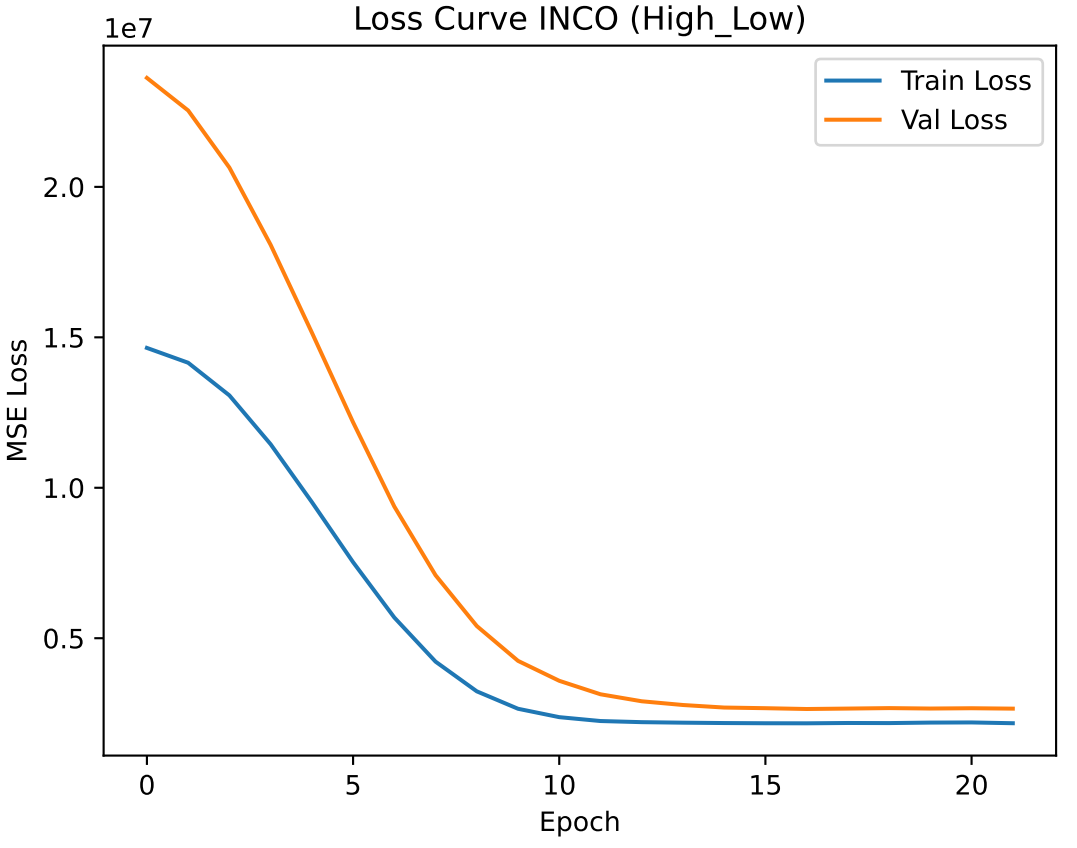

Loss Curve CTRA (High_Low)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

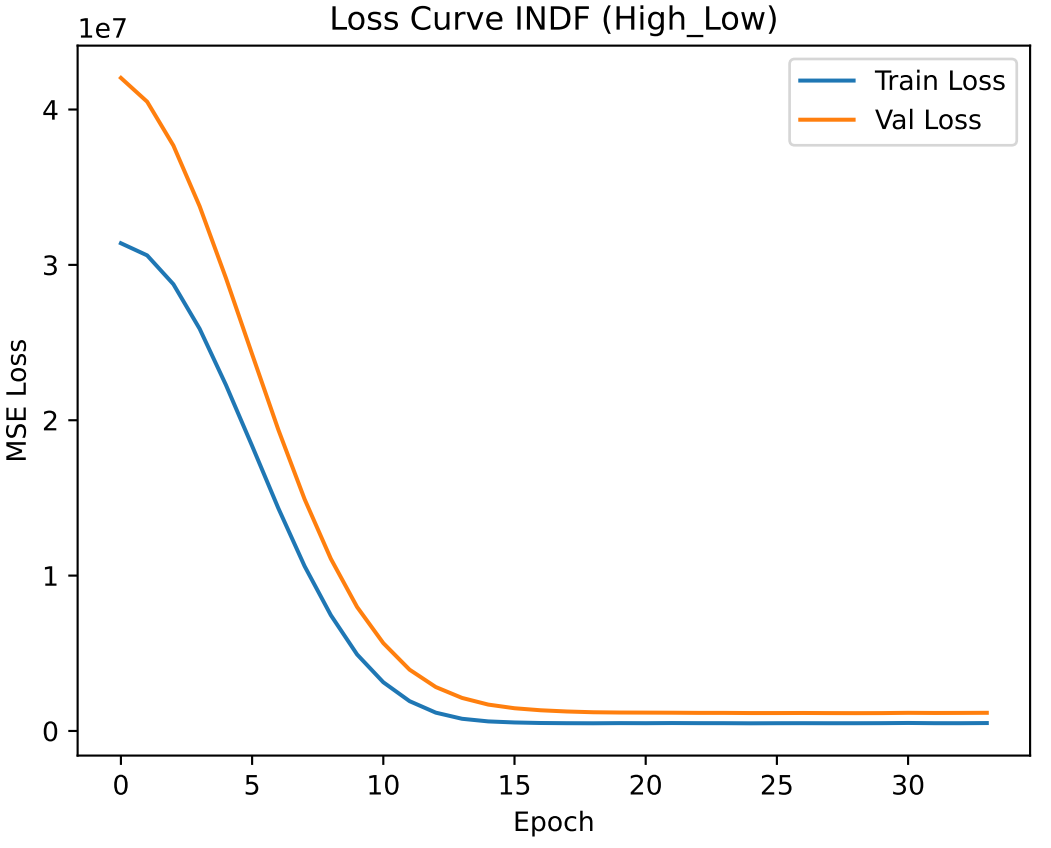

Loss Curve ESSA (High_Low)
Train Loss
Val Loss
MSE Loss
Epoch
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8

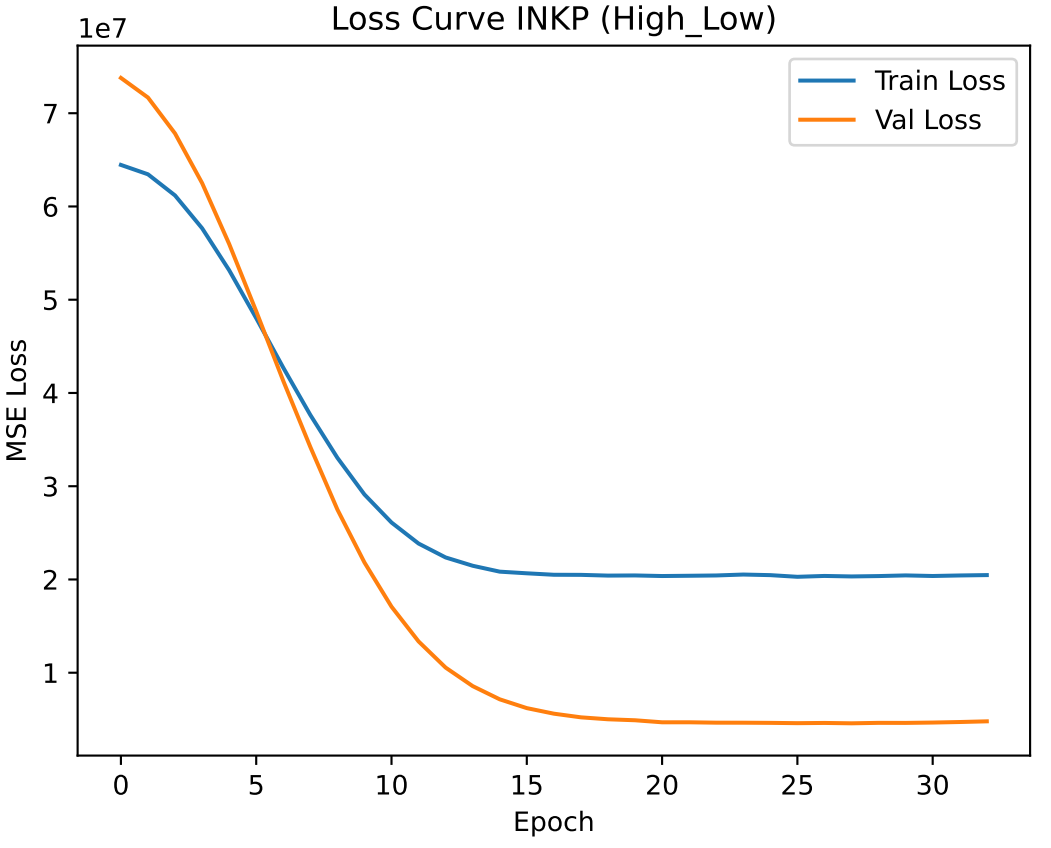

Loss Curve EXCL (High_Low)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

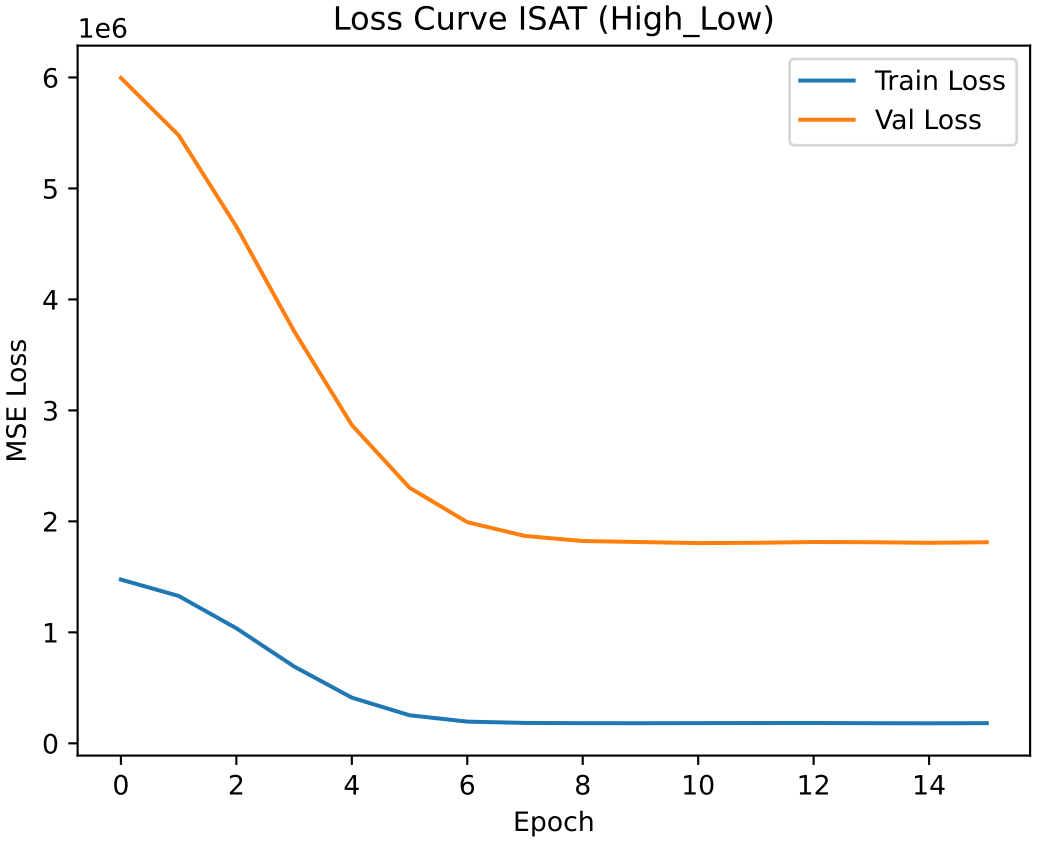

Loss Curve GOTO (High_Low)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

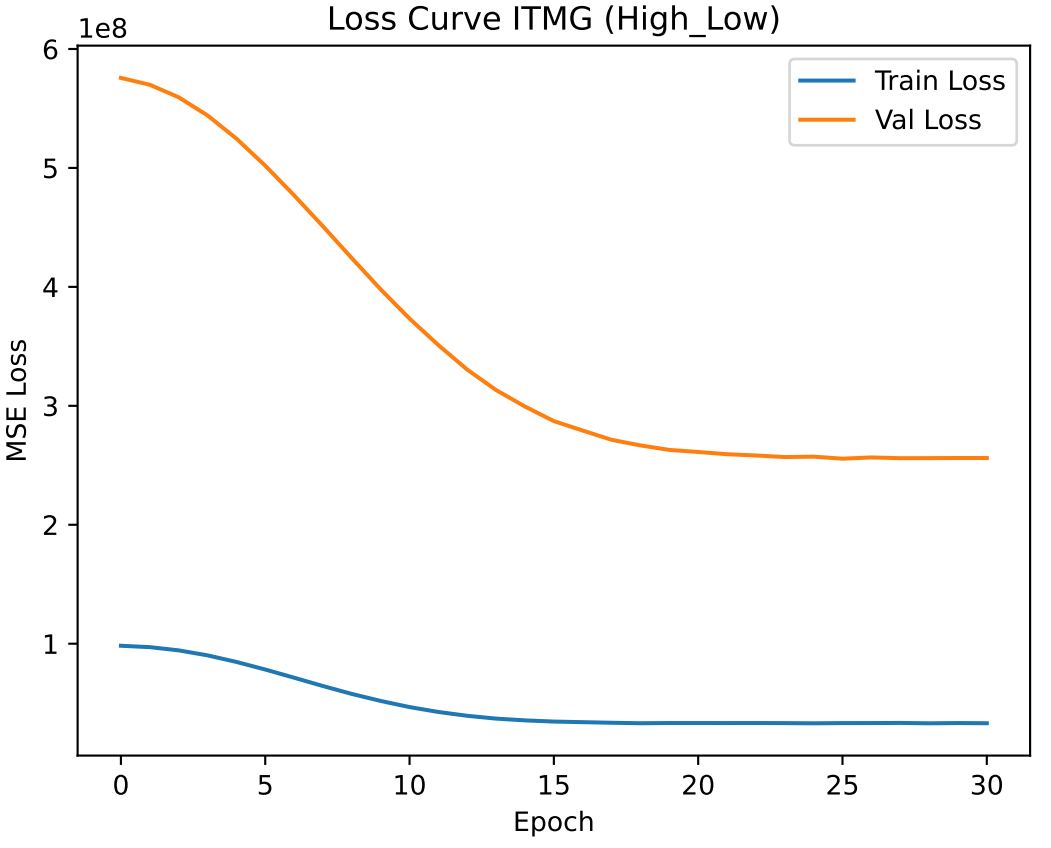

Loss Curve ICBP (High_Low)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

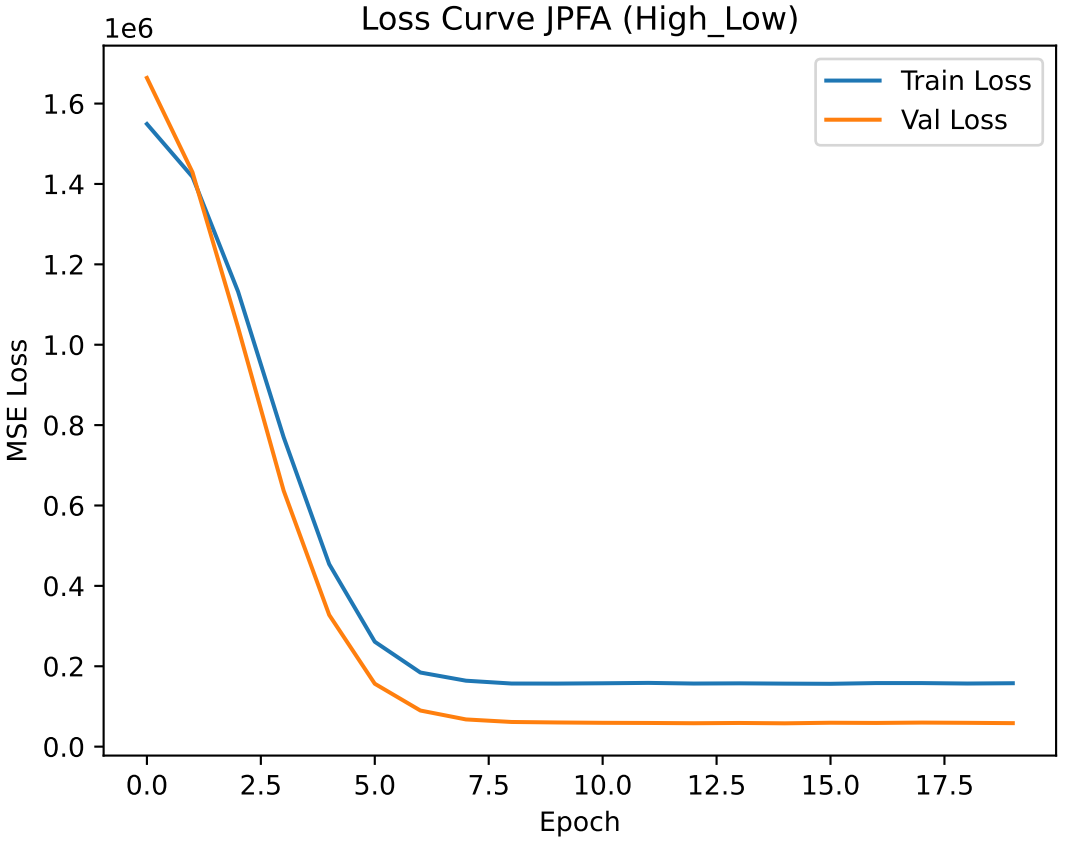

Loss Curve INCO (High_Low)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
Epoch

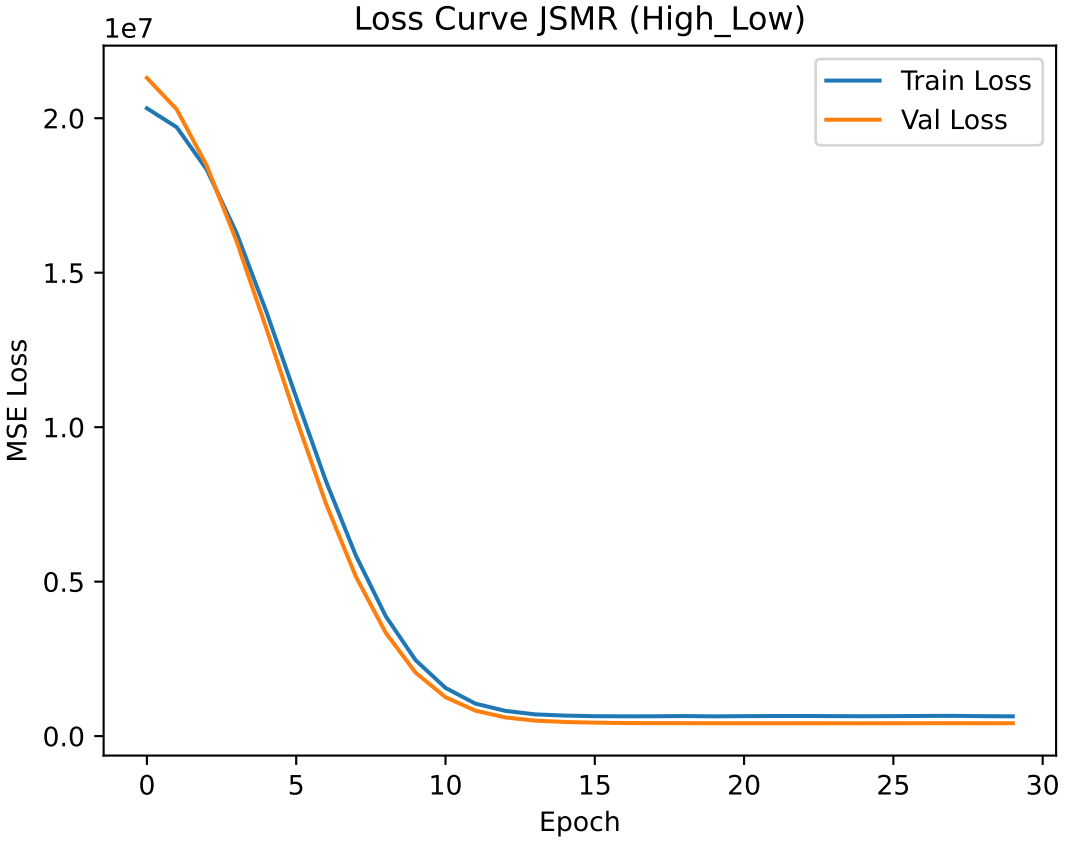

Loss Curve INDF (High_Low)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30

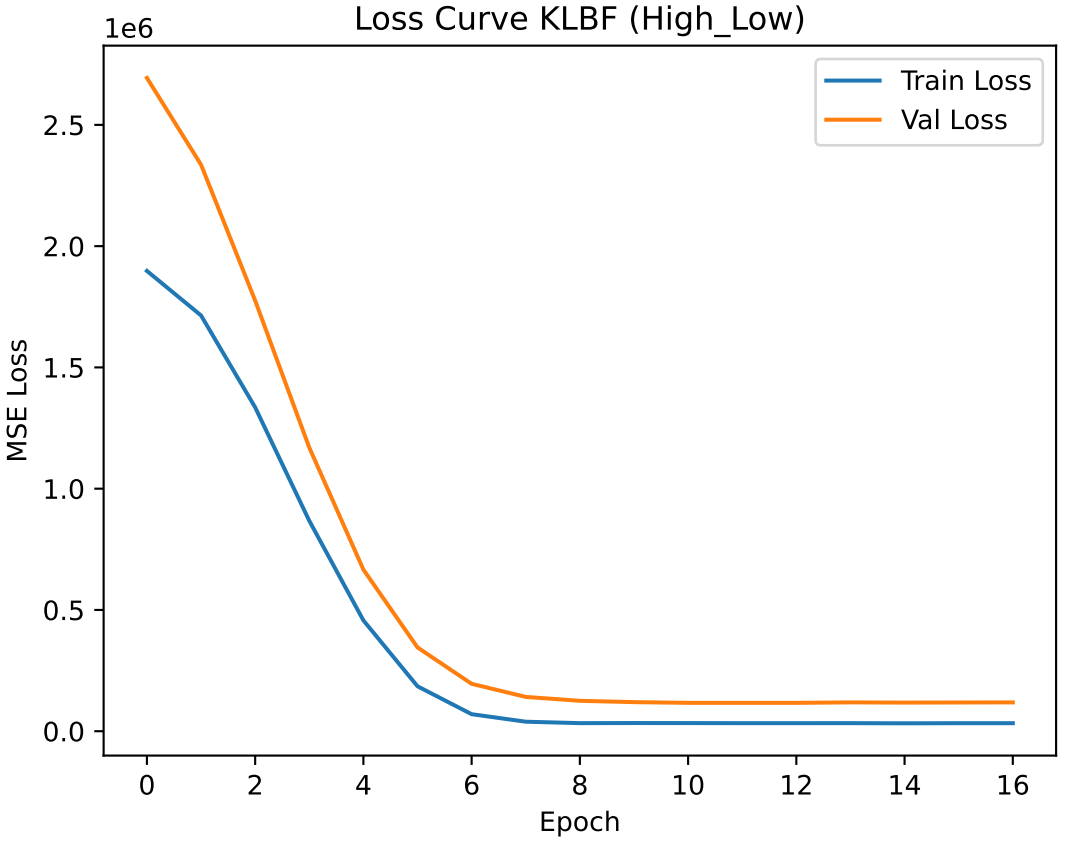

Loss Curve INKP (High_Low)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
1
2
3
4
5
6
7

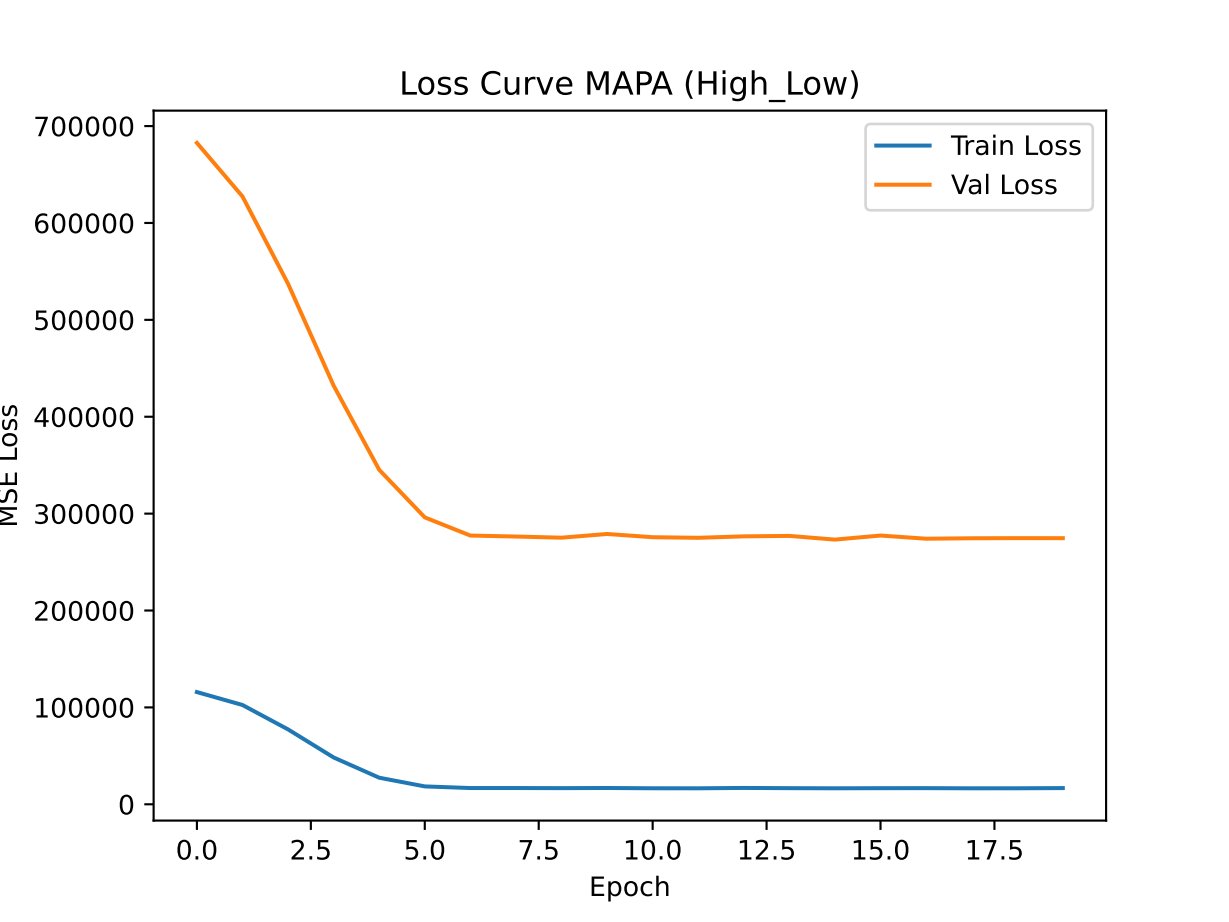

Loss Curve ISAT (High_Low)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14

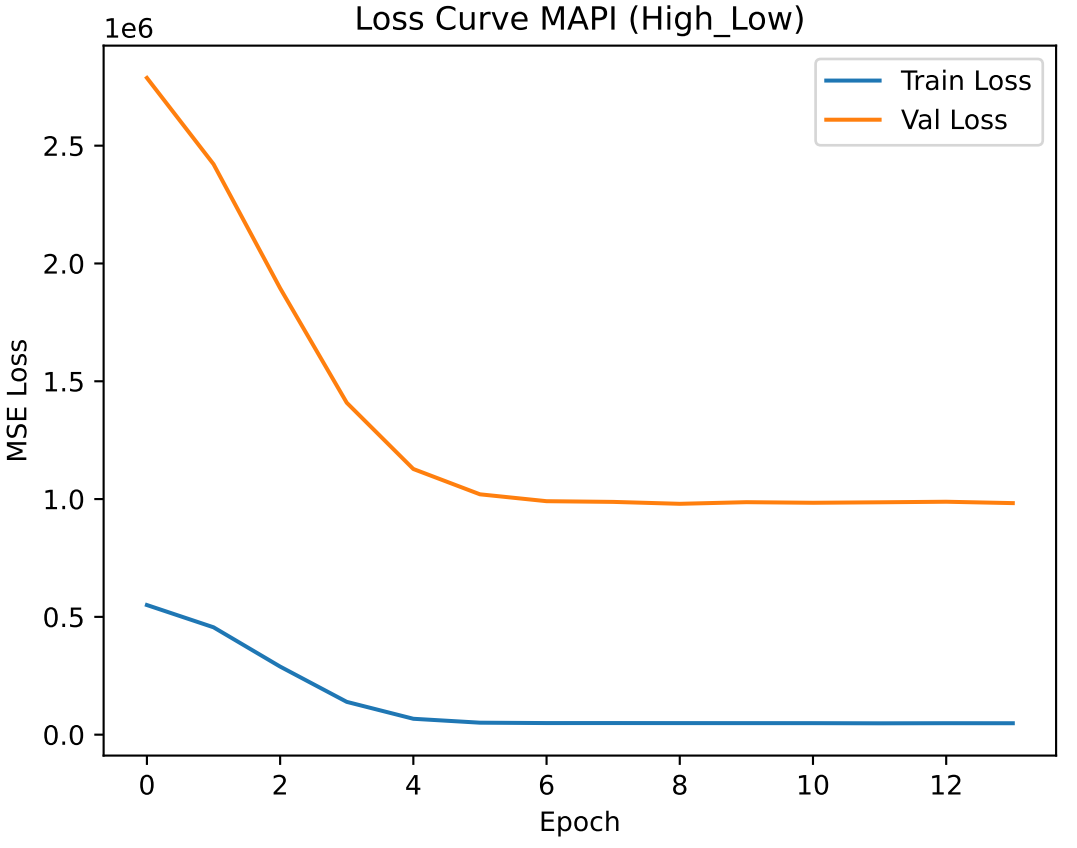

Loss Curve ITMG (High_Low)
1e8
6
5
4
3
2
1
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

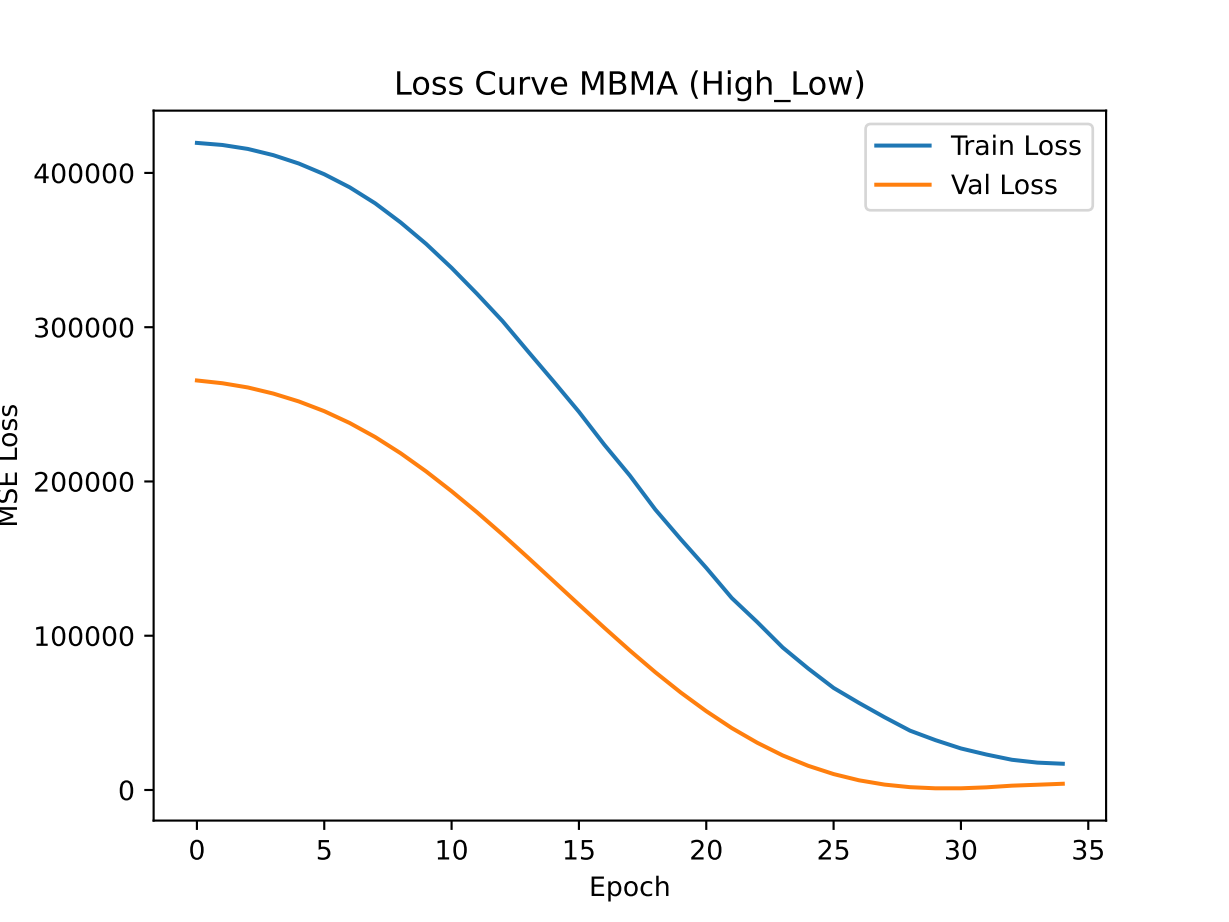

Loss Curve JPFA (High_Low)
1e6
Train Loss
Val Loss
MSE Loss
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

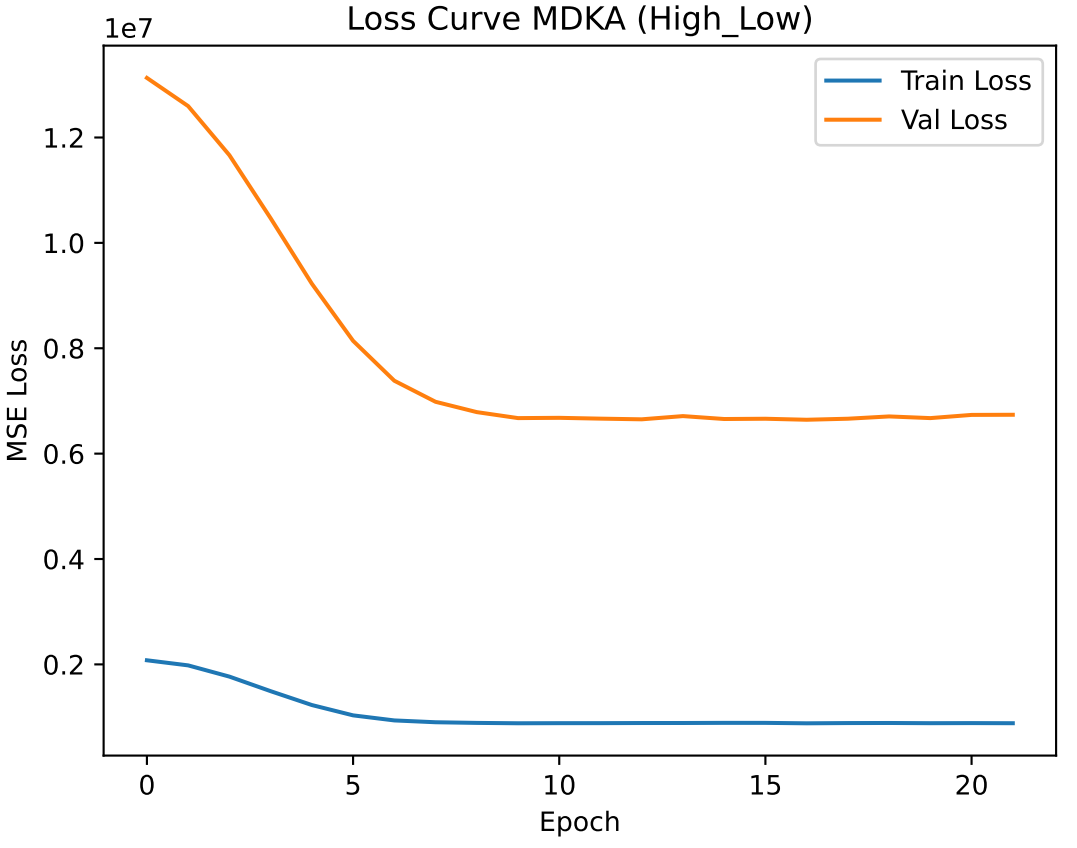

Loss Curve JSMR (High_Low)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30
Epoch

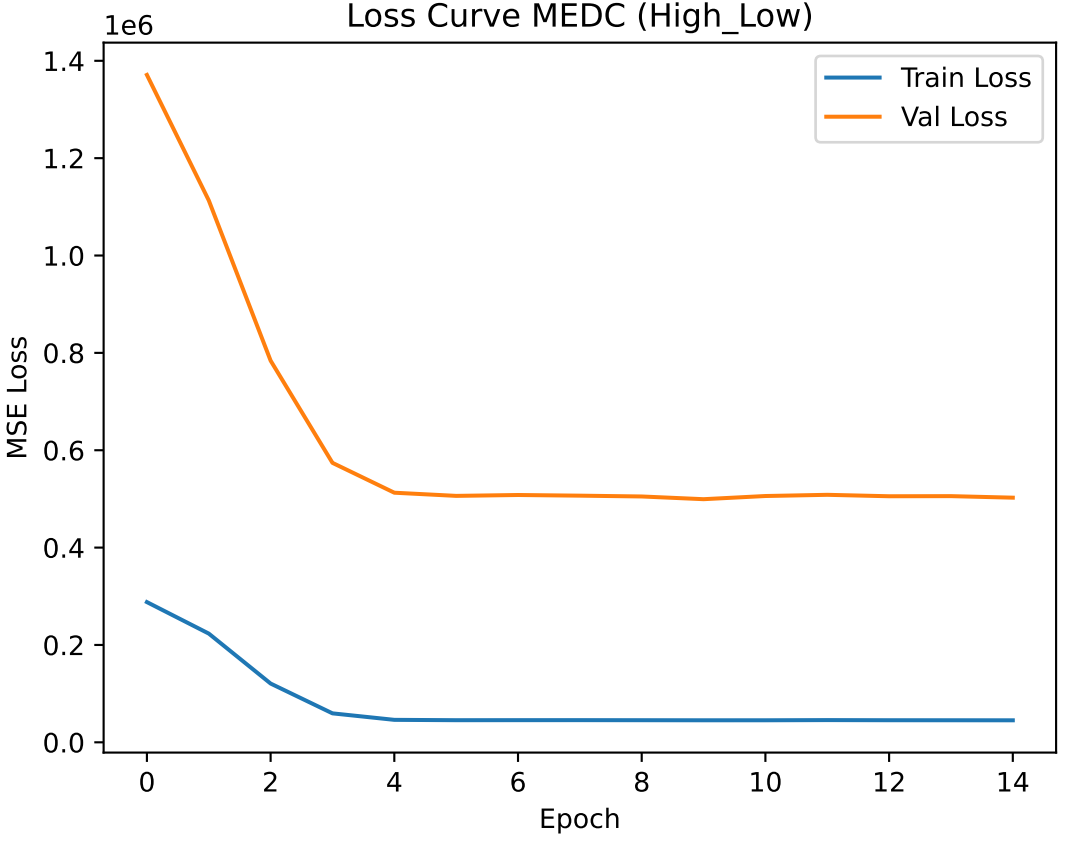

Loss Curve KLBF (High_Low)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
16
Epoch

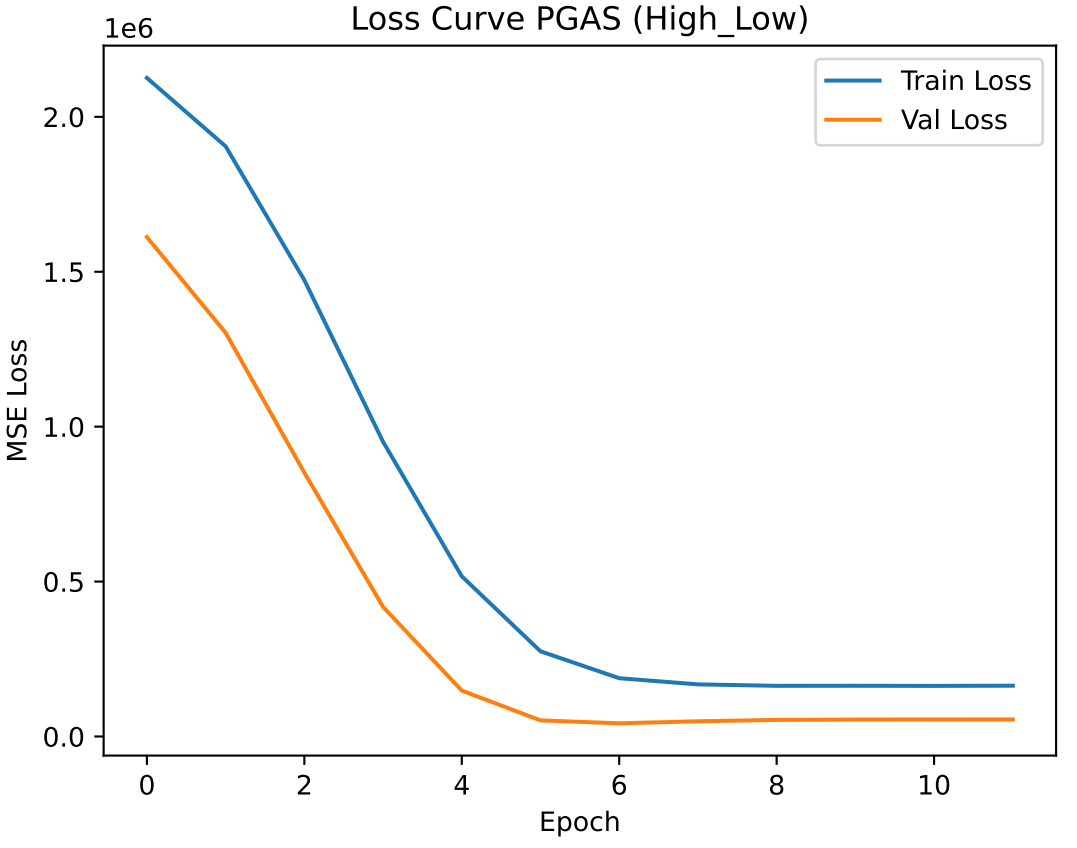

Loss Curve MAPA (High_Low)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

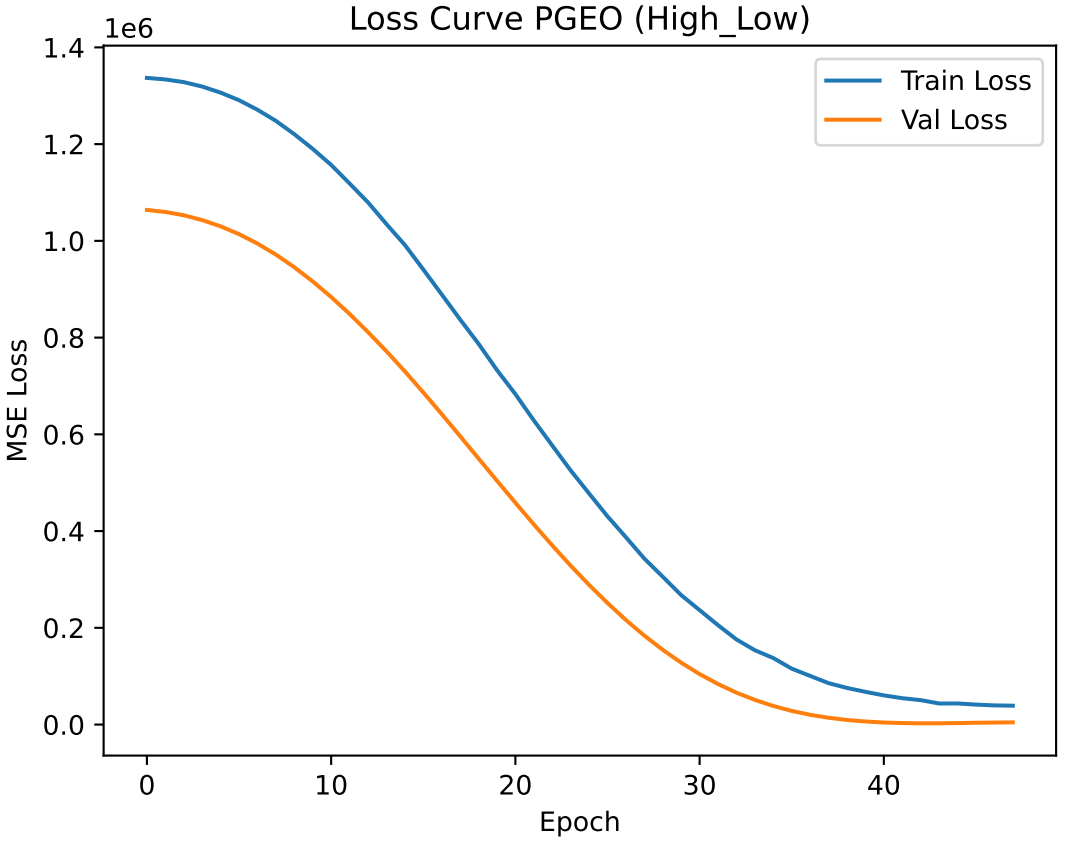

Loss Curve MAPI (High_Low)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch

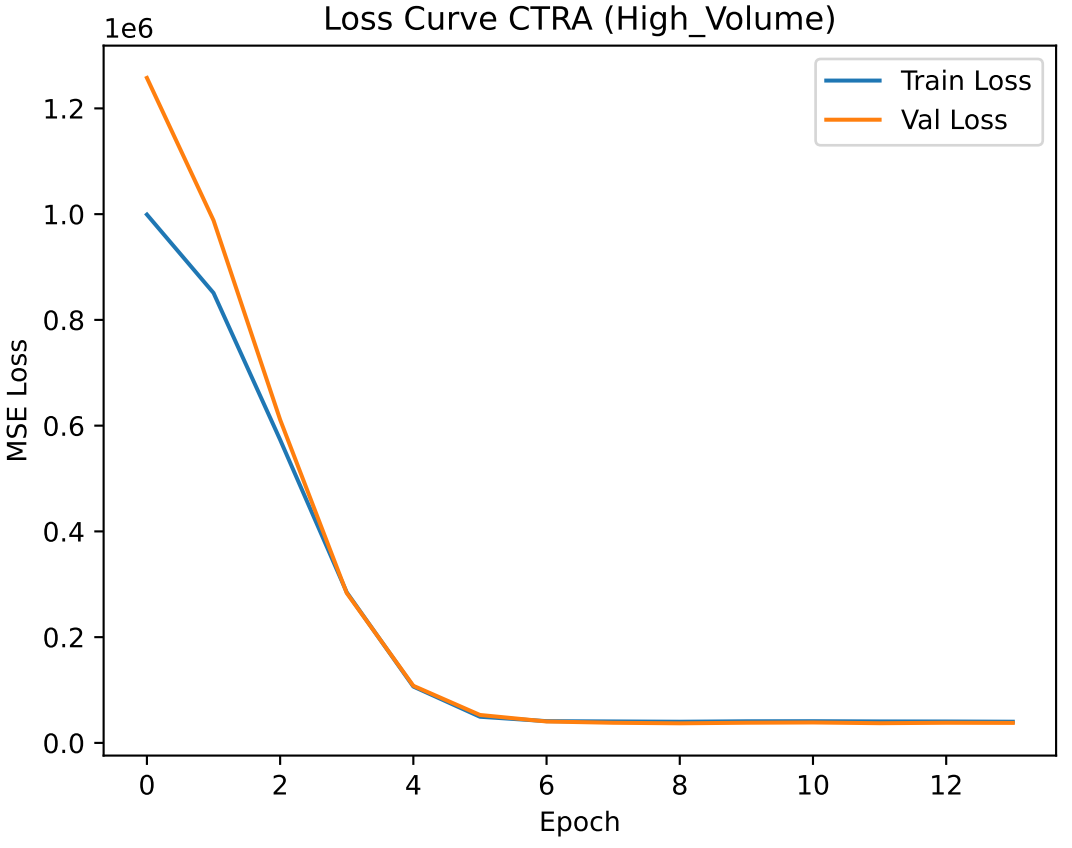

Loss Curve MBMA (High_Low)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

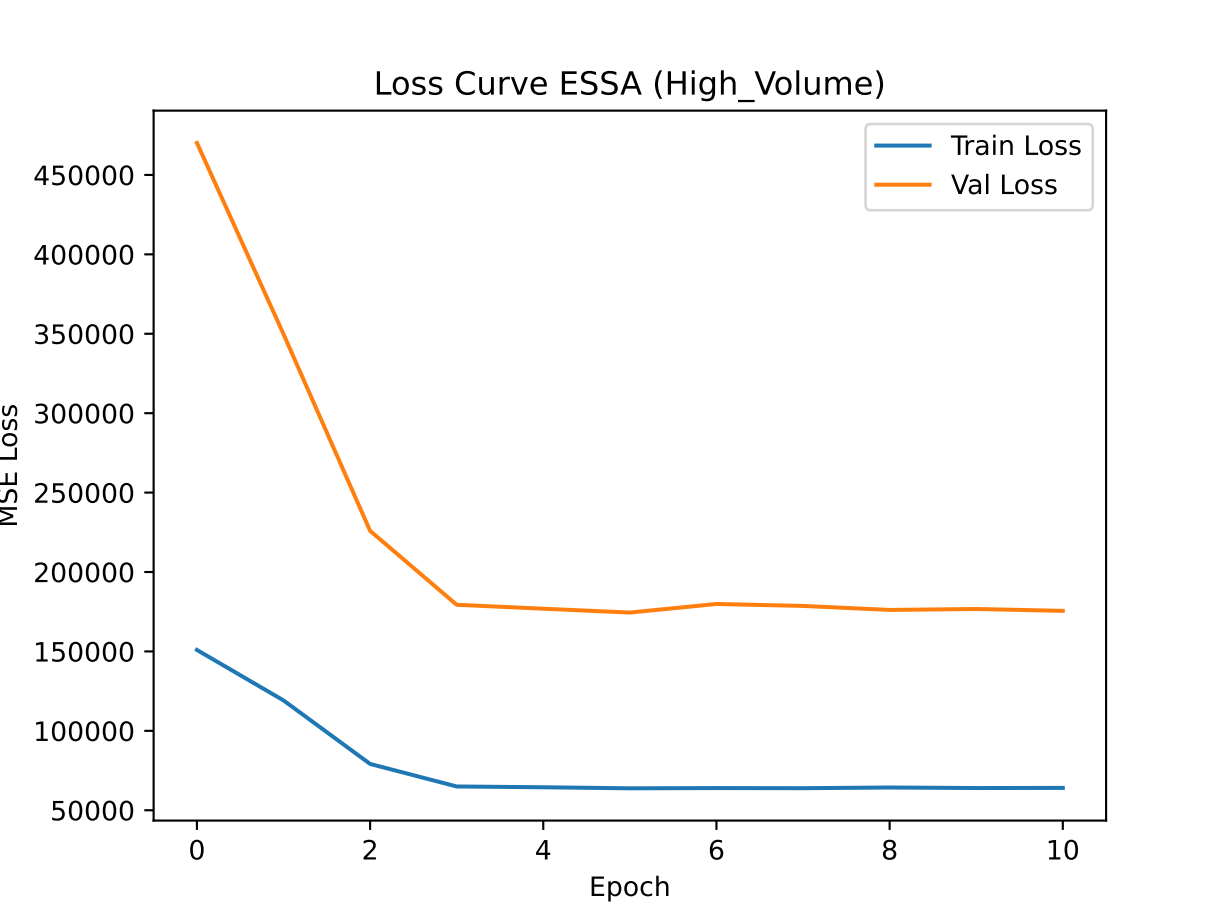

Loss Curve MDKA (High_Low)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0
5
10
15
20
Epoch


Loss Curve MEDC (High_Low)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
14
Epoch


Loss Curve PGAS (High_Low)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
Epoch
Train Loss
Val Loss


Loss Curve PGEO (High_Low)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
10
20
30
40
Epoch
Train Loss
Val Loss


Loss Curve CTRA (High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12


Loss Curve ESSA (High_Volume)
Train Loss
Val Loss
MSE Loss
Epoch
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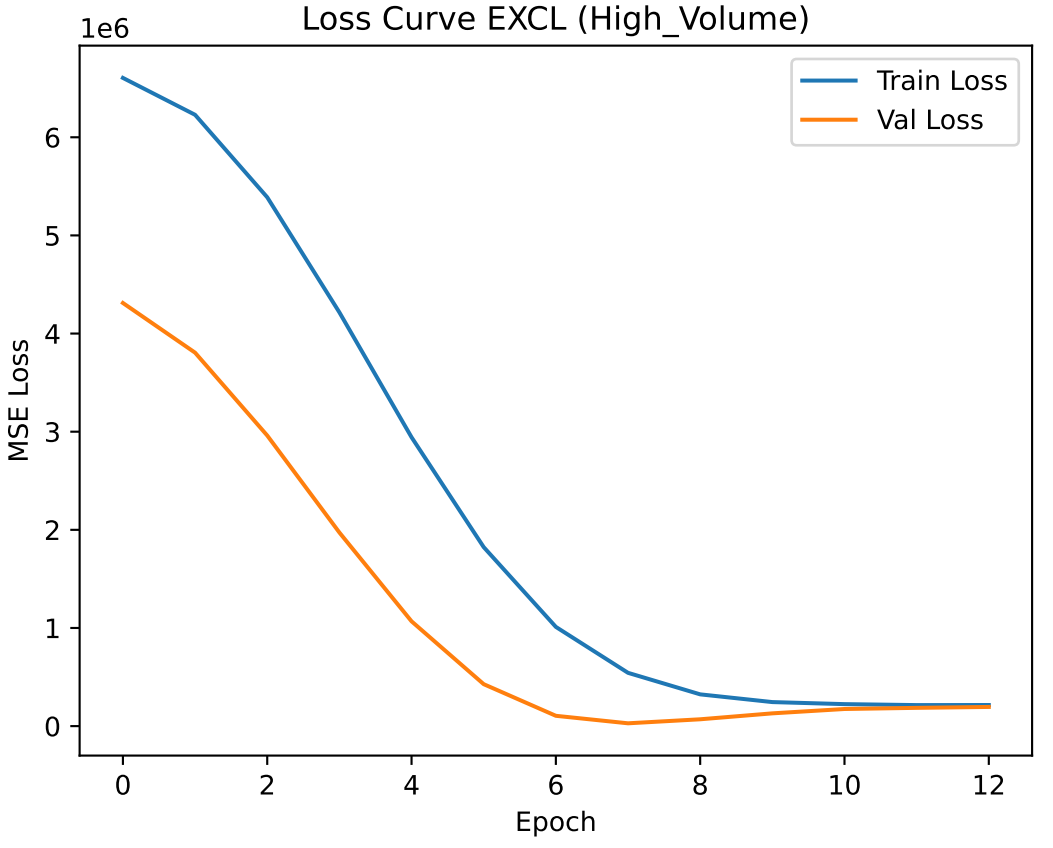
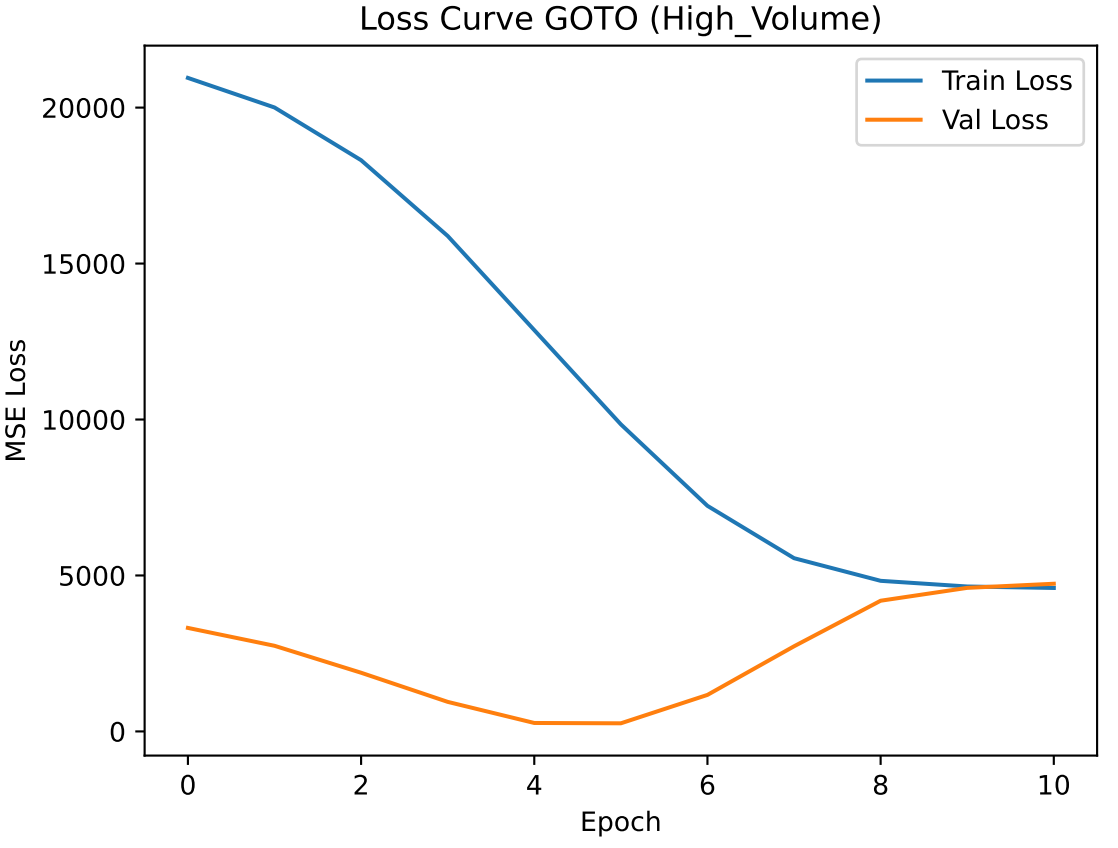
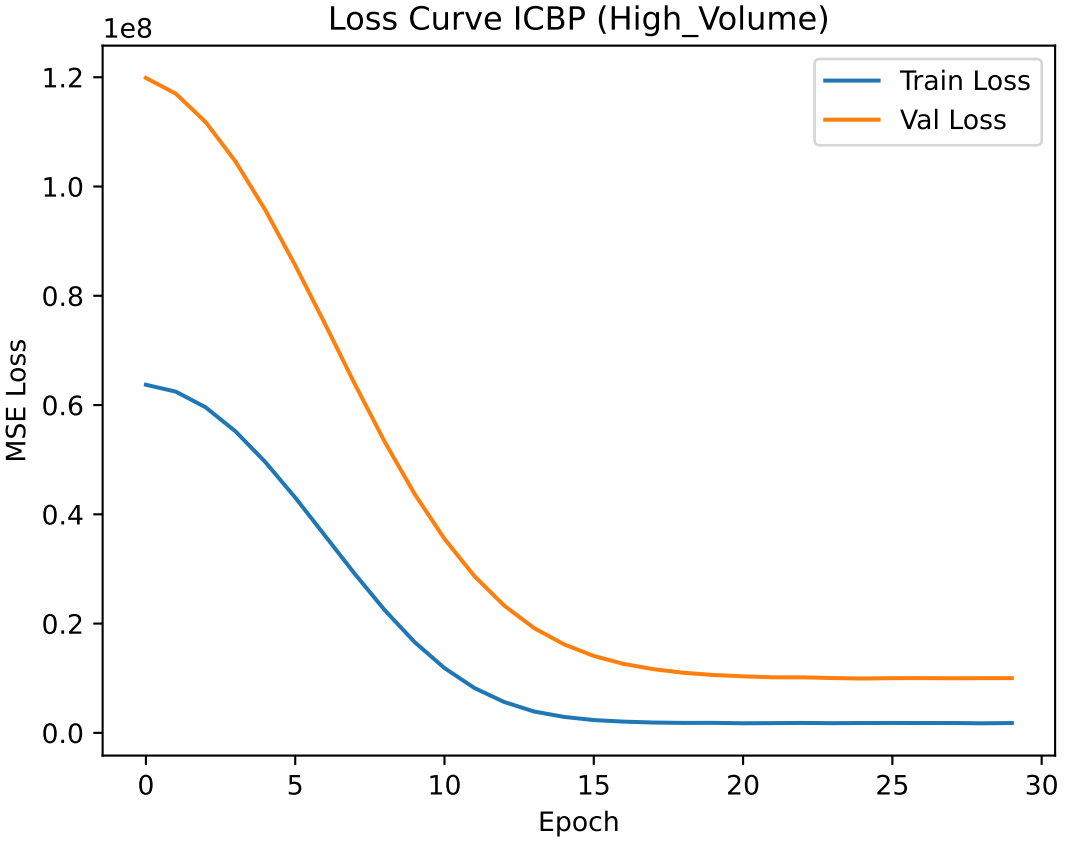
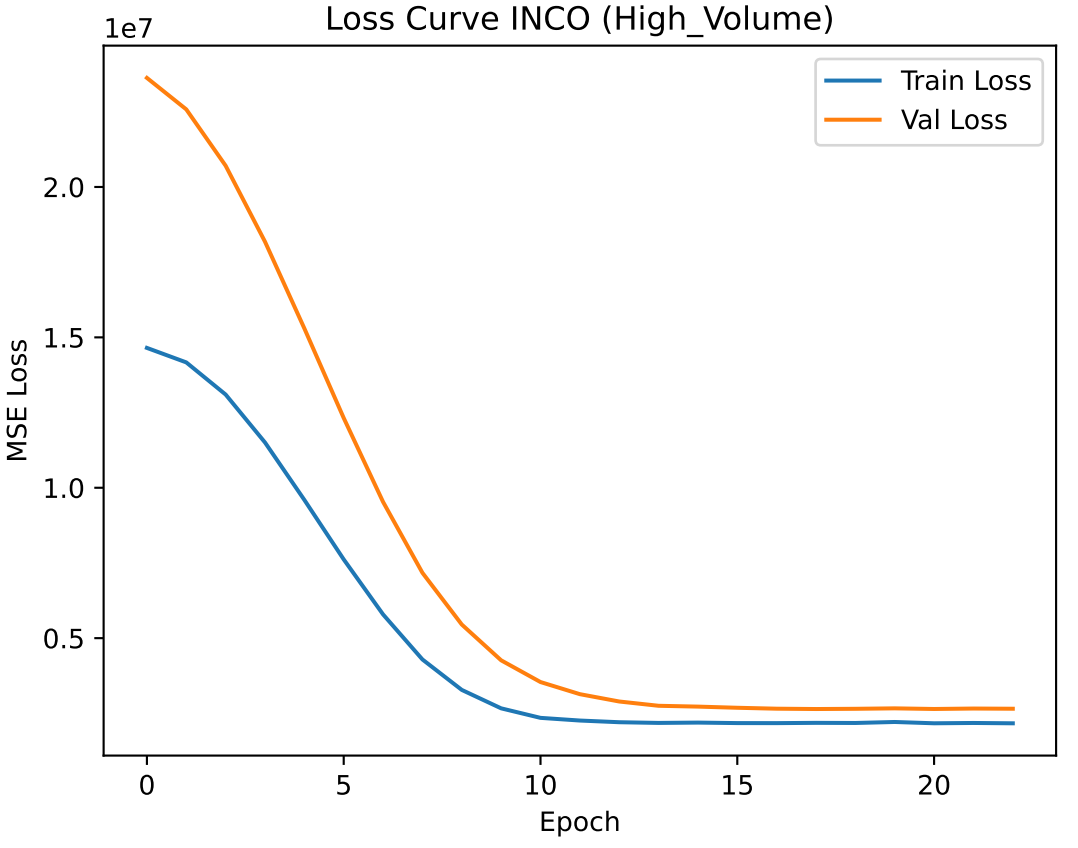
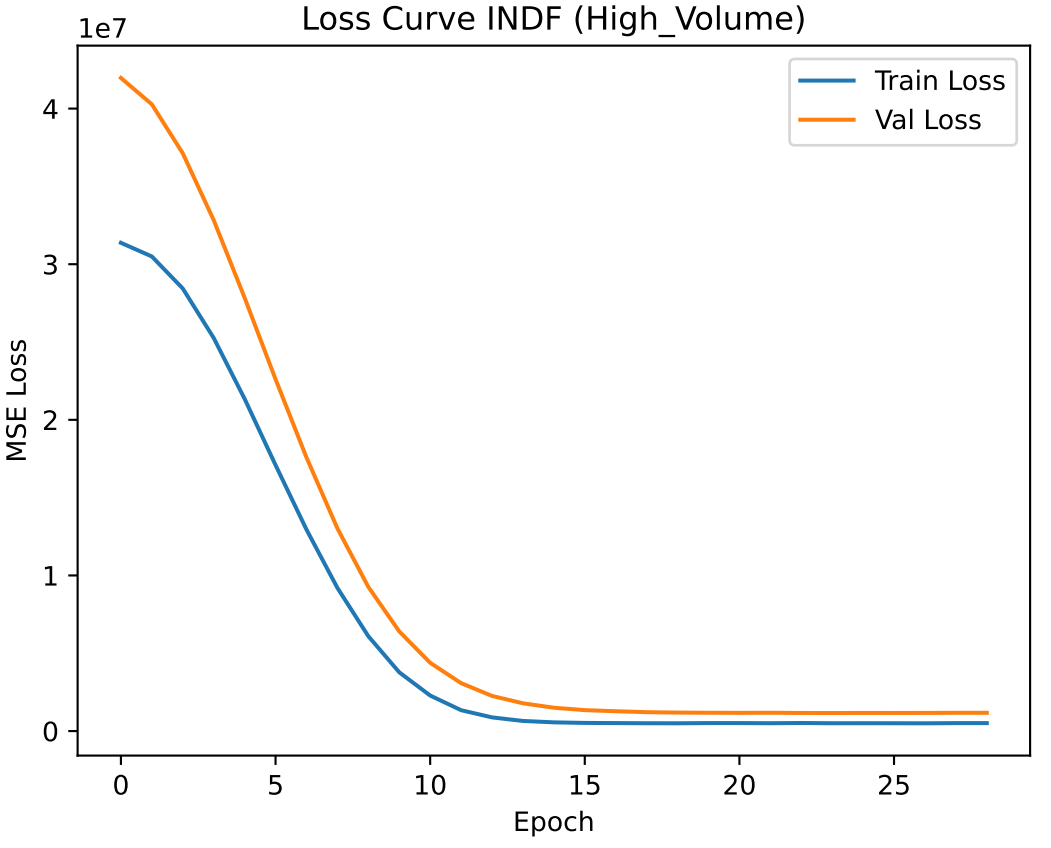
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8
10

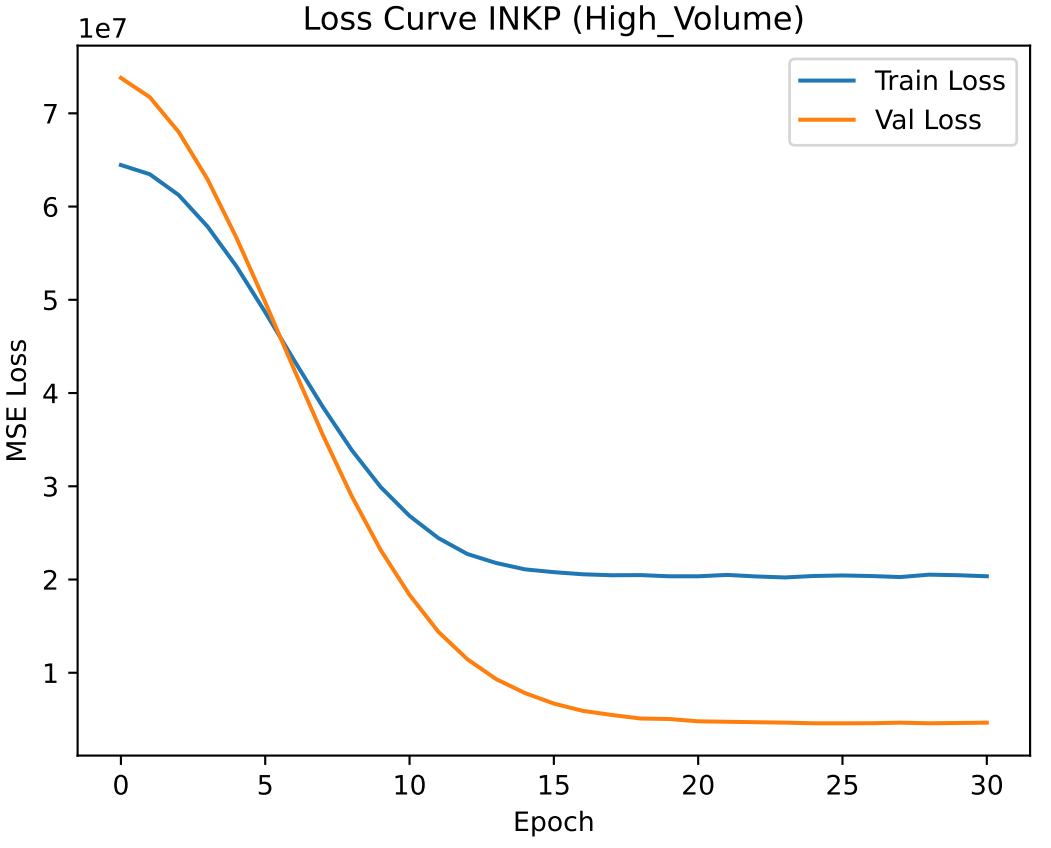

Loss Curve EXCL (High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

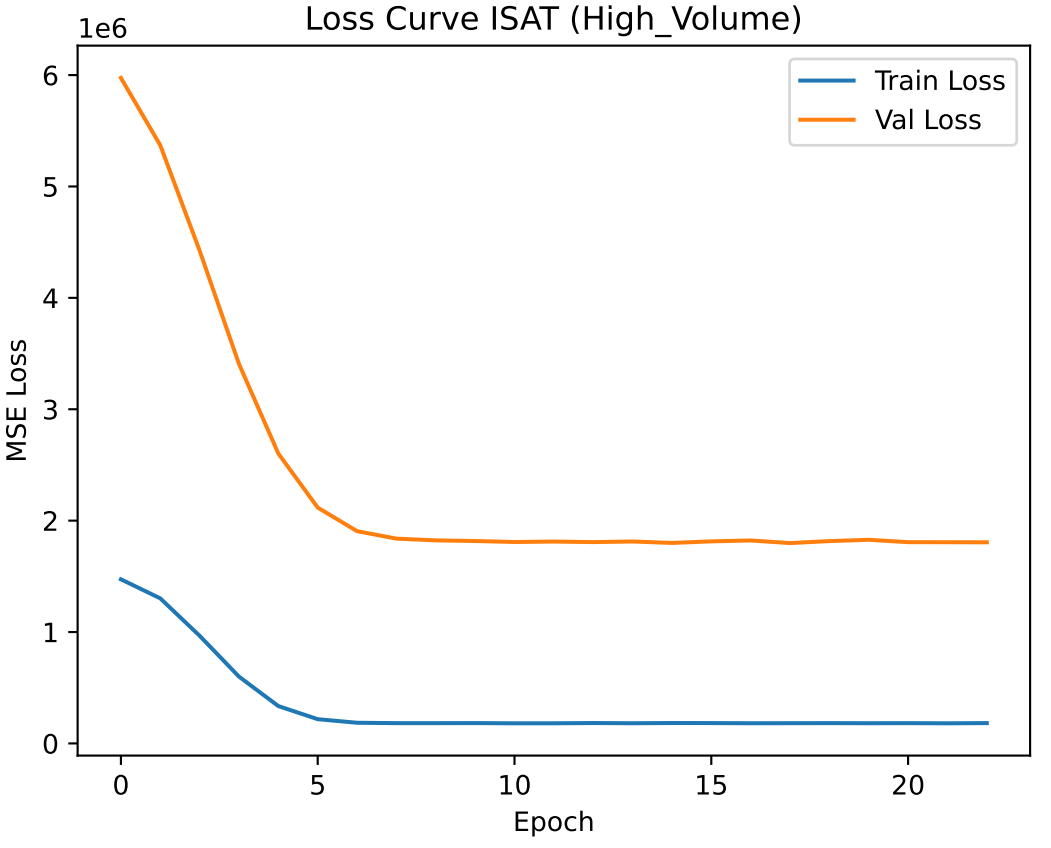

Loss Curve GOTO (High_Volume)
Train Loss
Val Loss
MSE Loss
Epoch
20000
15000
10000
5000
0
0
2
4
6
8
10

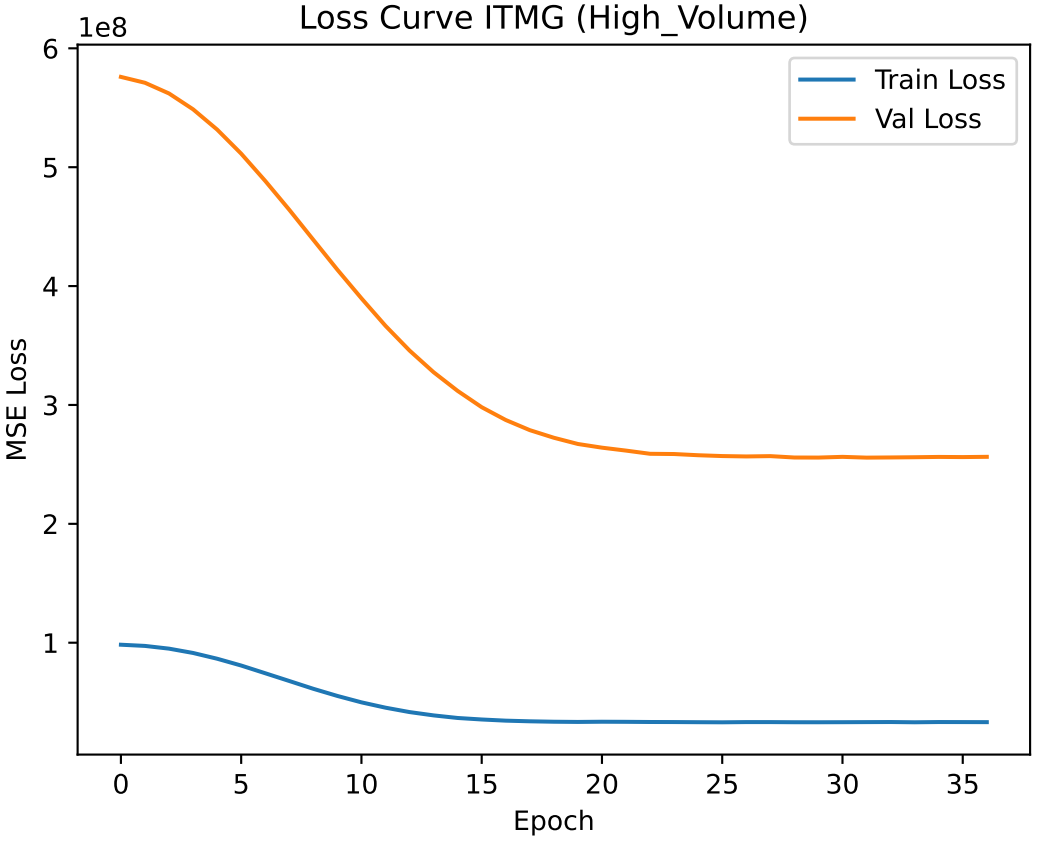

Loss Curve ICBP (High_Volume)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch

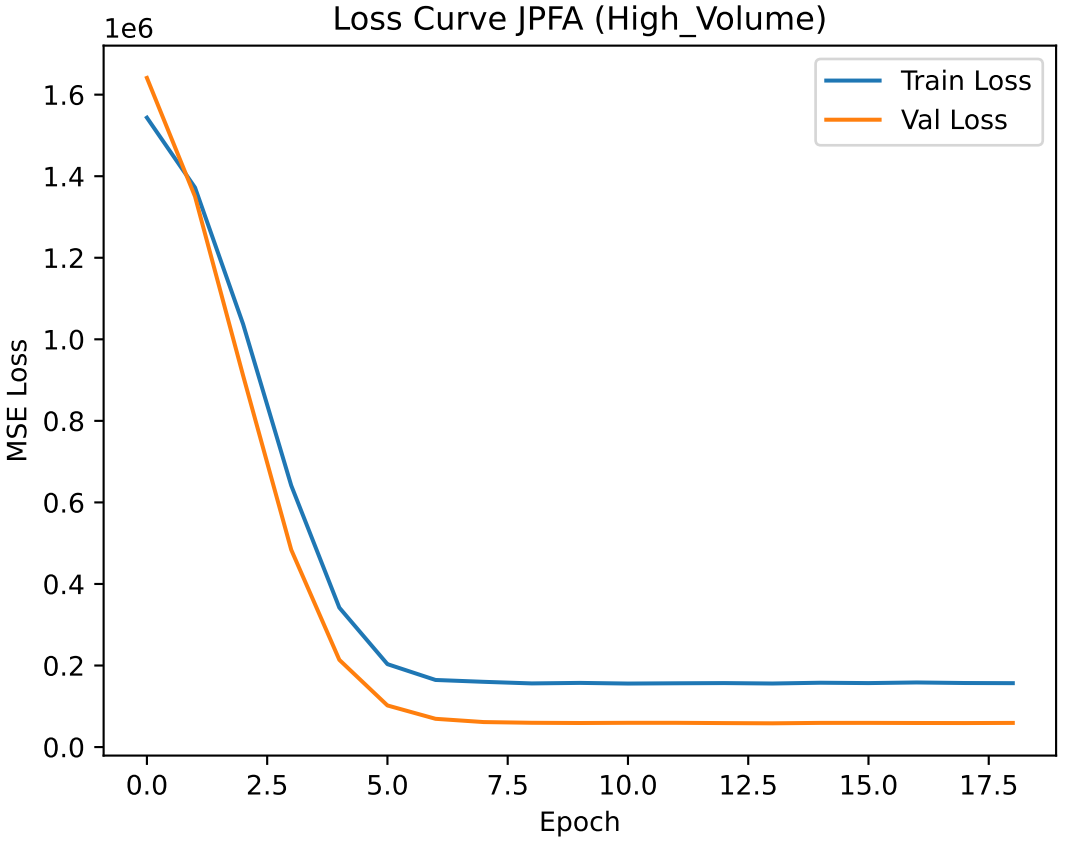

Loss Curve INCO (High_Volume)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
Epoch

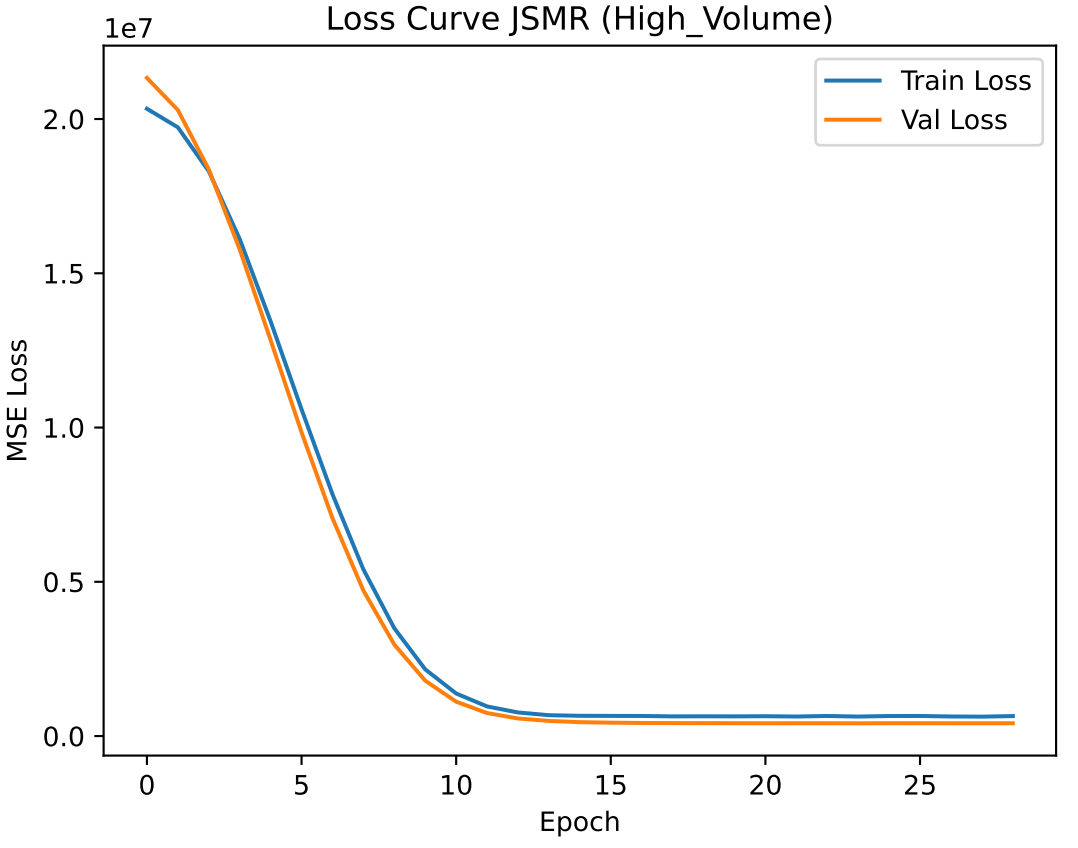

Loss Curve INDF (High_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25

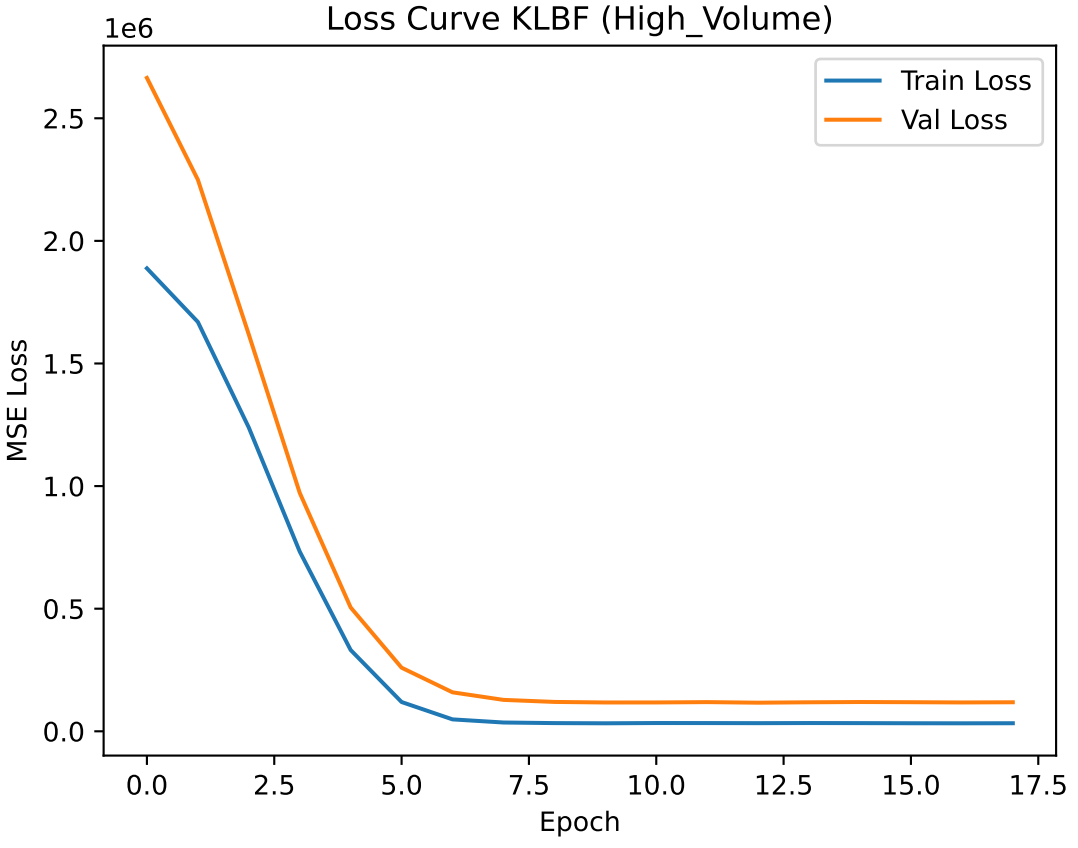

Loss Curve INKP (High_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
1
2
3
4
5
6
7

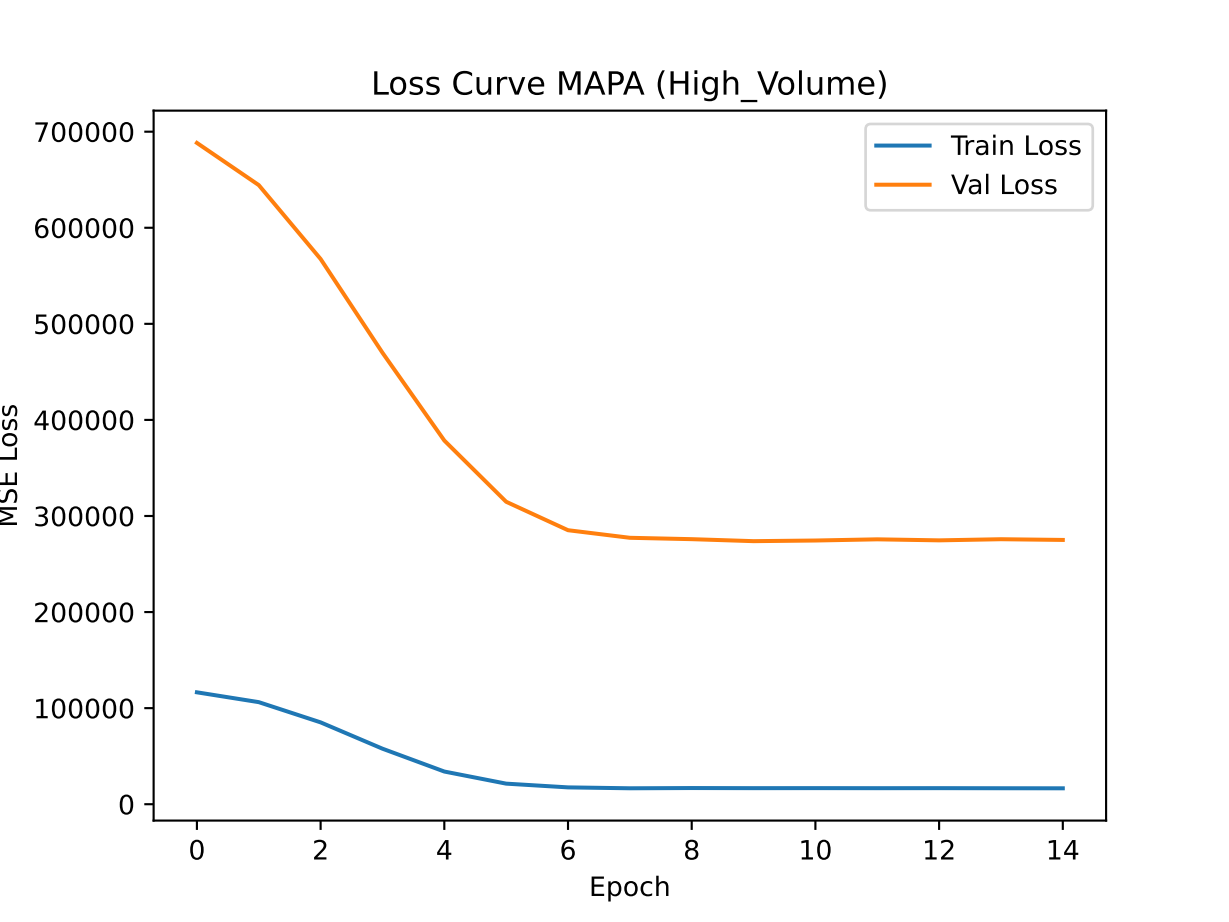

Loss Curve ISAT (High_Volume)
1e6
6
5
4
3
2
1
0
MSE Loss
0
5
10
15
20
Epoch
Train Loss
Val Loss

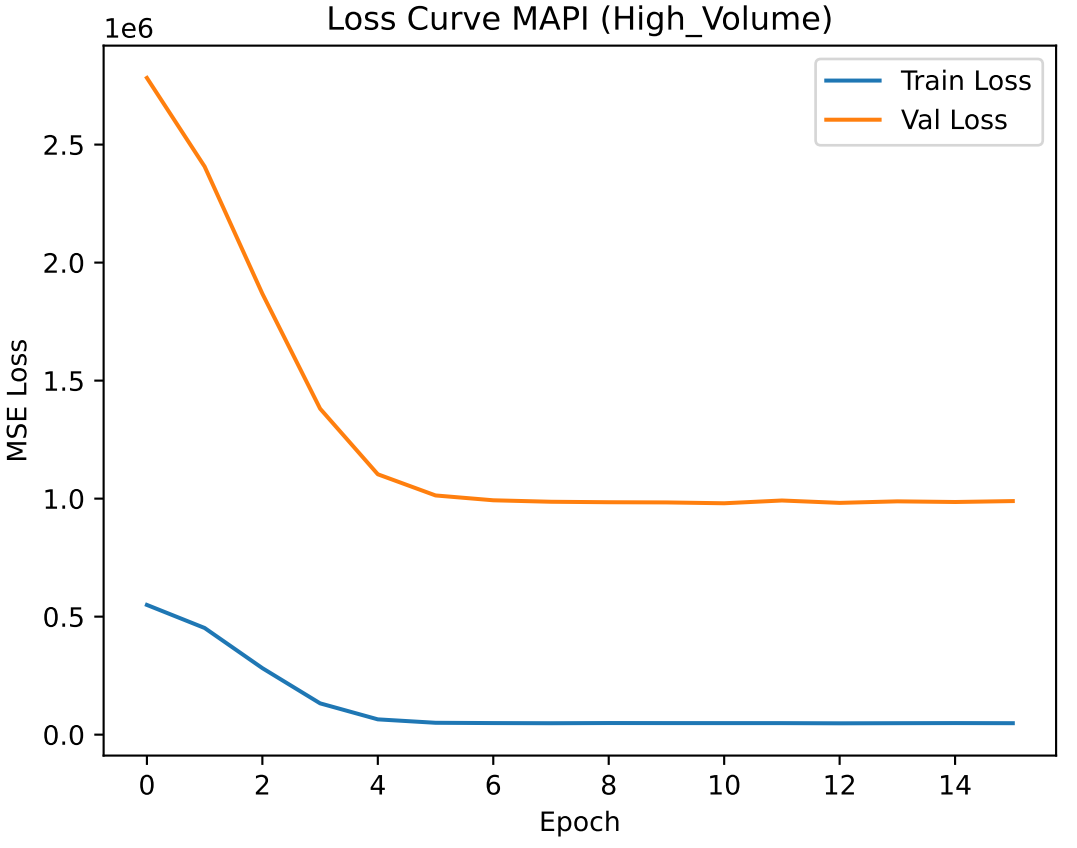

Loss Curve ITMG (High_Volume)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

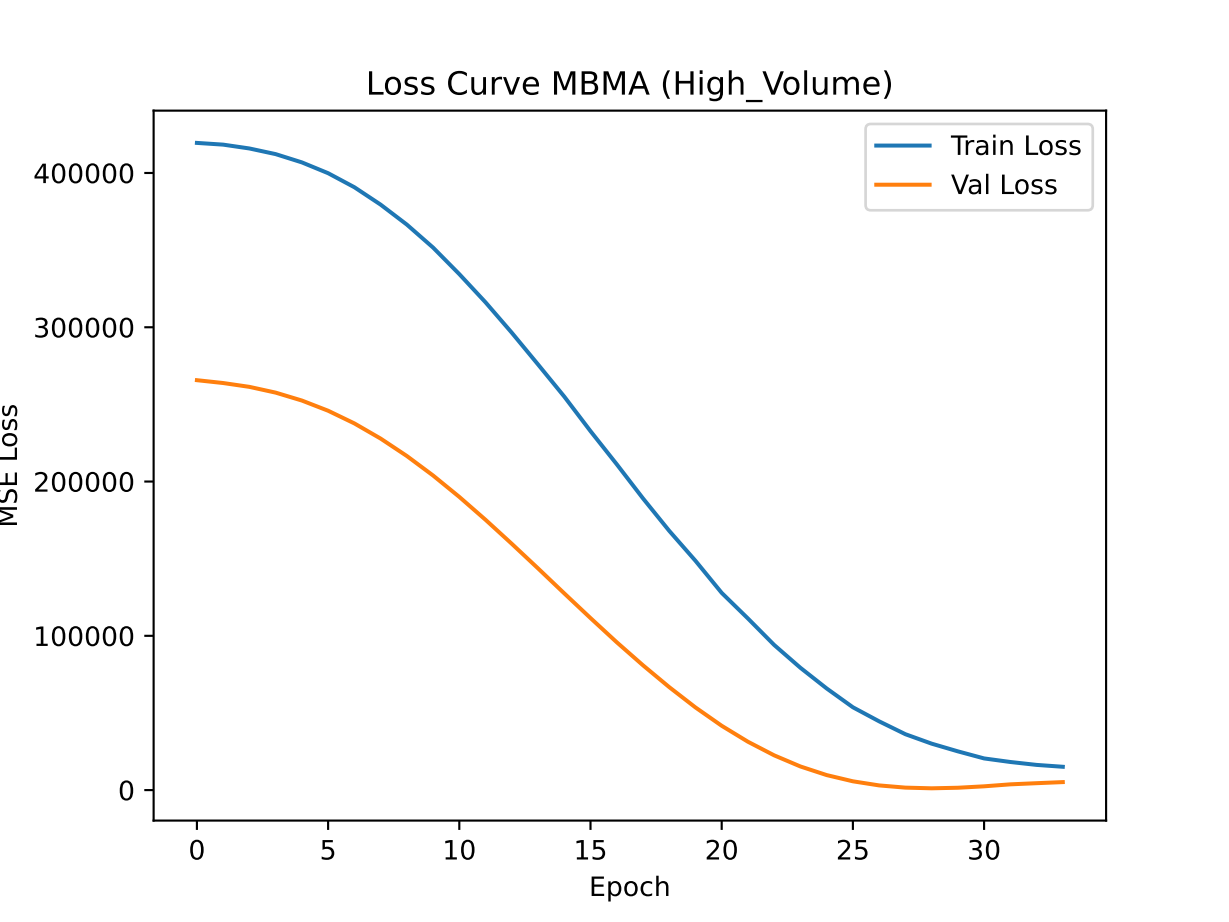

Loss Curve JPFA (High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

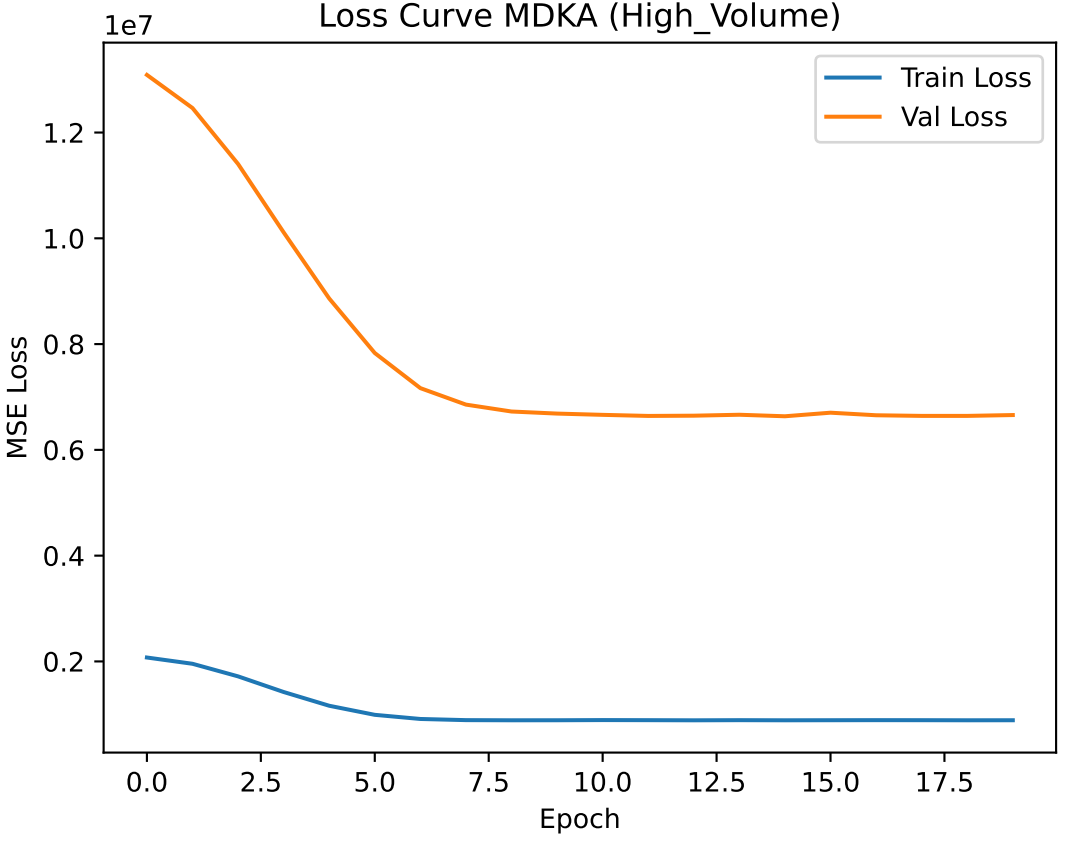

Loss Curve JSMR (High_Volume)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

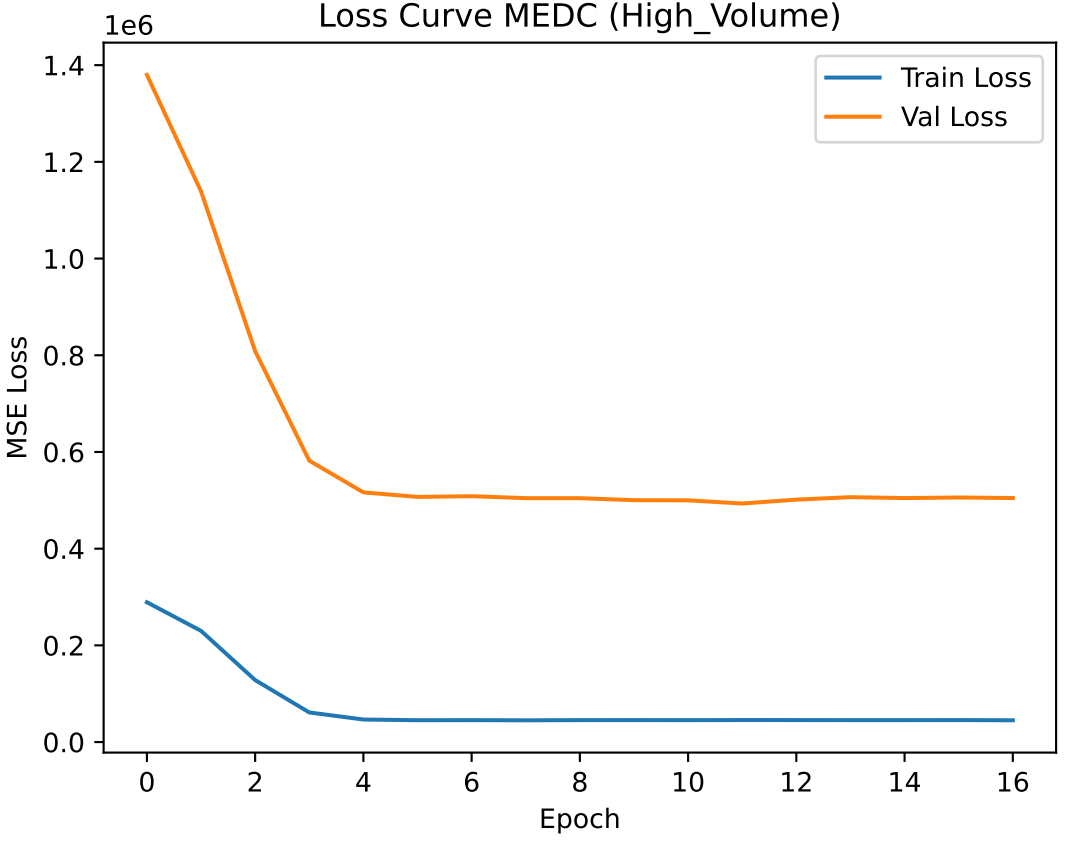

Loss Curve KLBF (High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

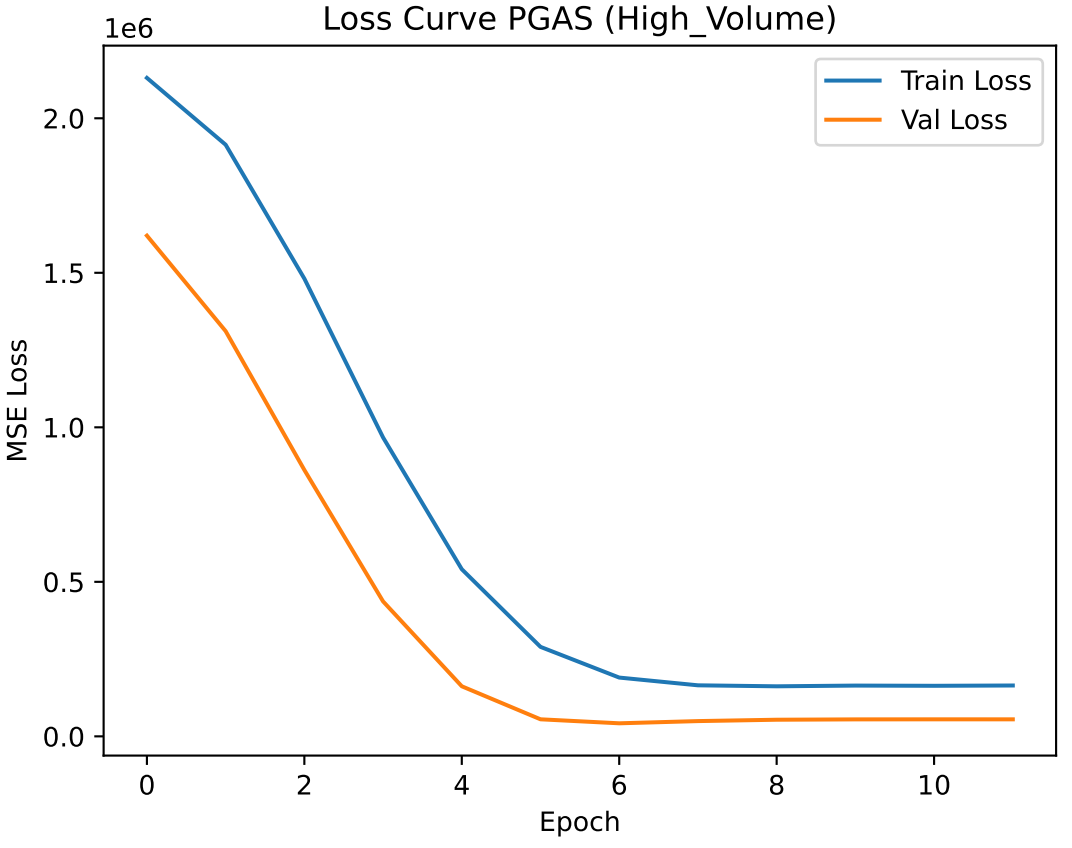

Loss Curve MAPA (High_Volume)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14

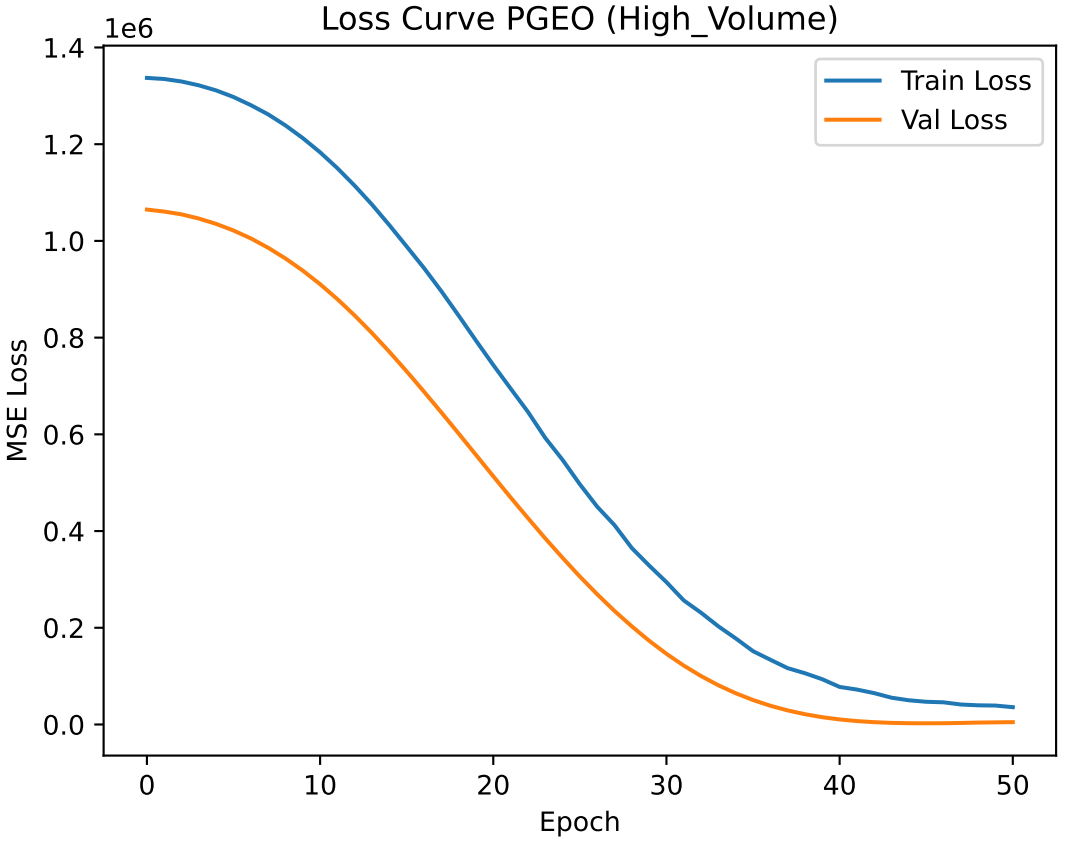

Loss Curve MAPI (High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

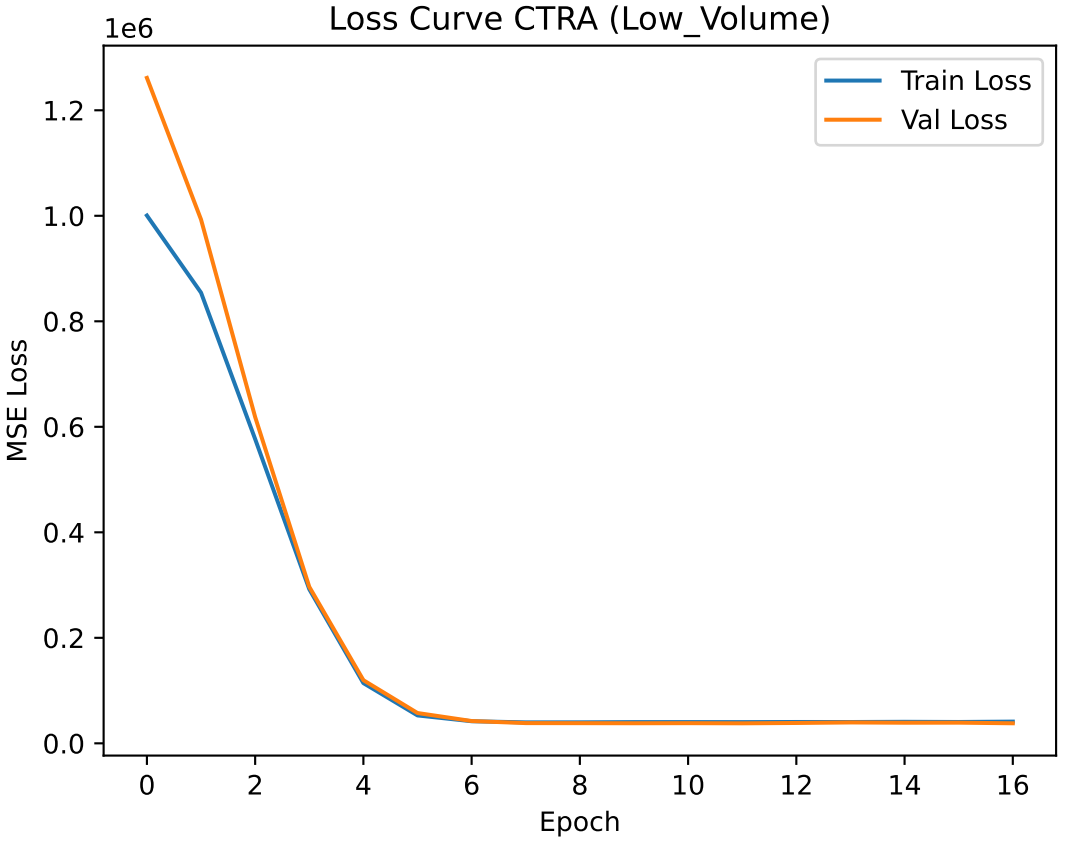

Loss Curve MBMA (High_Volume)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
Epoch

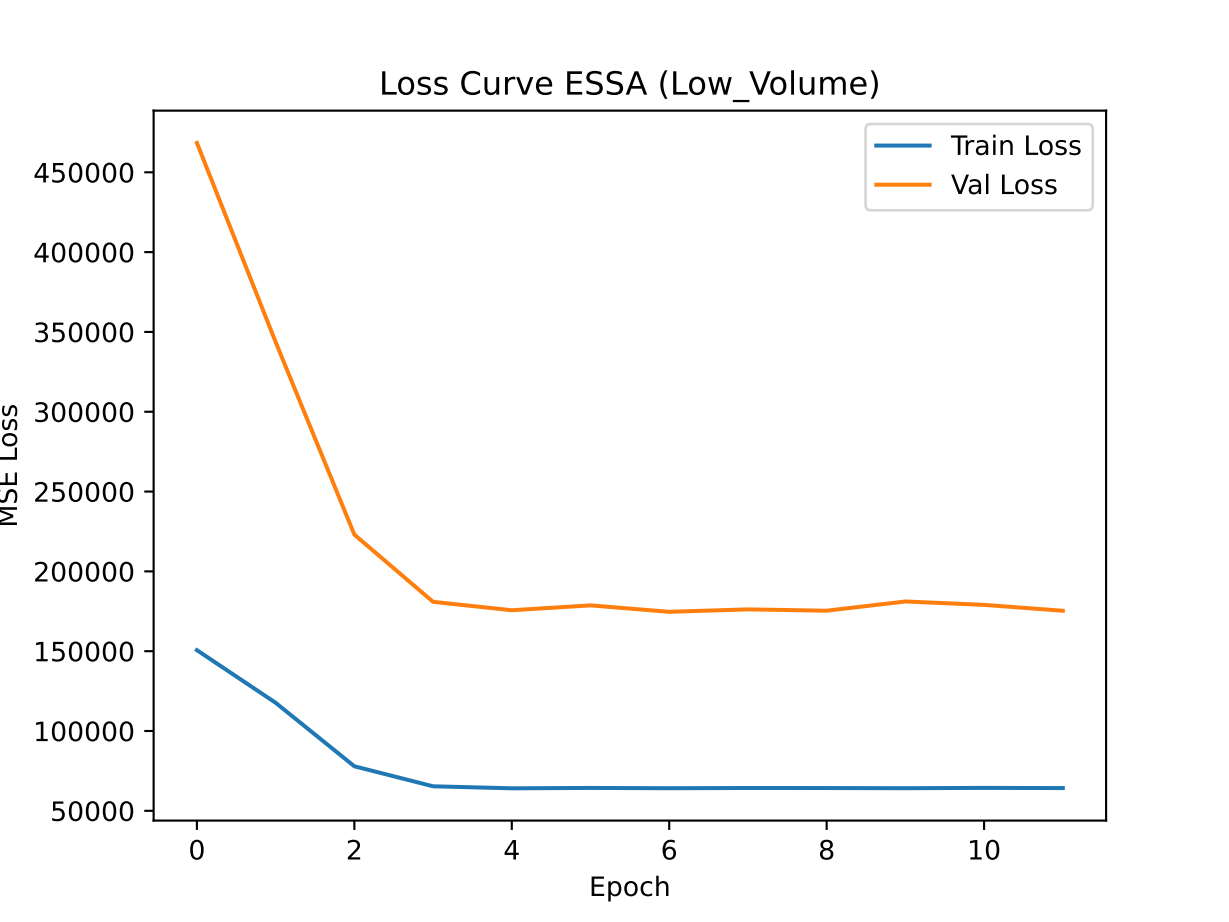

Loss Curve MDKA (High_Volume)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

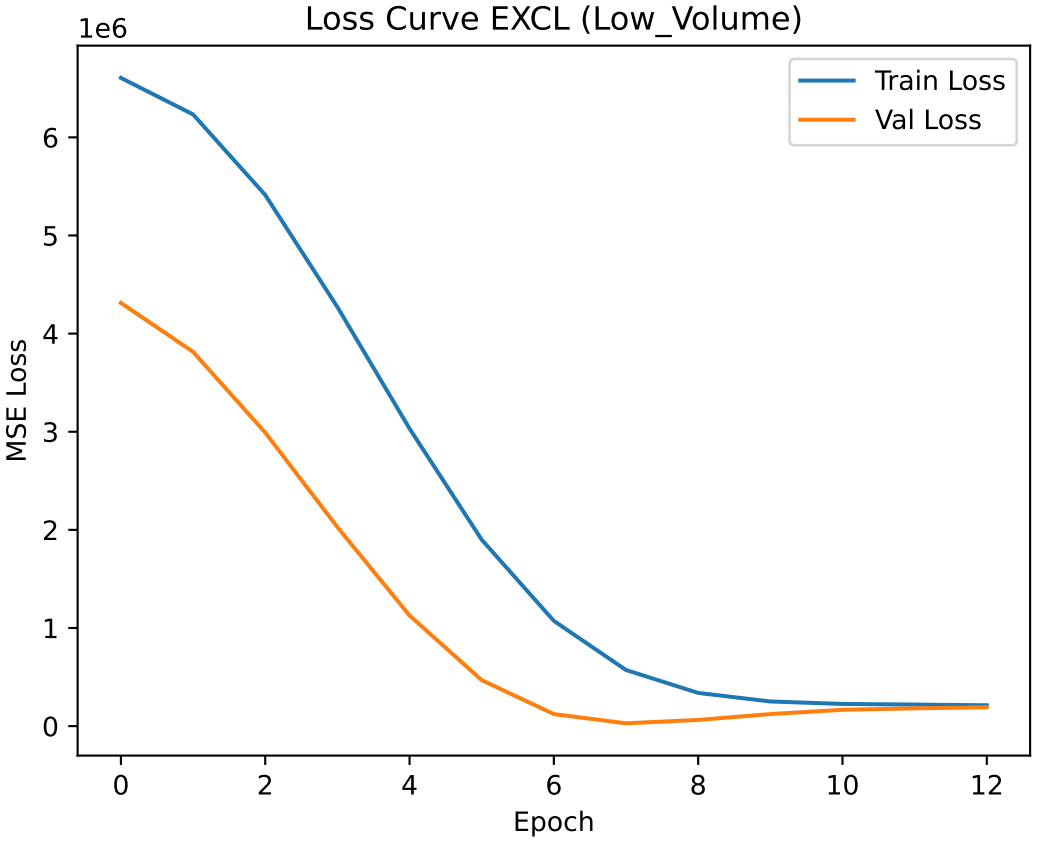

Loss Curve MEDC (High_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
14
16
Epoch

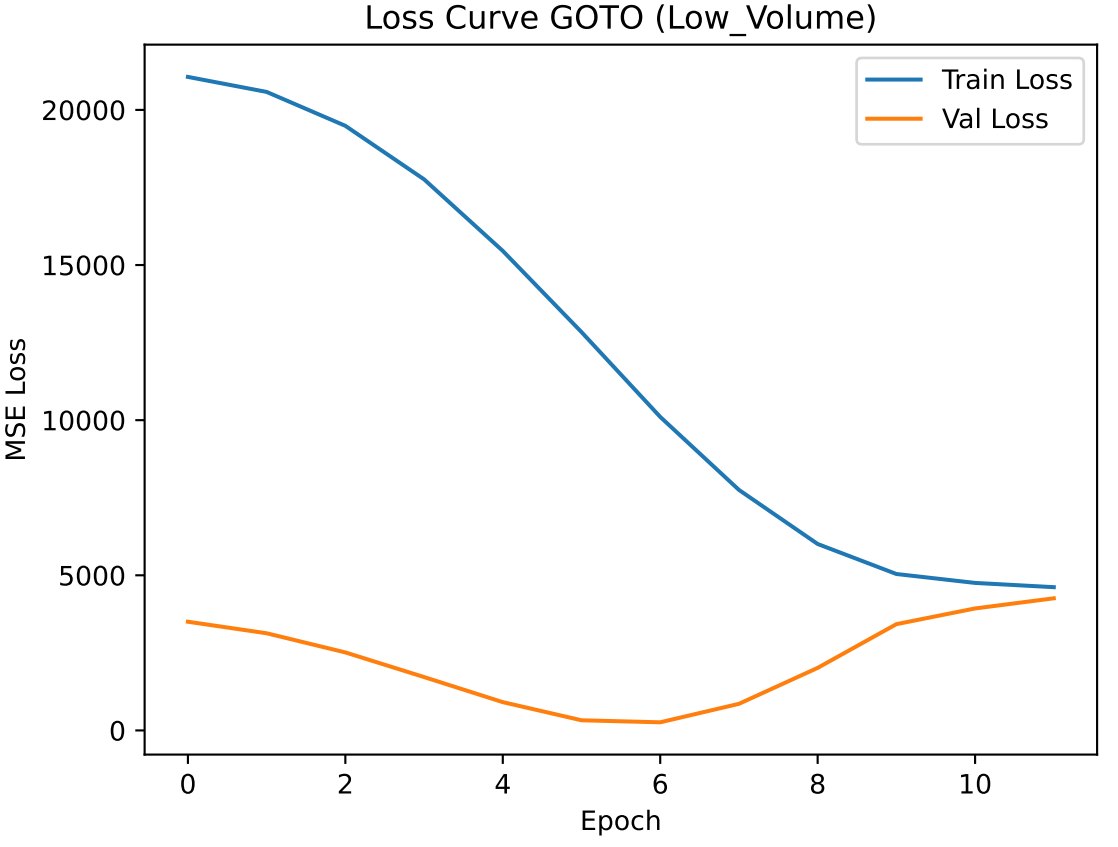

Loss Curve PGAS (High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

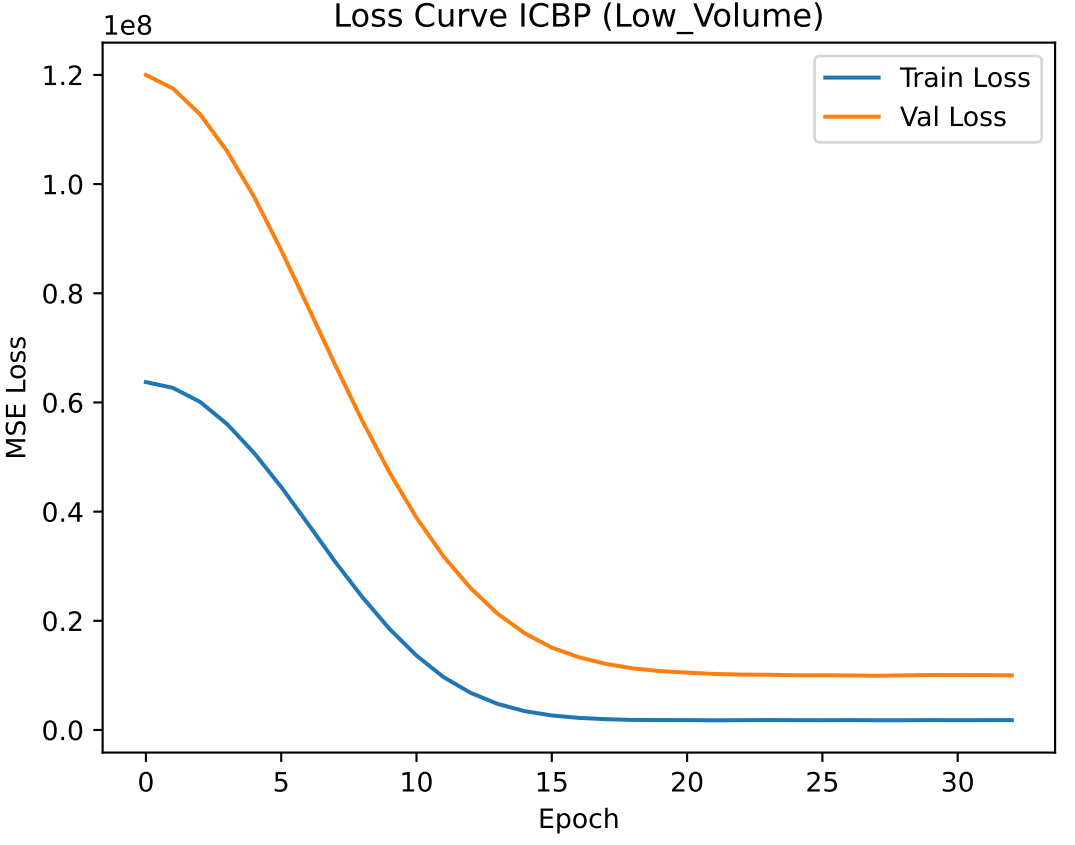

Loss Curve PGEO (High_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

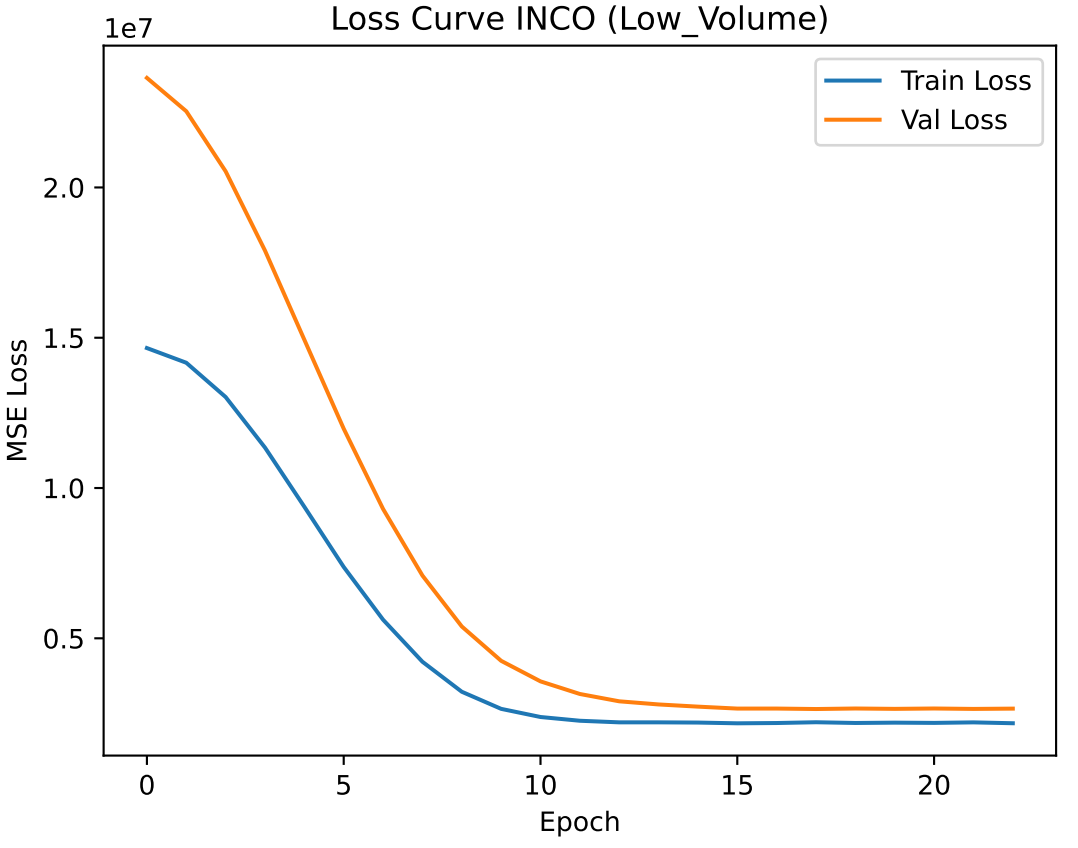

Loss Curve CTRA (Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12
14
16

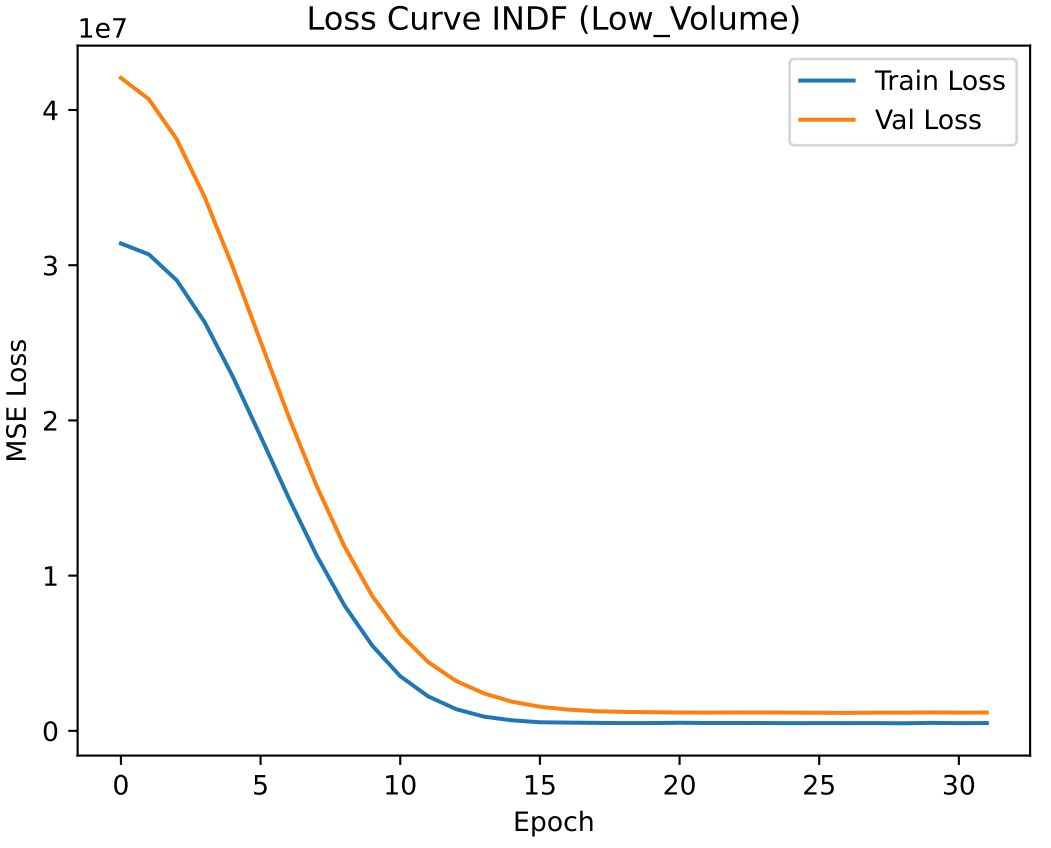

Loss Curve ESSA (Low_Volume)
Train Loss
Val Loss
MSE Loss
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8
10
Epoch

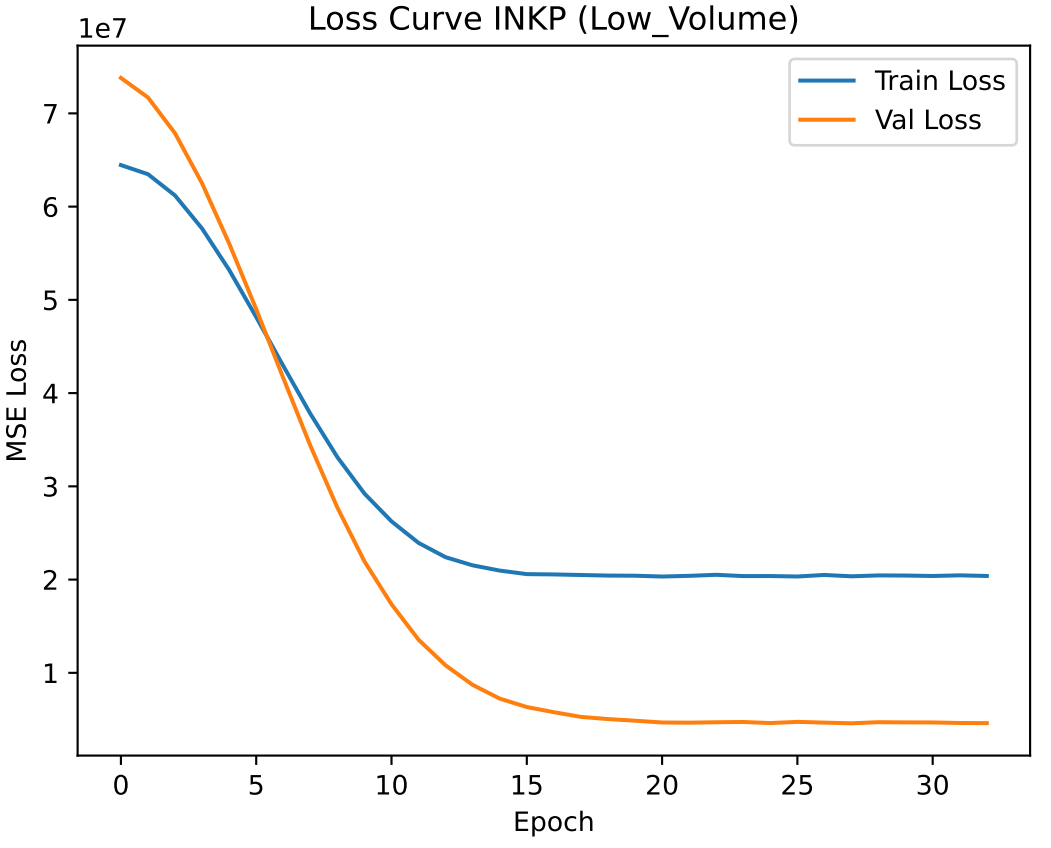

Loss Curve EXCL (Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

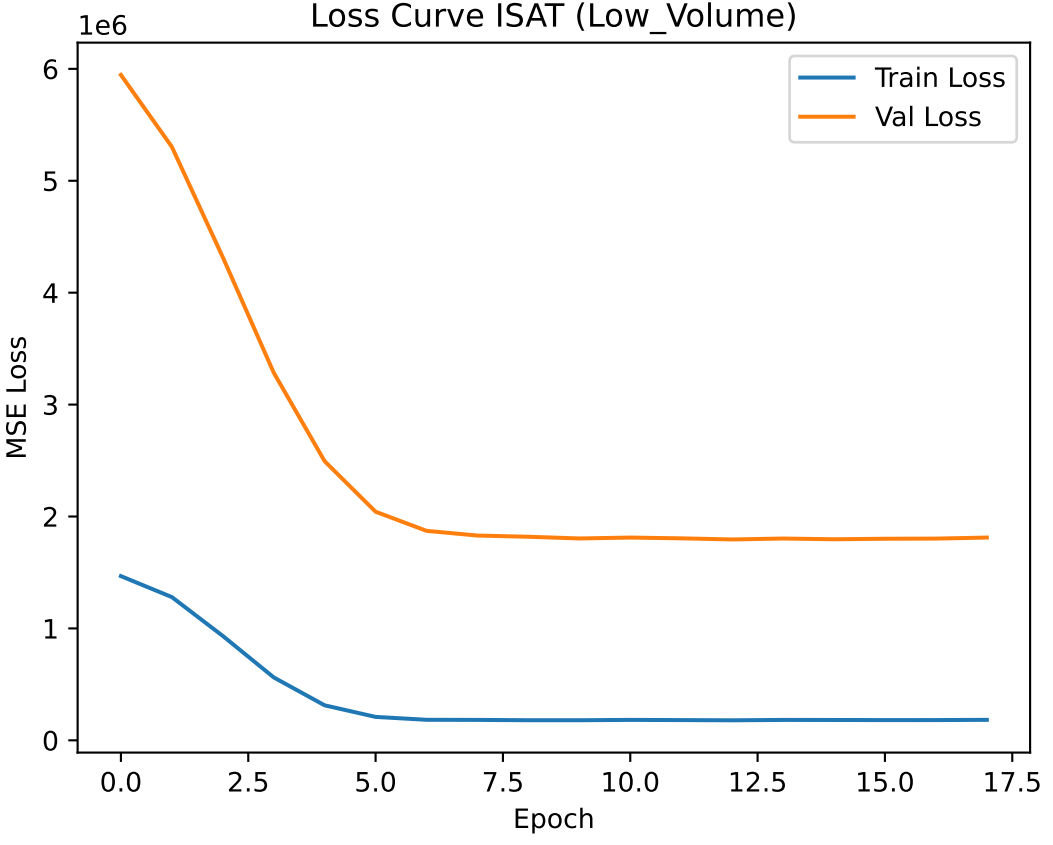

Loss Curve GOTO (Low_Volume)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

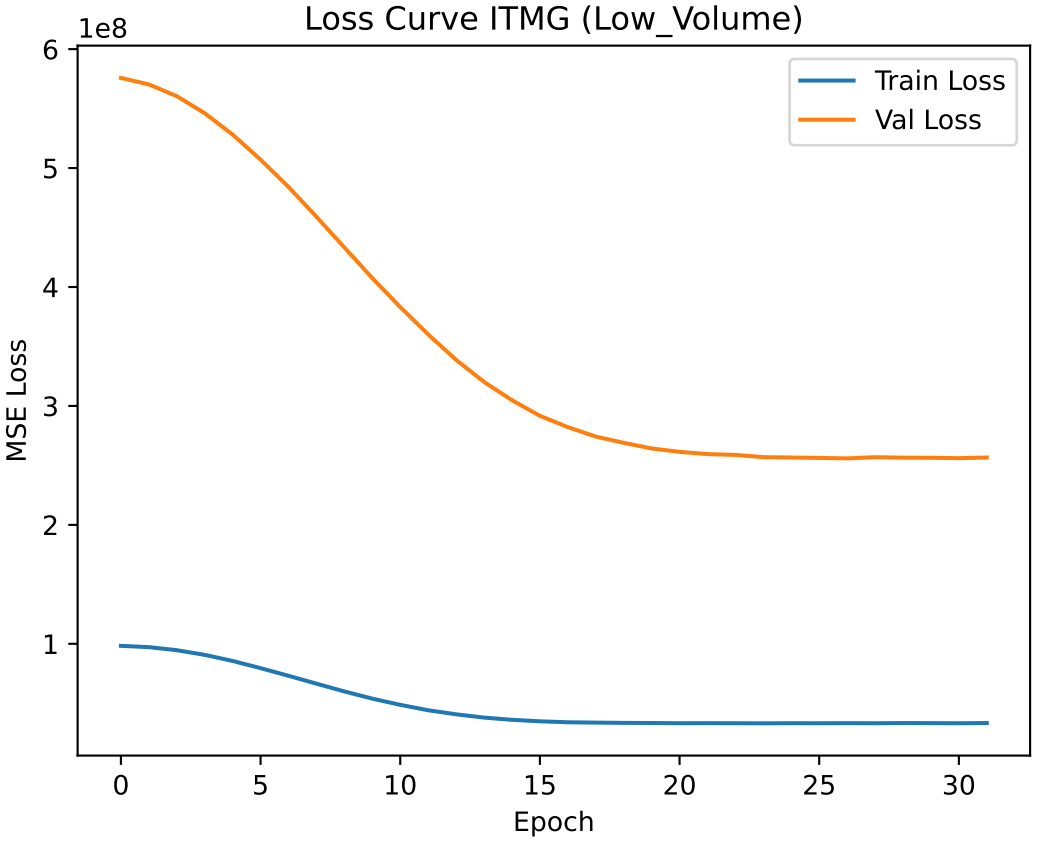

Loss Curve ICBP (Low_Volume)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch

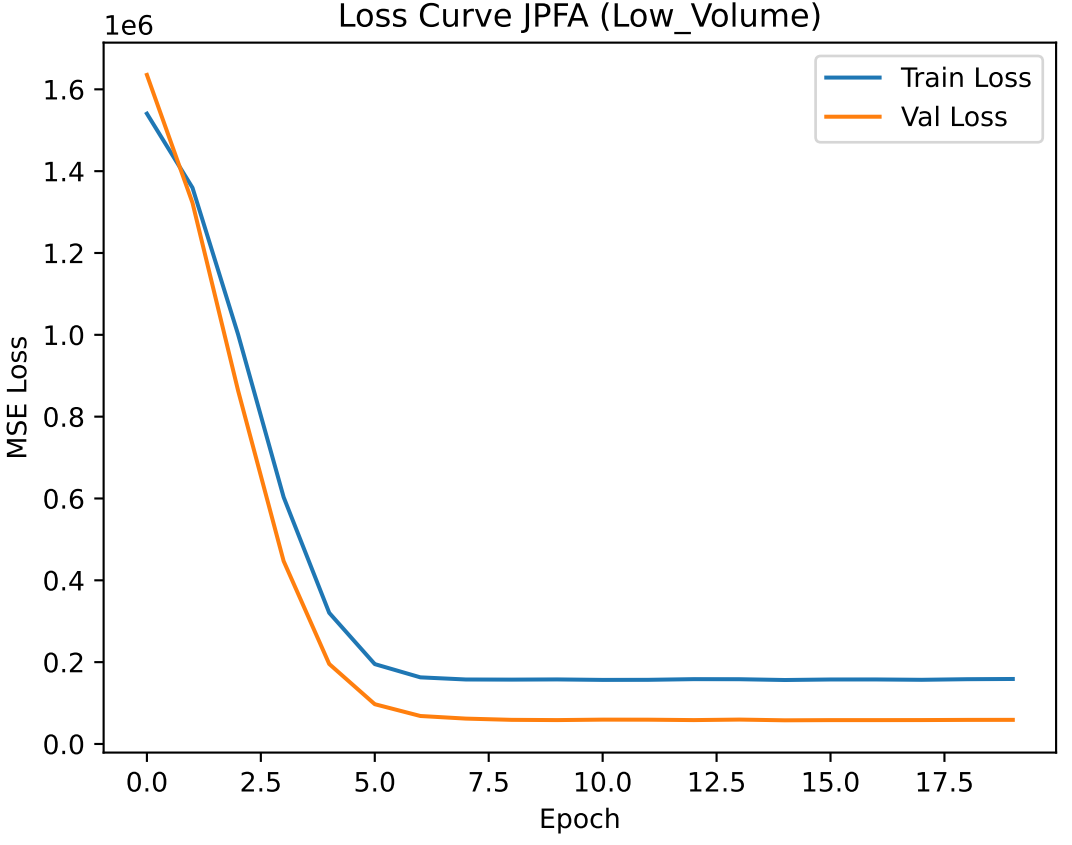

Loss Curve INCO (Low_Volume)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
Epoch

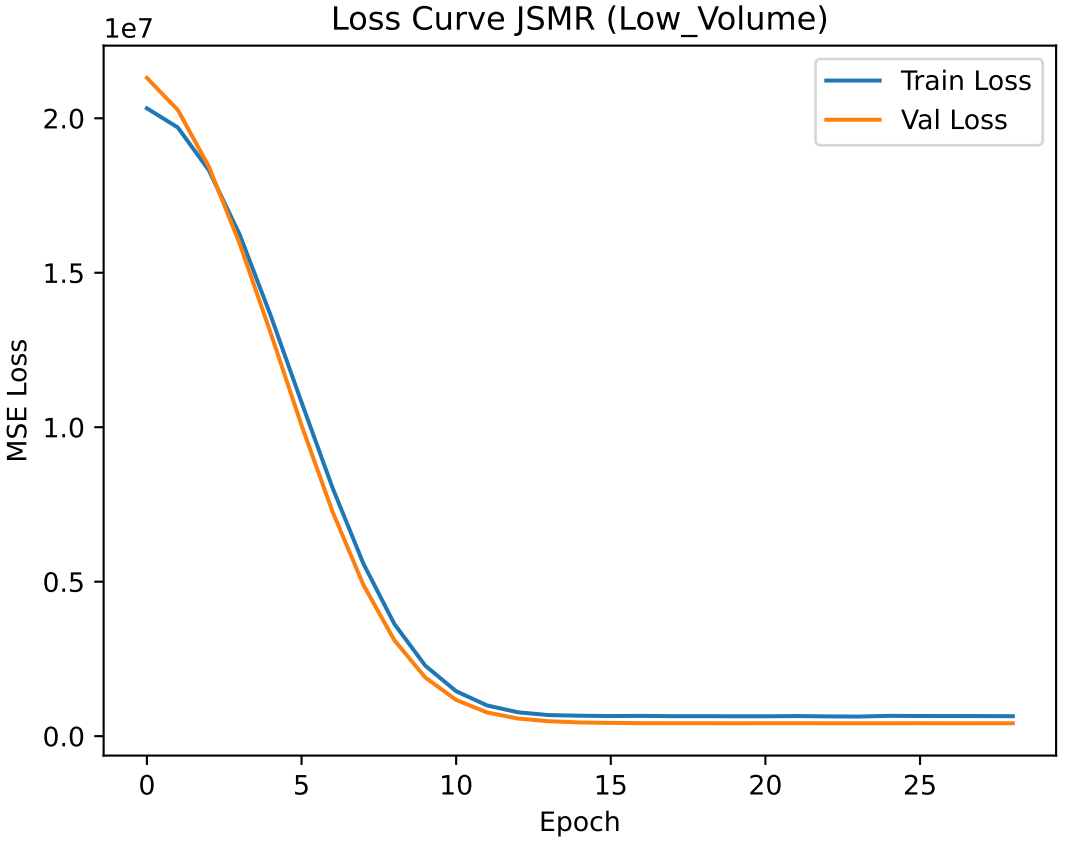

Loss Curve INDF (Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30

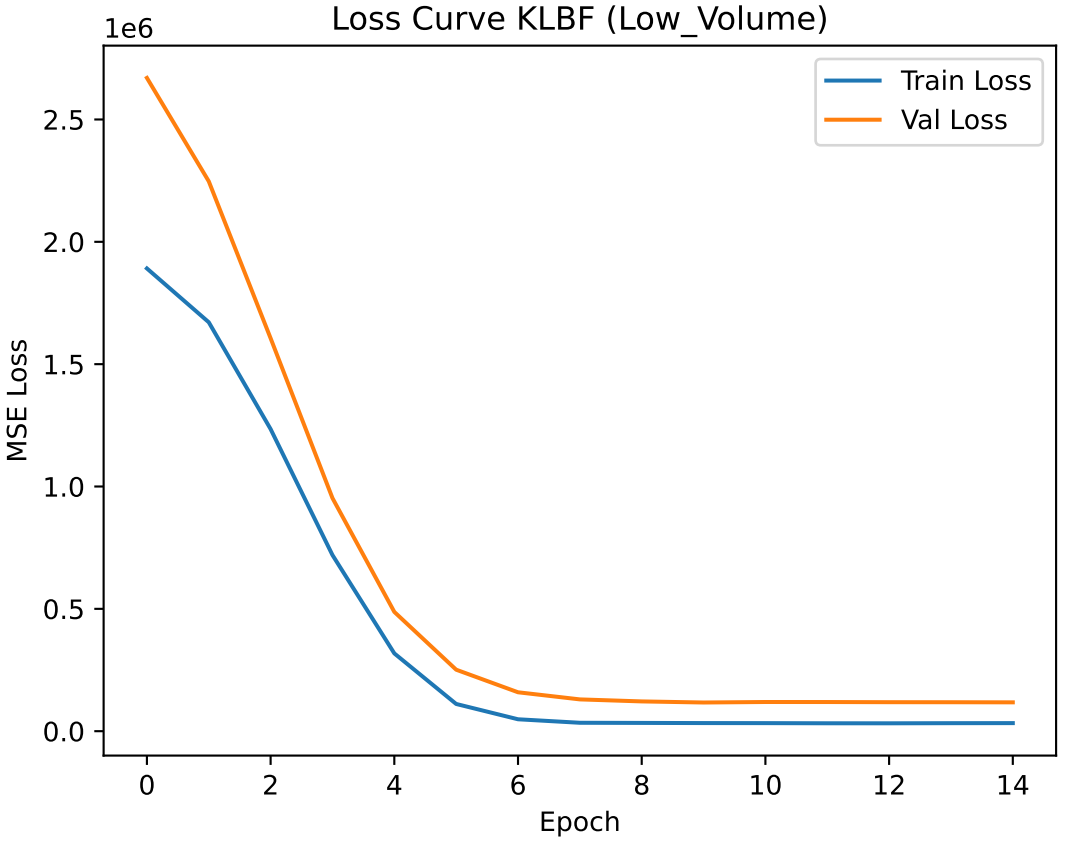

Loss Curve INKP (Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
1
2
3
4
5
6
7

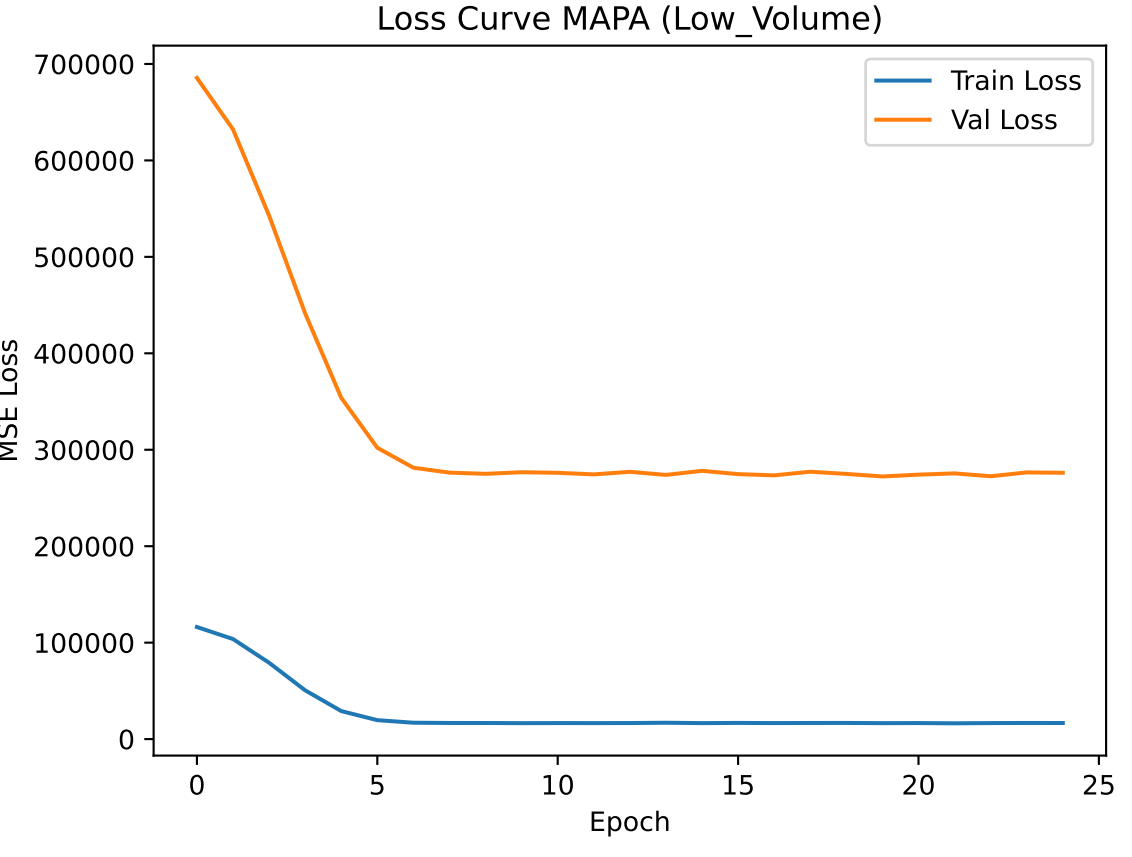

Loss Curve ISAT (Low_Volume)
1e6
6
5
4
3
2
1
0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

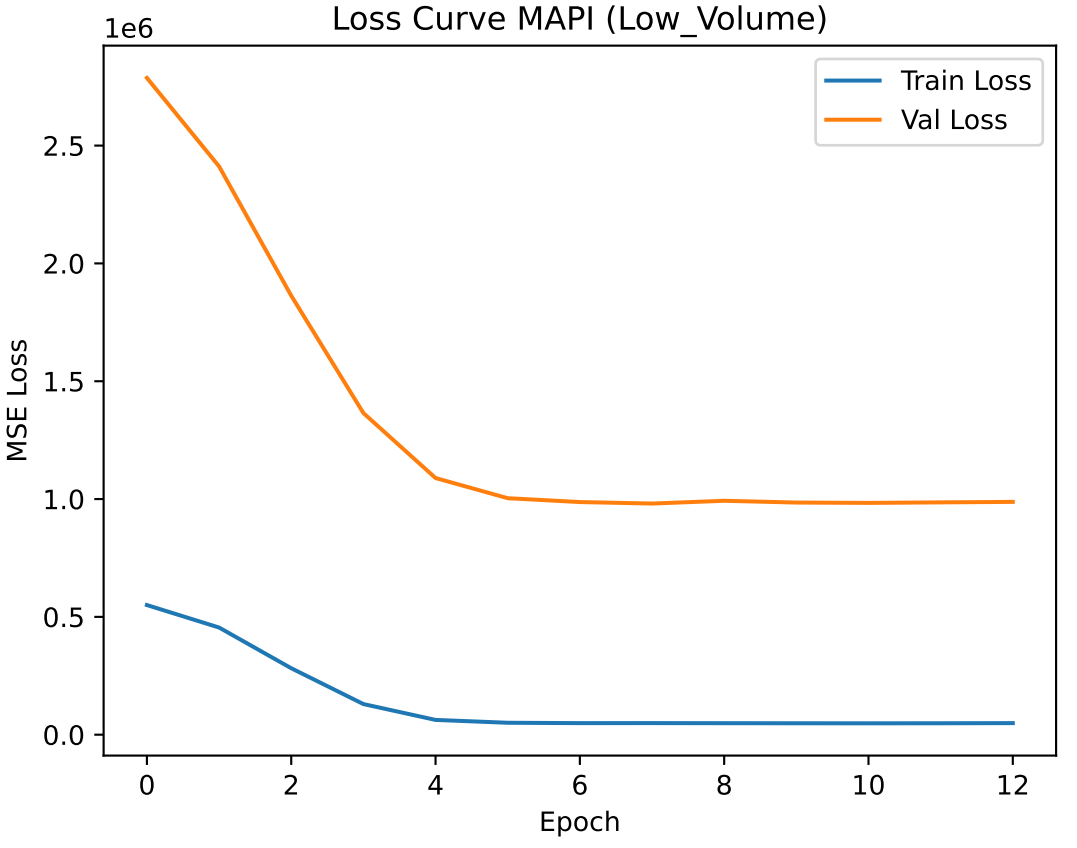

Loss Curve ITMG (Low_Volume)
1e8
6
5
4
3
2
1
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

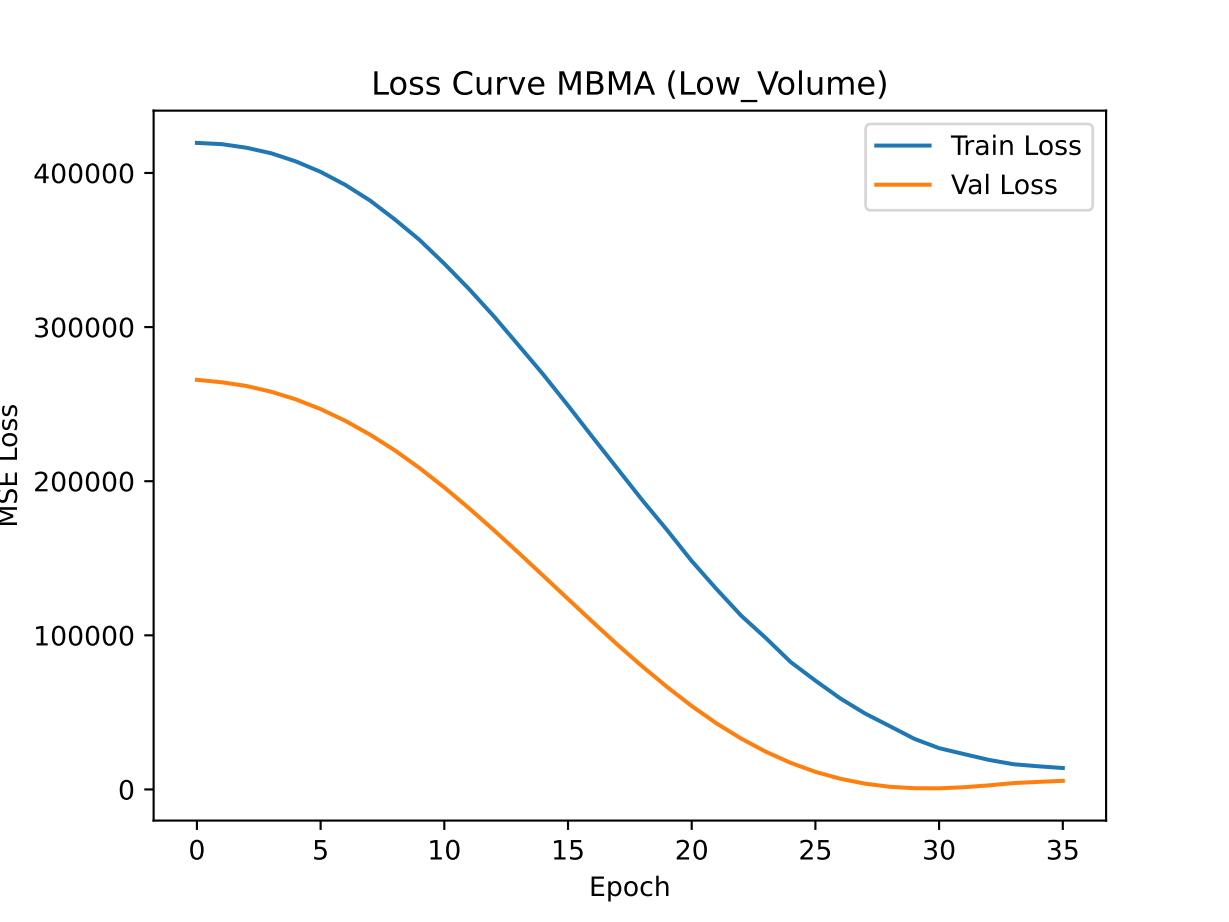

Loss Curve JPFA (Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

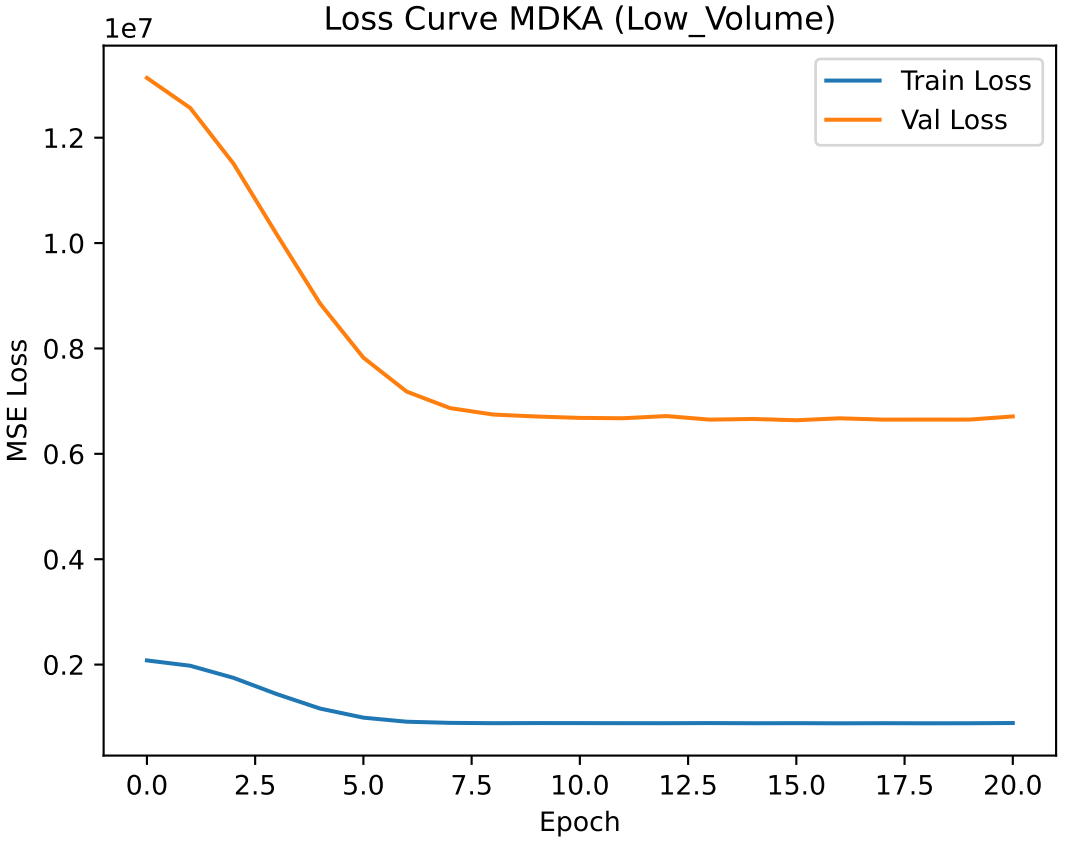

Loss Curve JSMR (Low_Volume)
1e7
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
5
10
15
20
25
Epoch
Train Loss
Val Loss

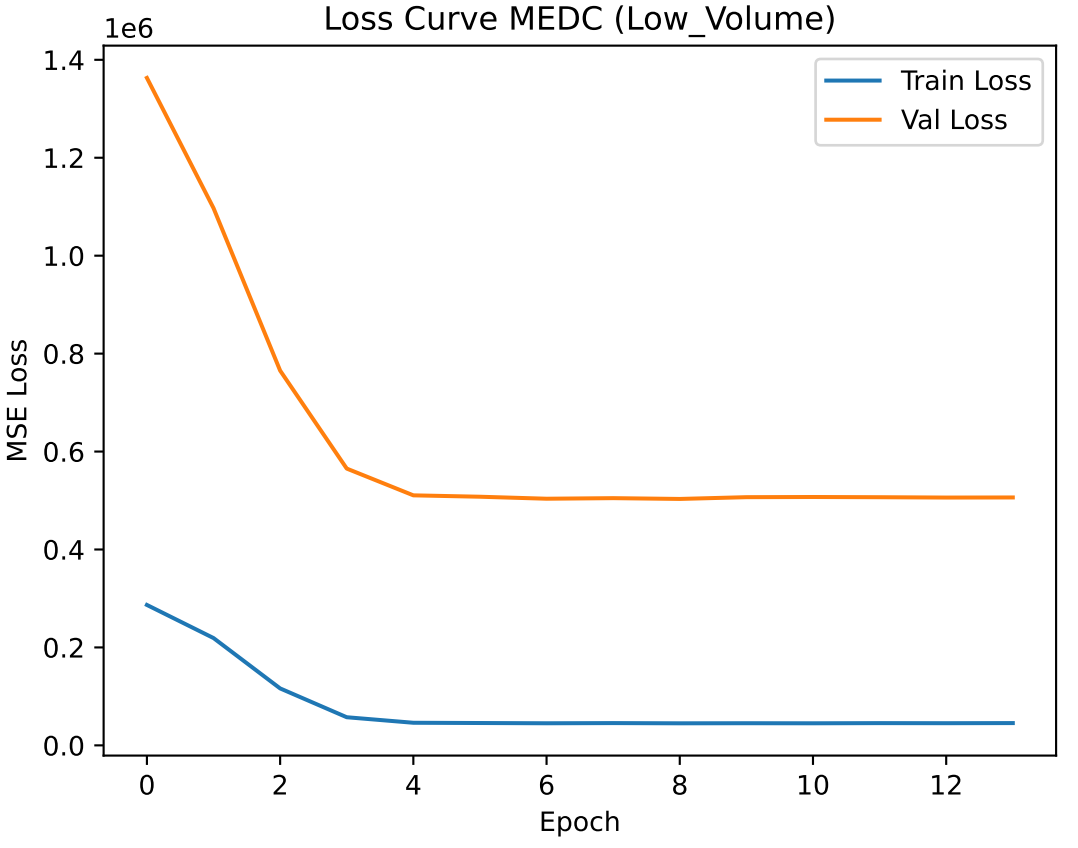

Loss Curve KLBF (Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

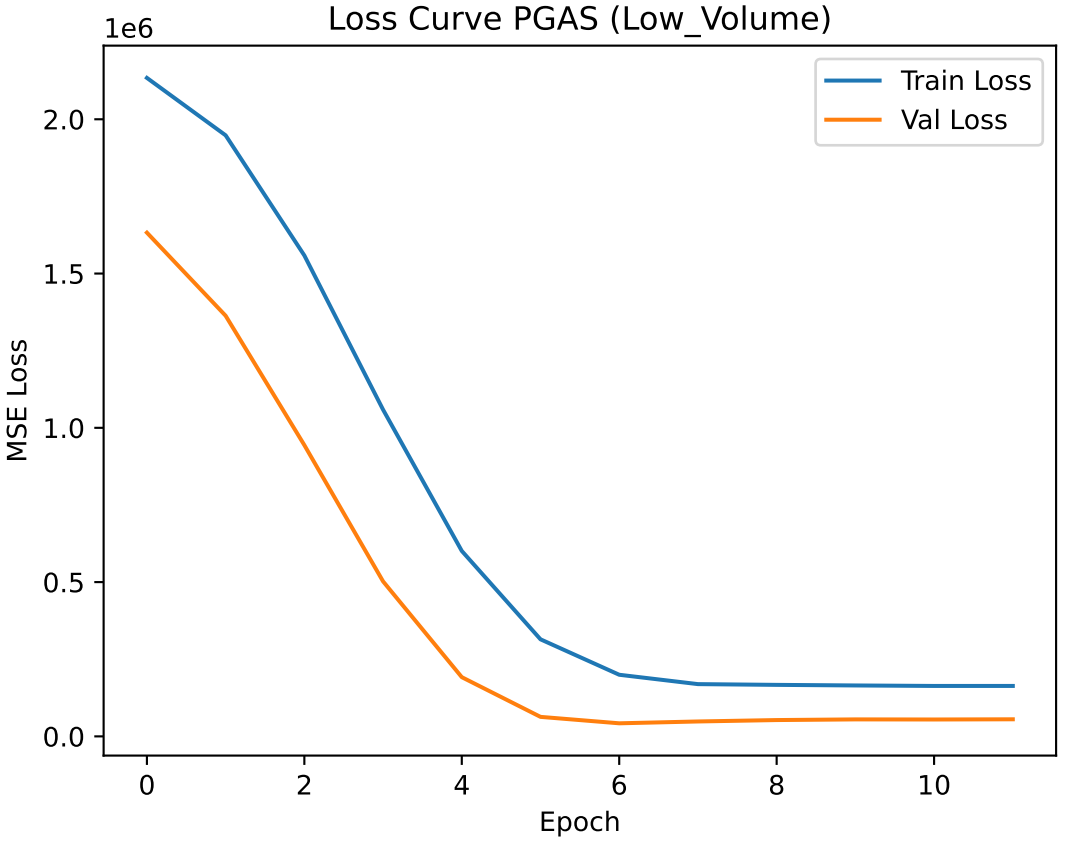

Loss Curve MAPA (Low_Volume)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
5
10
15
20
25

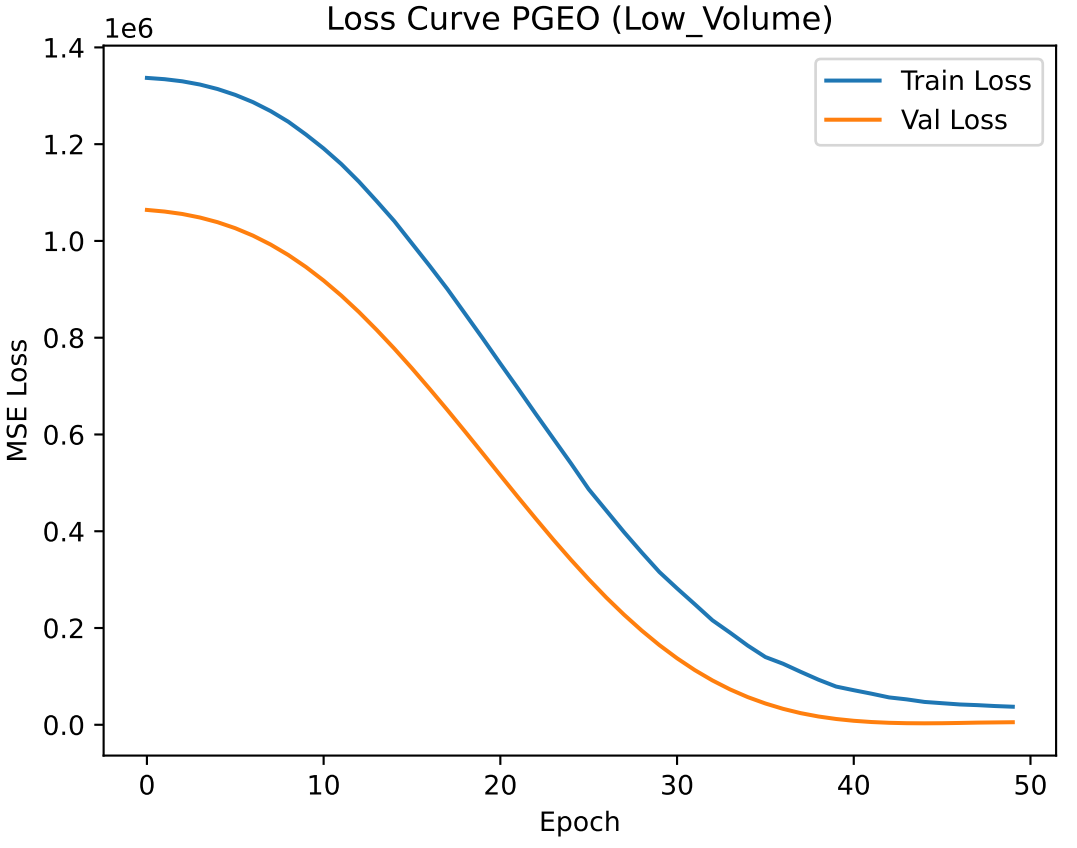

Loss Curve MAPI (Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch

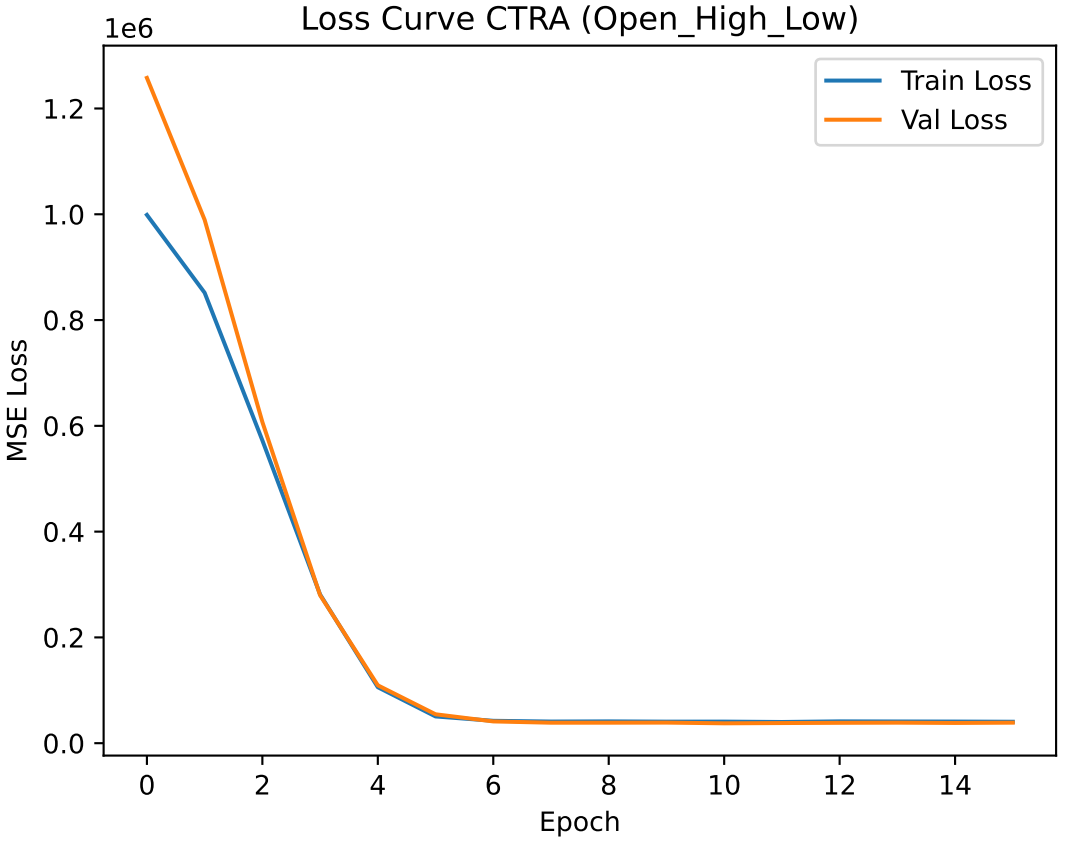

Loss Curve MBMA (Low_Volume)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

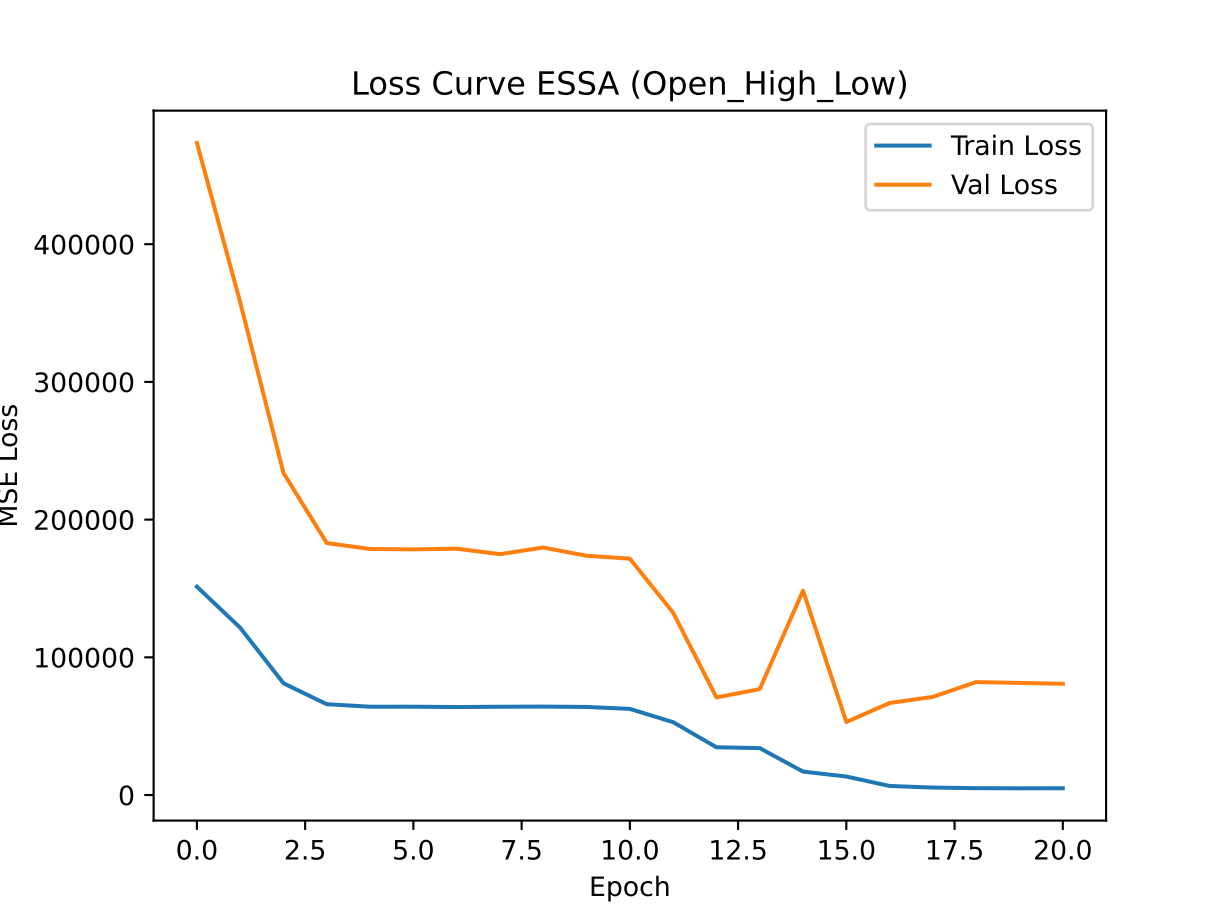

Loss Curve MDKA (Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

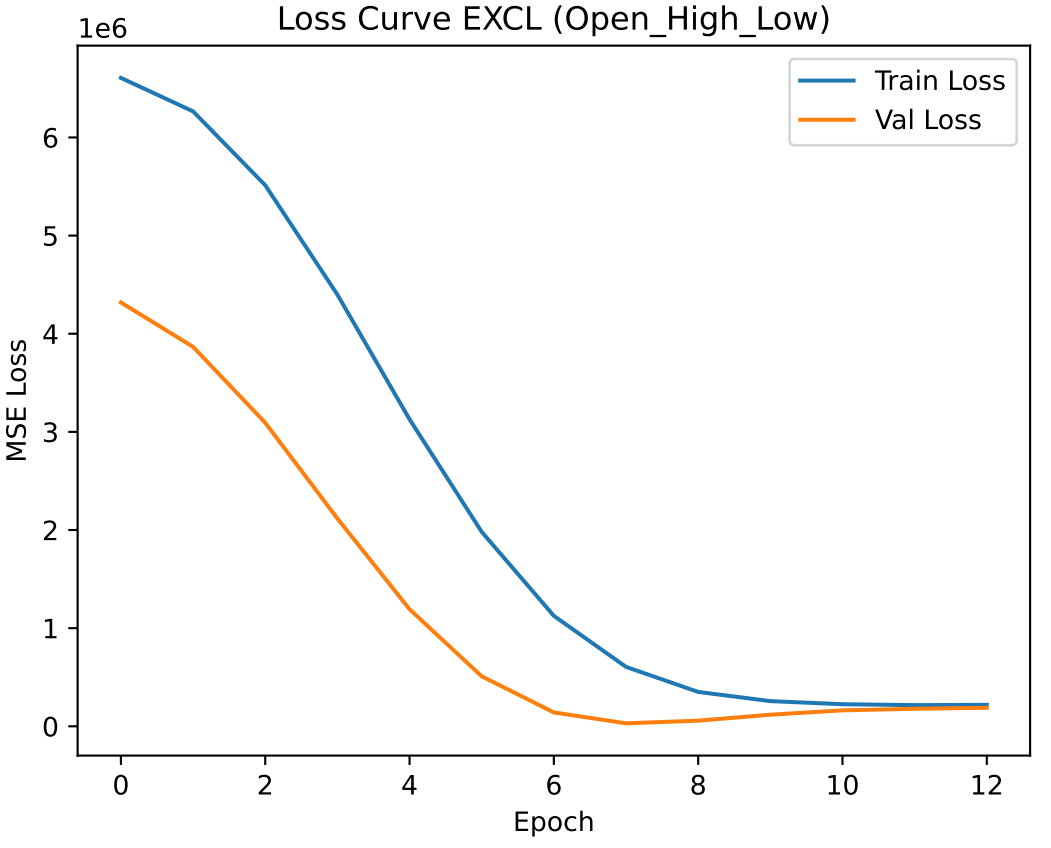

Loss Curve MEDC (Low_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
Epoch

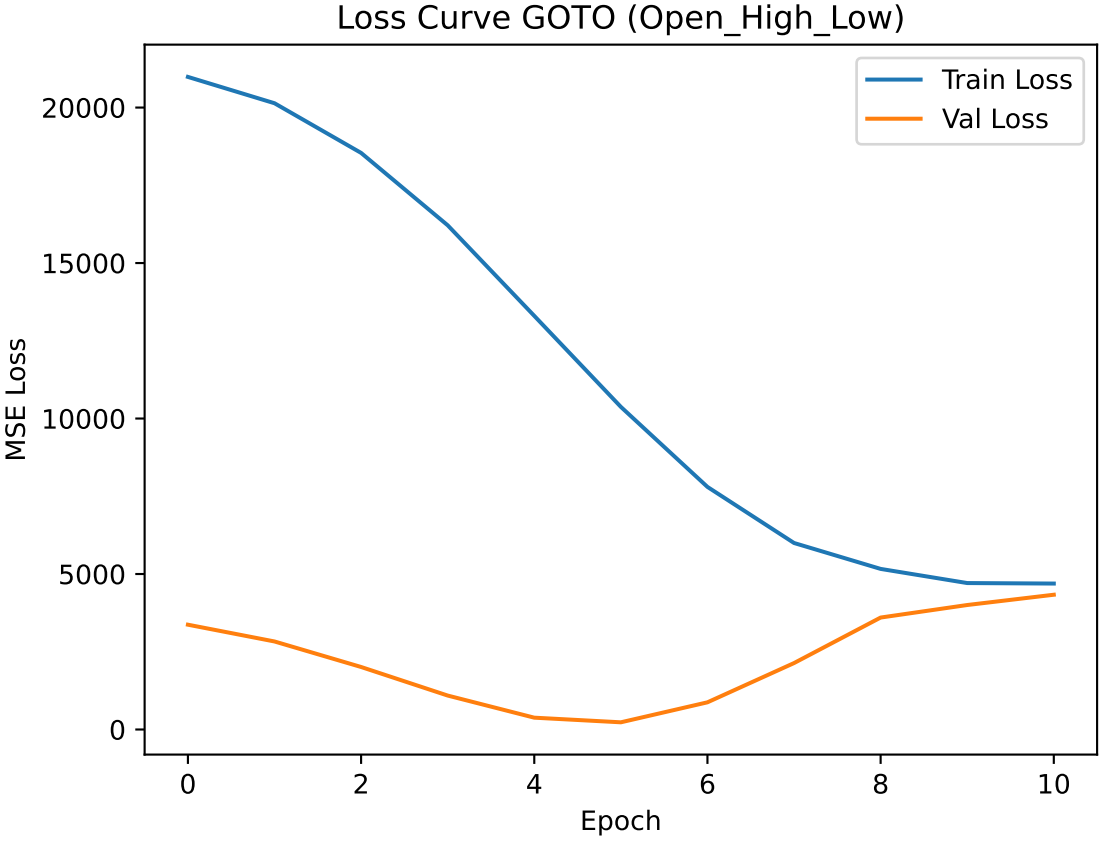

Loss Curve PGAS (Low_Volume)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
Epoch
Train Loss
Val Loss

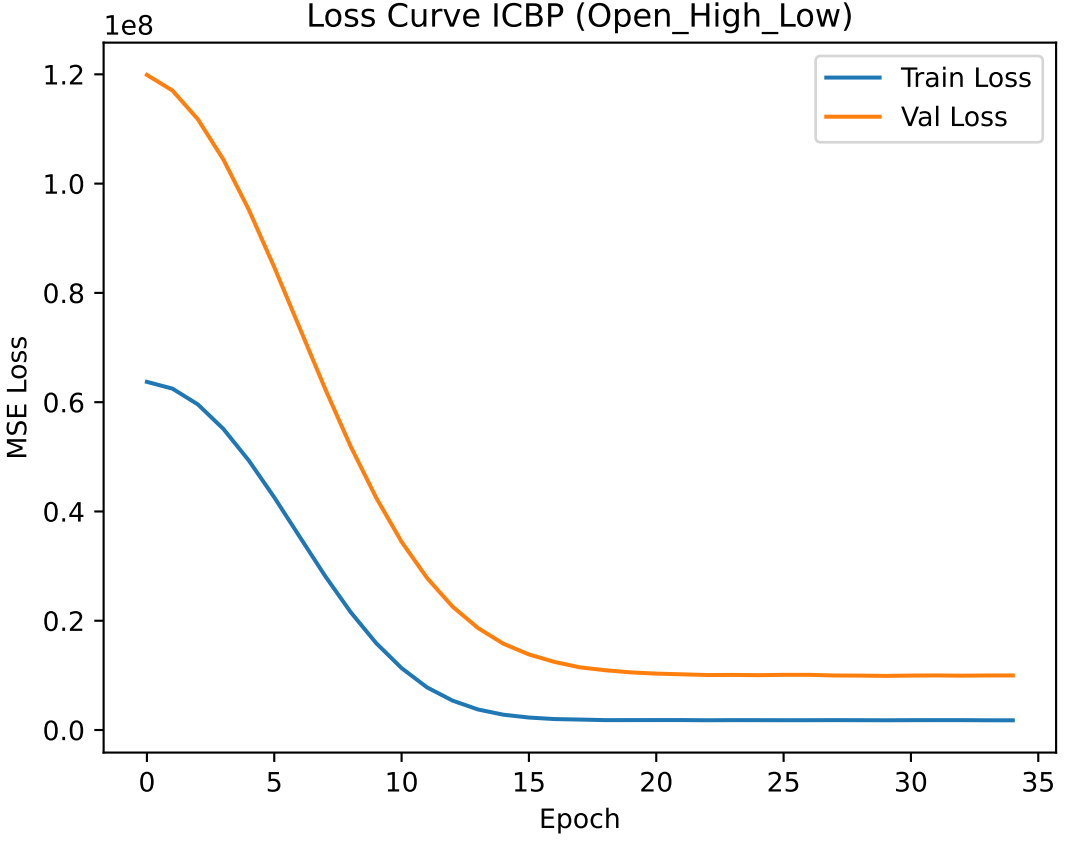

Loss Curve PGEO (Low_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

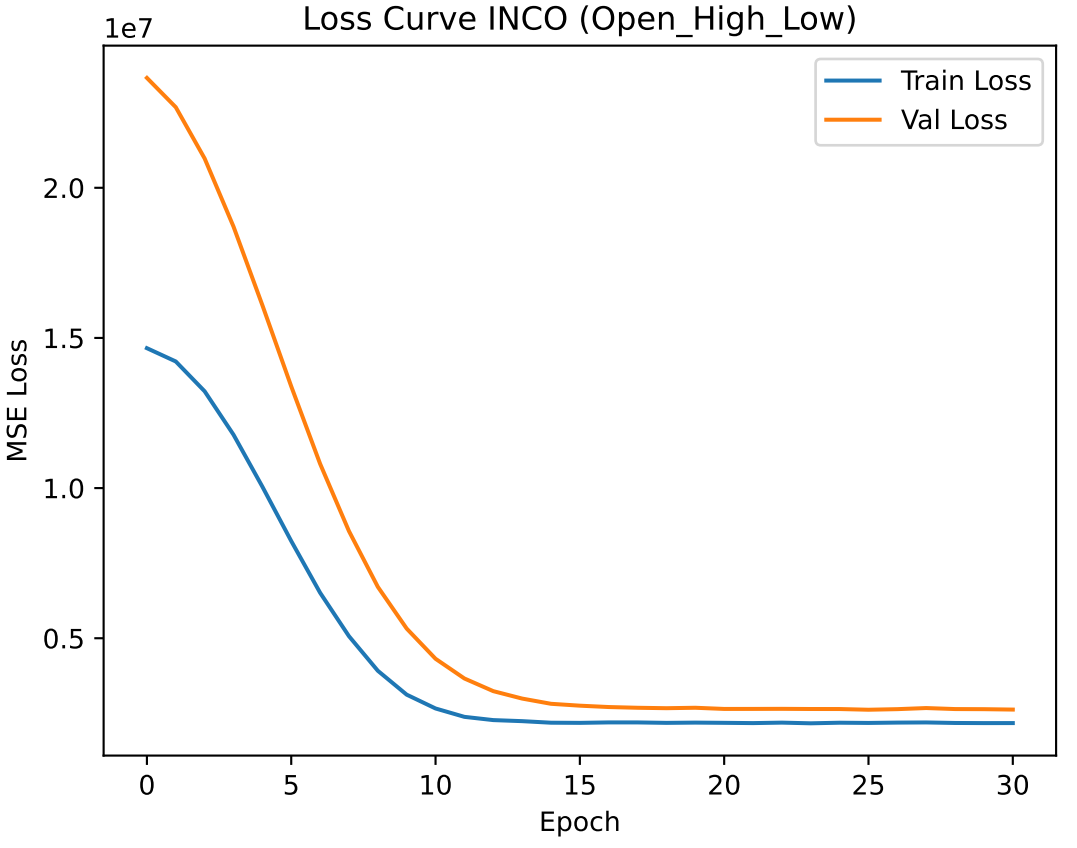

Loss Curve CTRA (Open_High_Low)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12
14

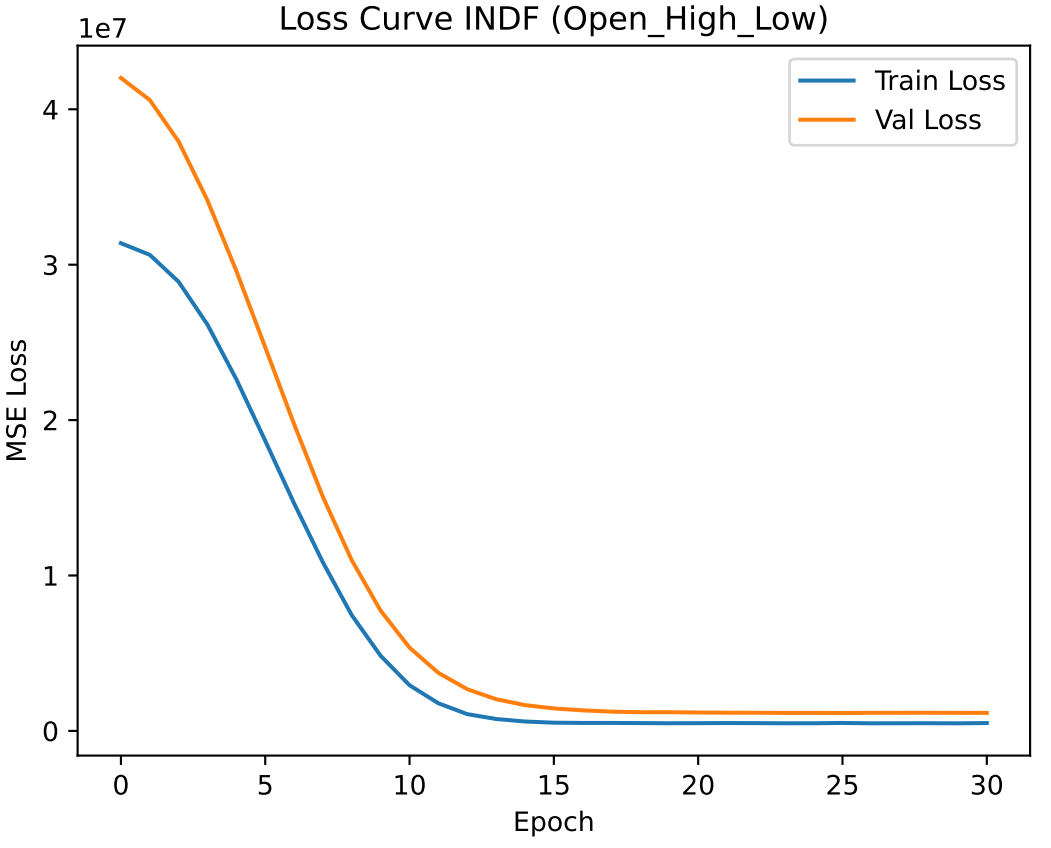

Loss Curve ESSA (Open_High_Low)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

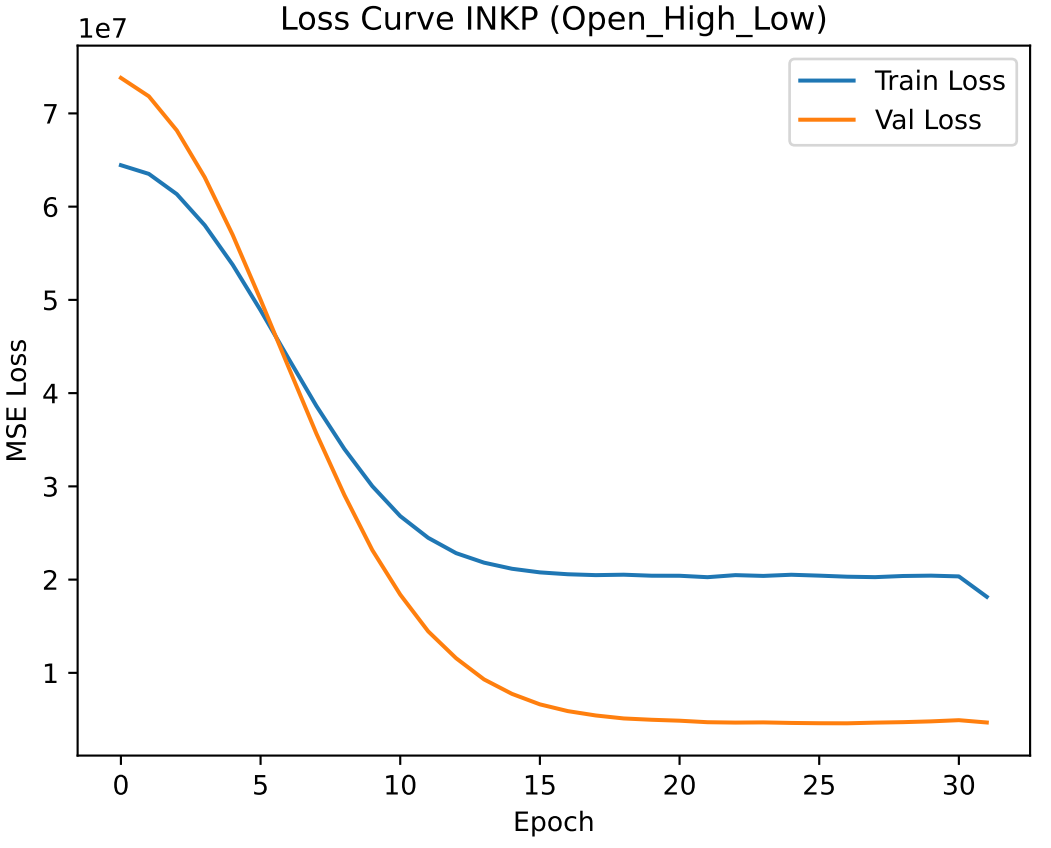

Loss Curve EXCL (Open_High_Low)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

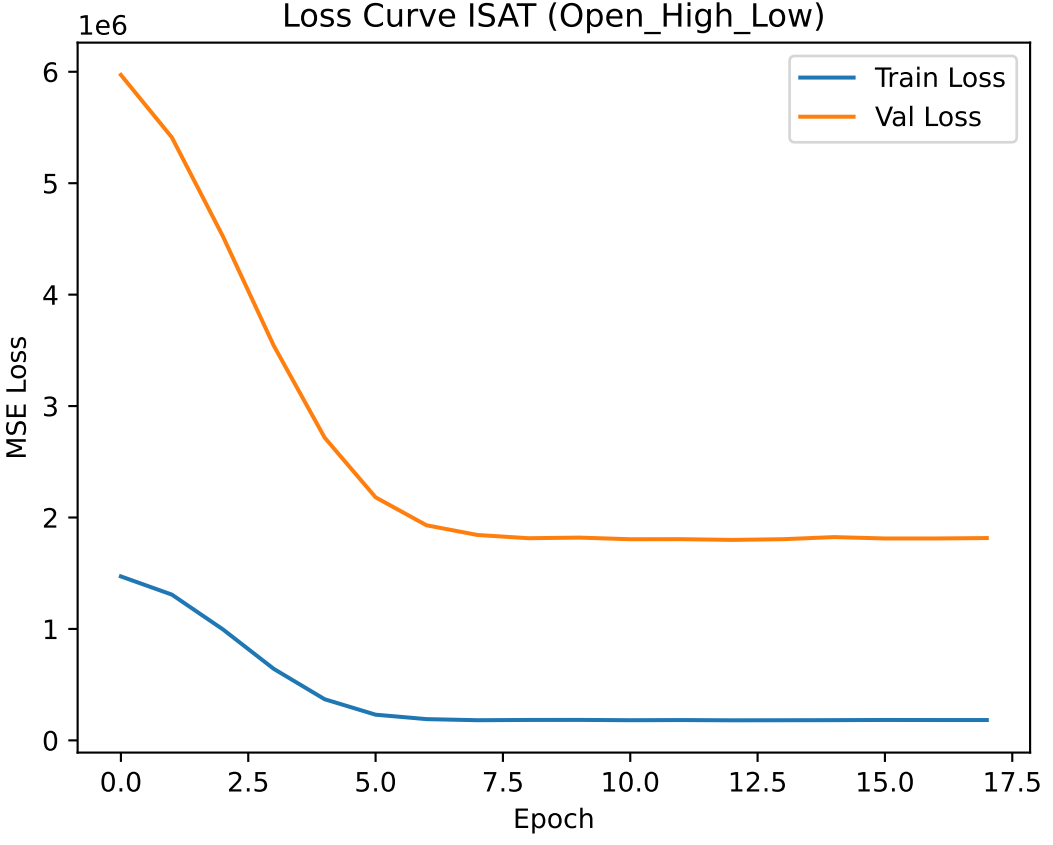

Loss Curve GOTO (Open_High_Low)
Train Loss
Val Loss
MSE Loss
Epoch
20000
15000
10000
5000
0
0
2
4
6
8
10

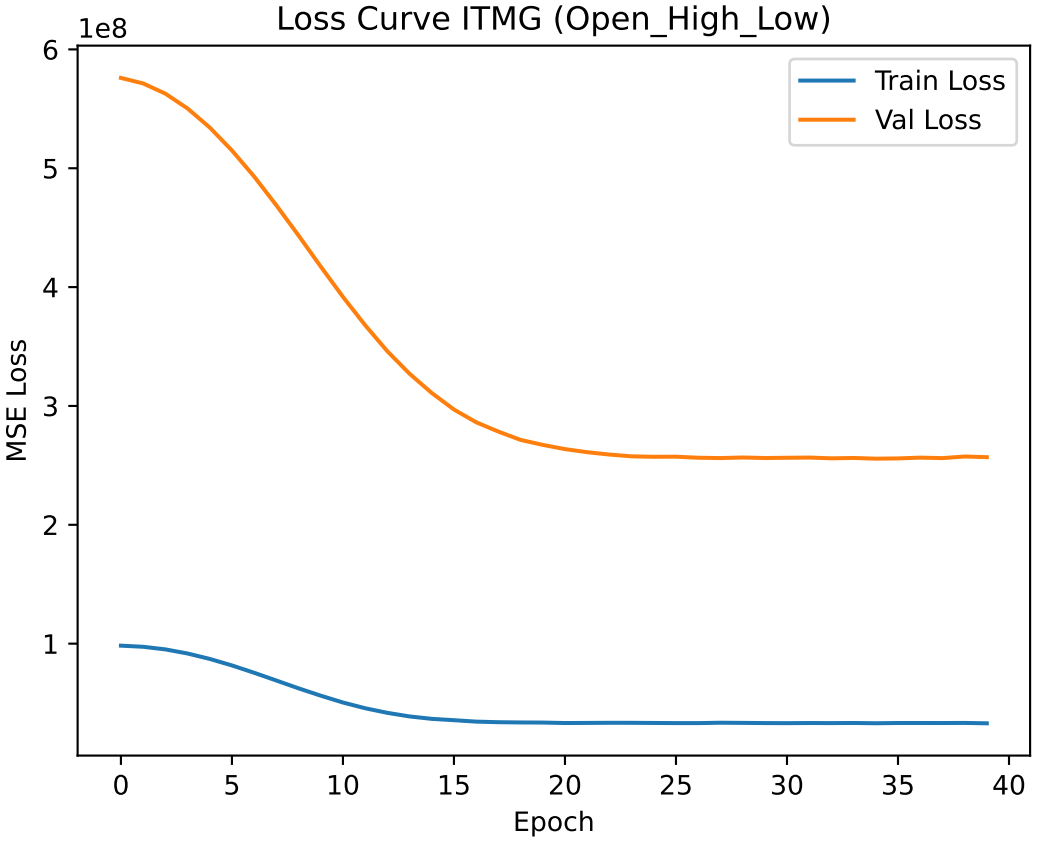

Loss Curve ICBP (Open_High_Low)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

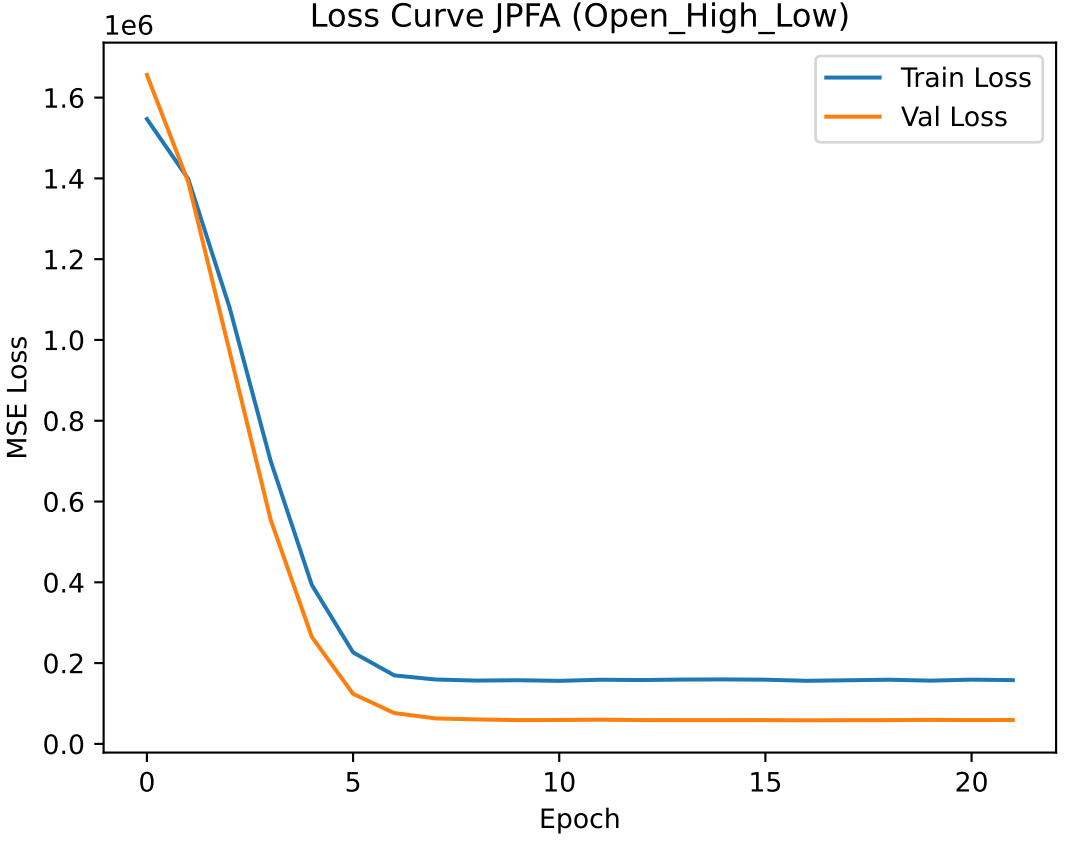

Loss Curve INCO (Open_High_Low)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
30
Epoch

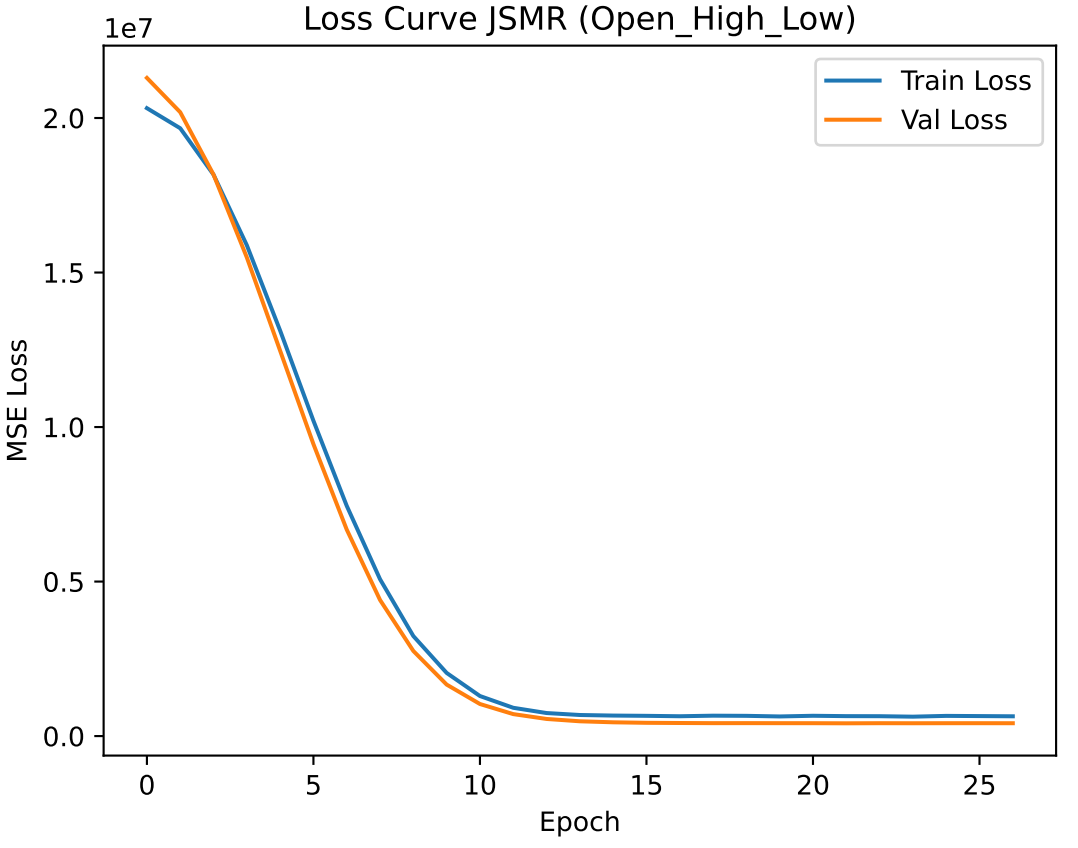

Loss Curve INDF (Open_High_Low)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30

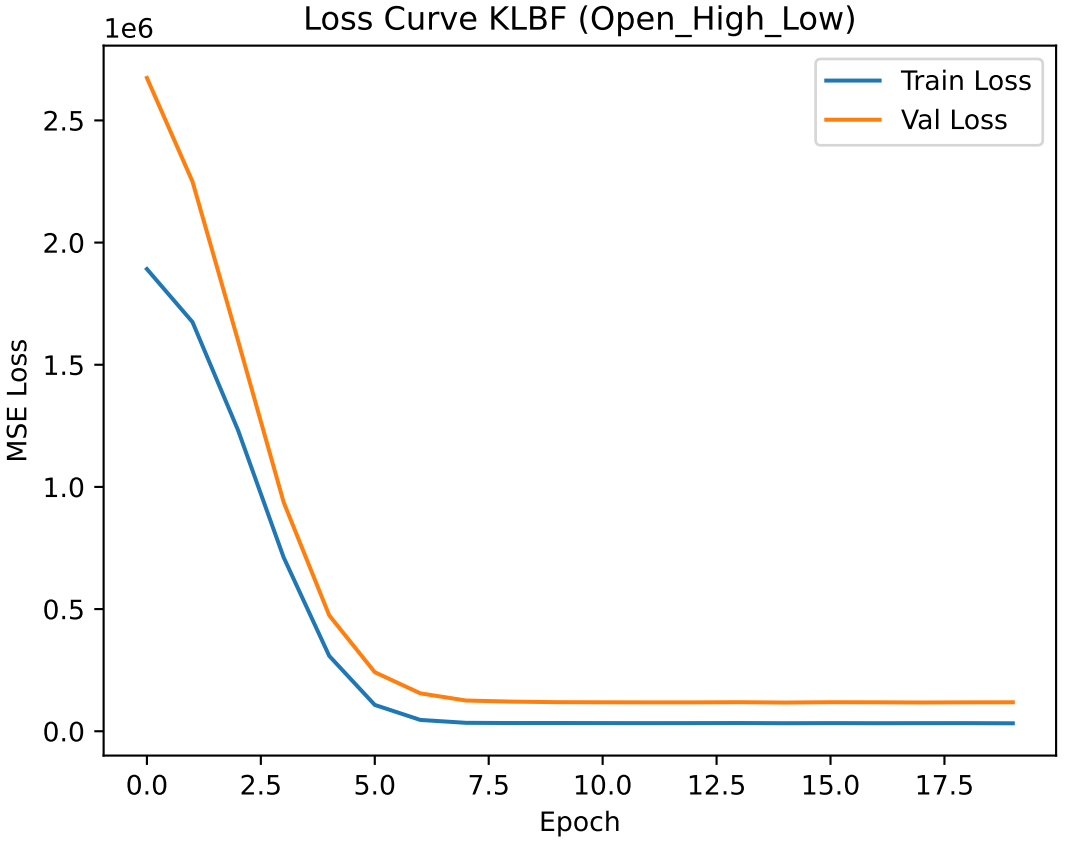

Loss Curve INKP (Open_High_Low)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
1
2
3
4
5
6
7

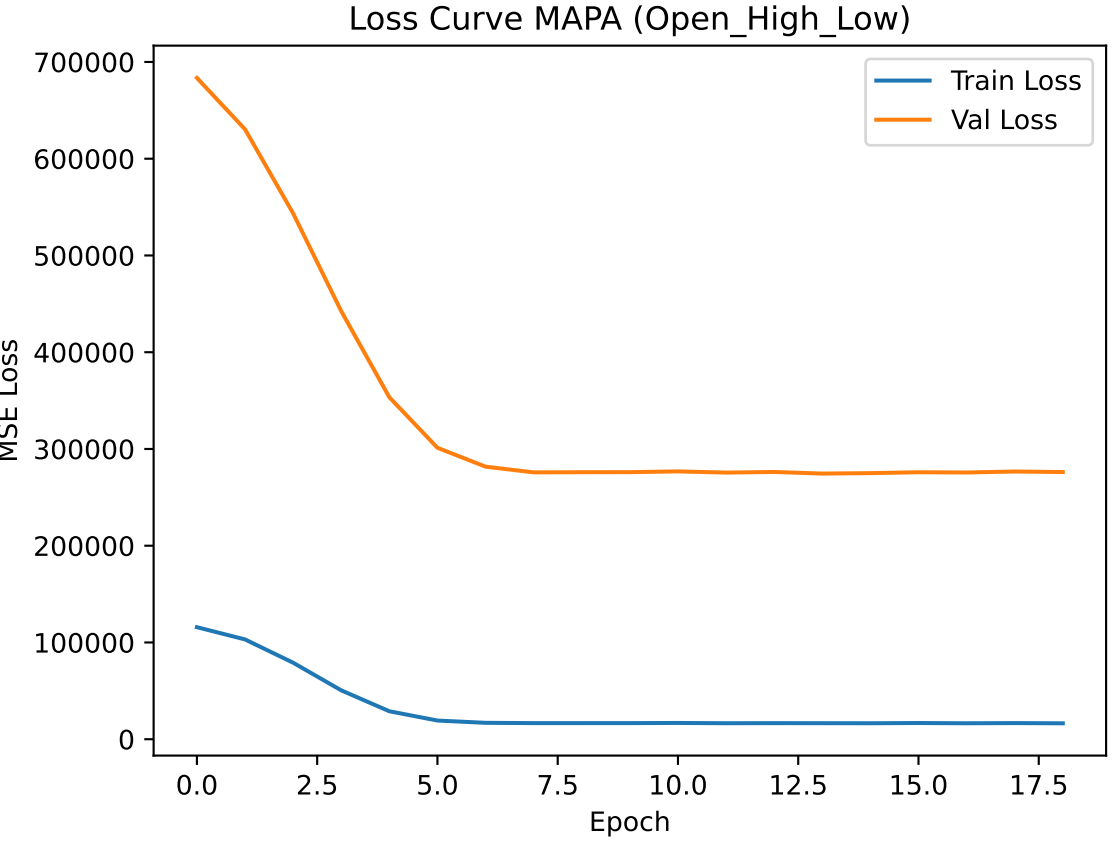

Loss Curve ISAT (Open_High_Low)
1e6
6
5
4
3
2
1
0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

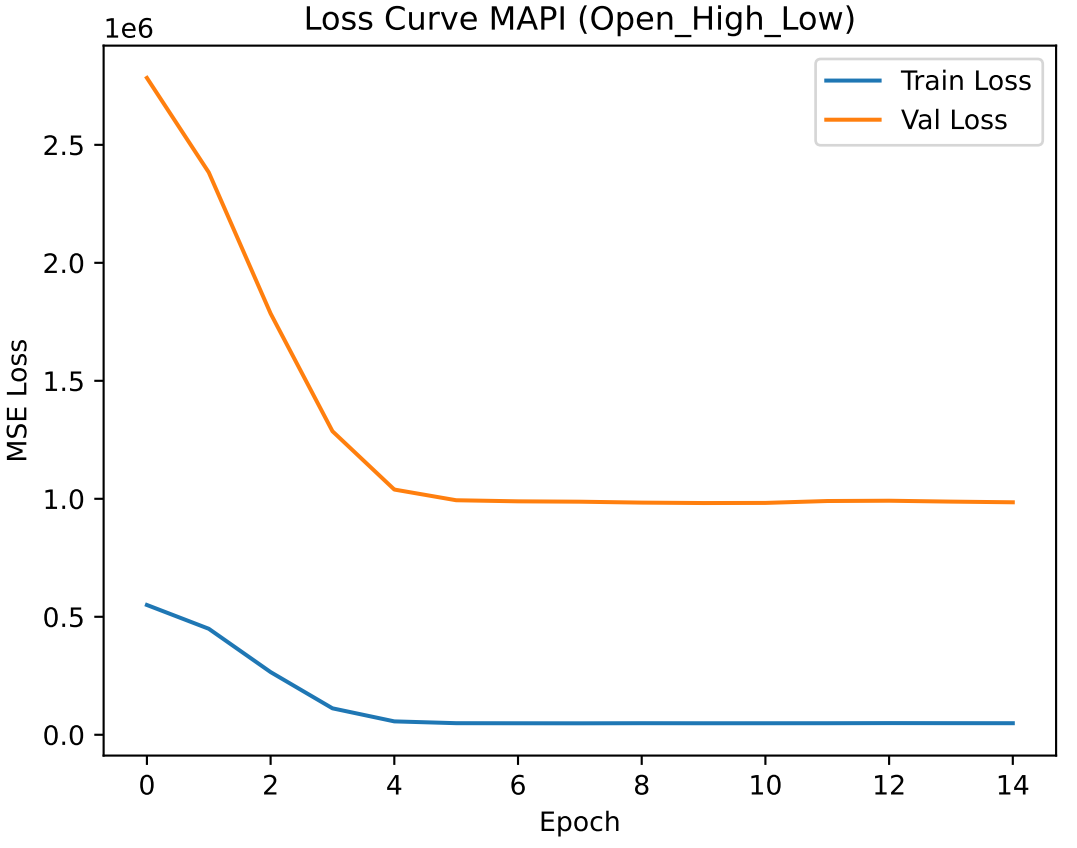

Loss Curve ITMG (Open_High_Low)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
40
Epoch

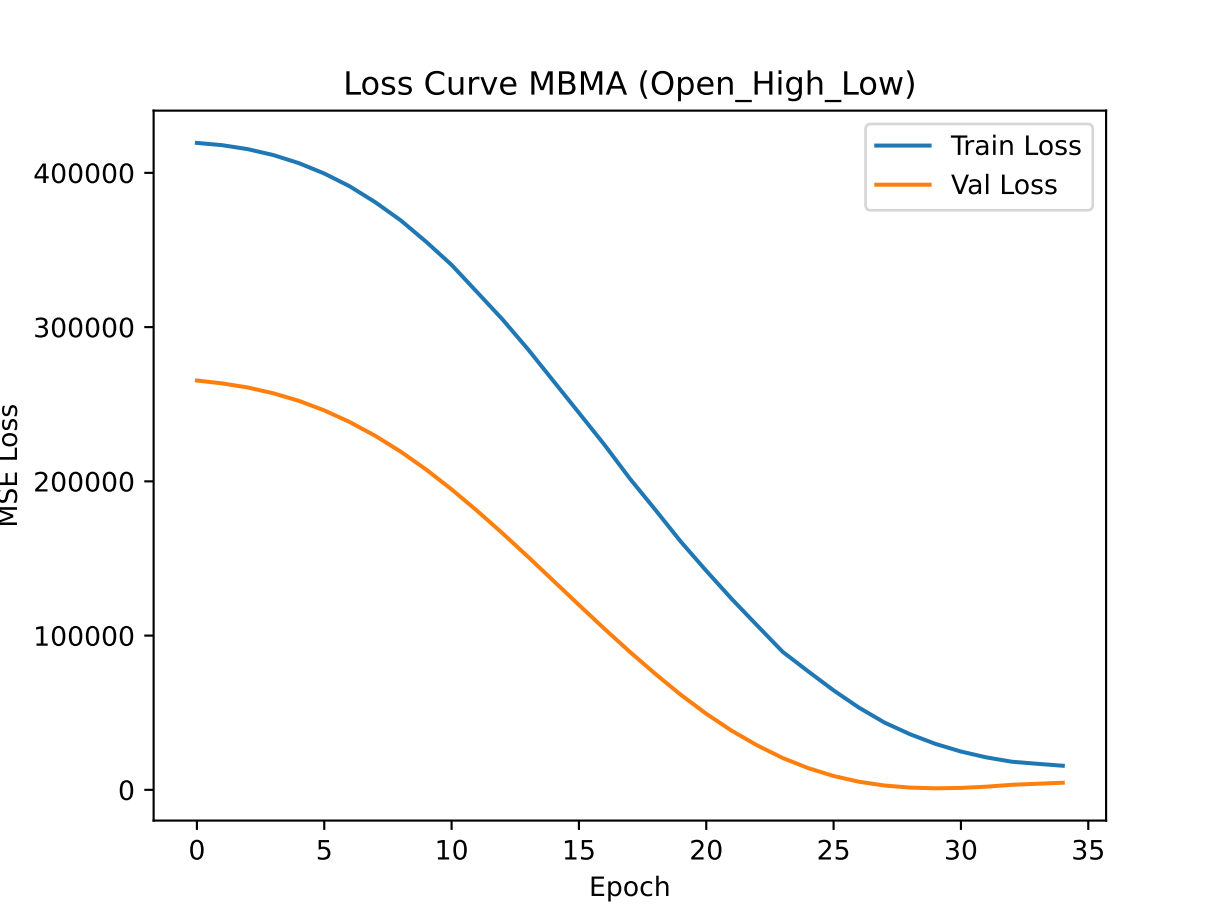

Loss Curve JPFA (Open_High_Low)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
5
10
15
20

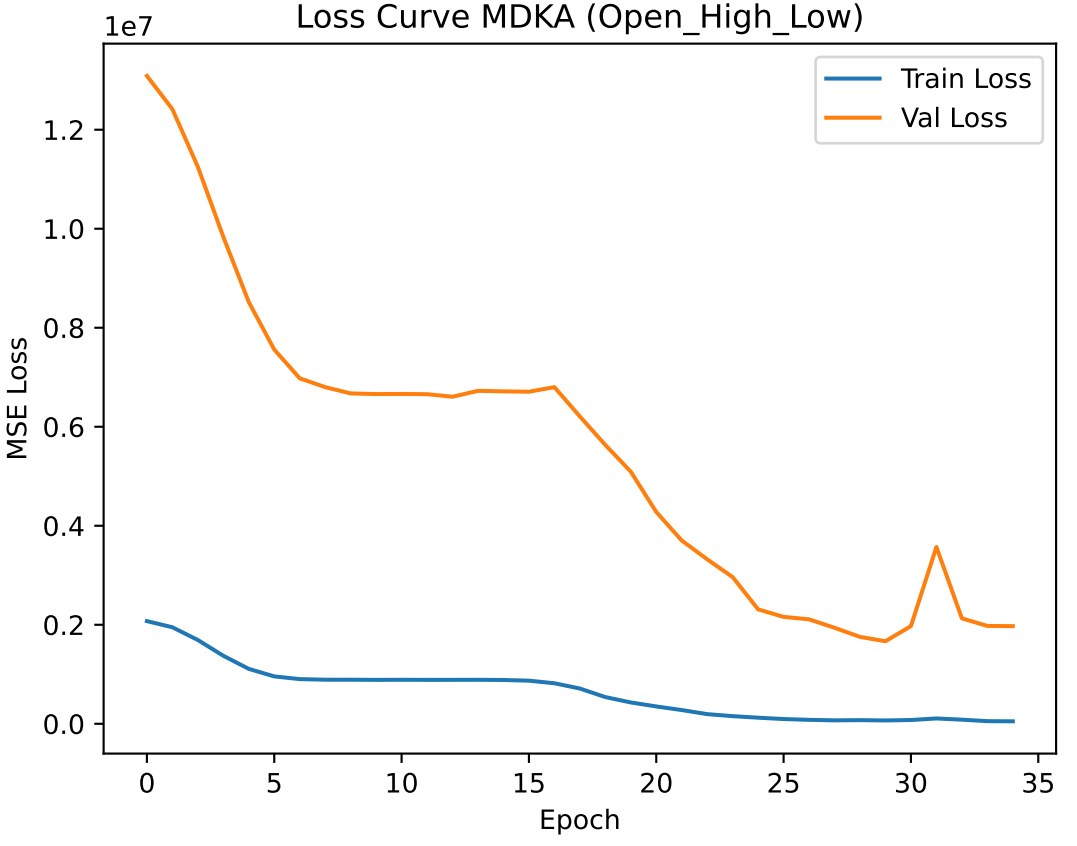

Loss Curve JSMR (Open_High_Low)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

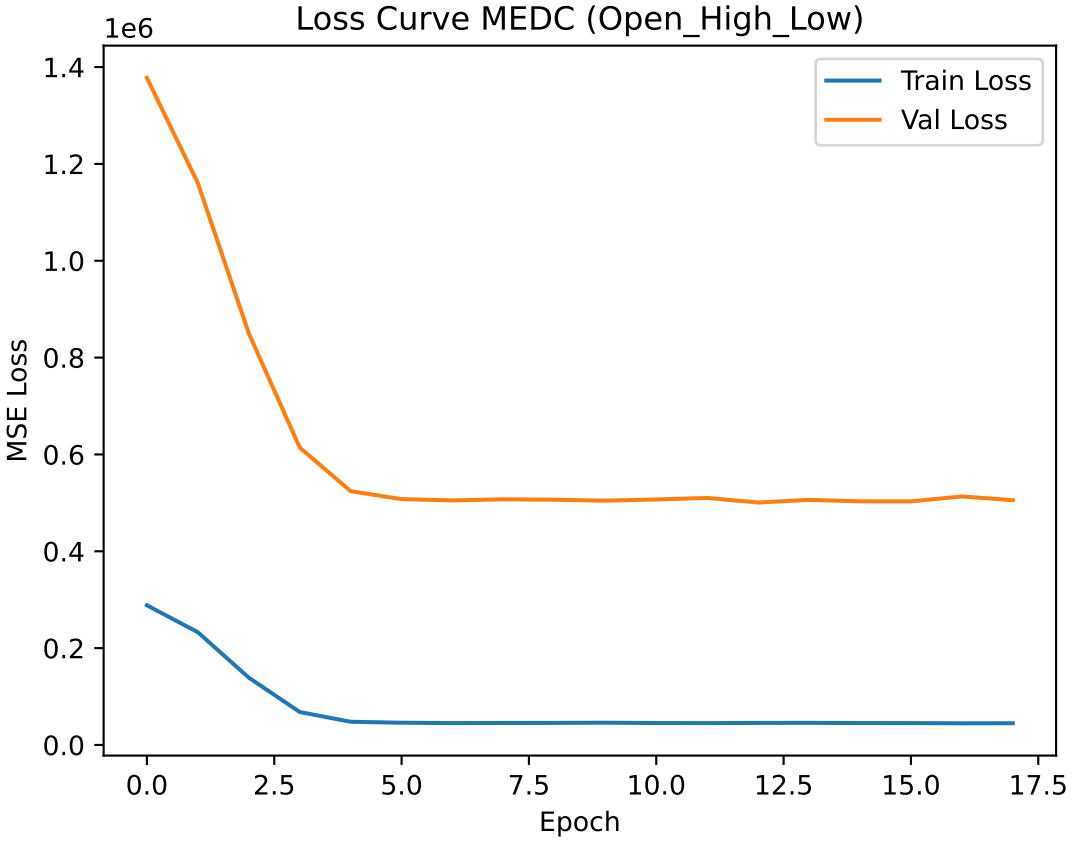

Loss Curve KLBF (Open_High_Low)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

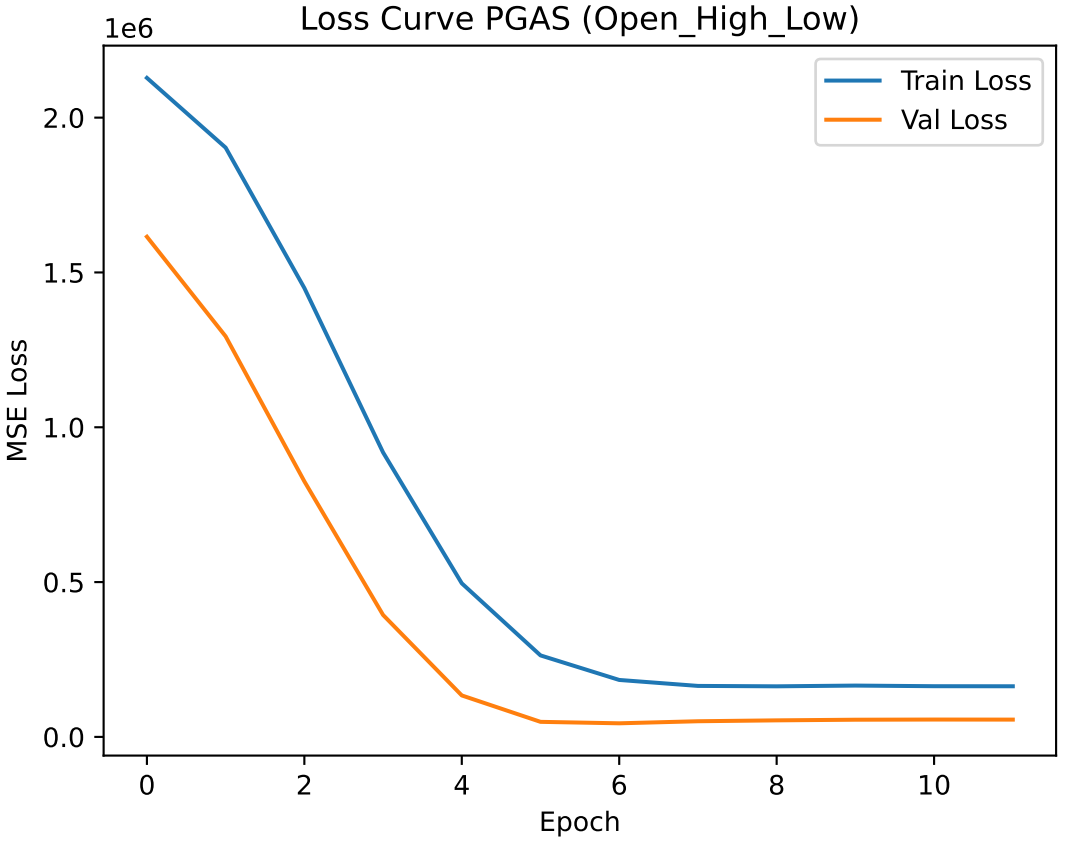

Loss Curve MAPA (Open_High_Low)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

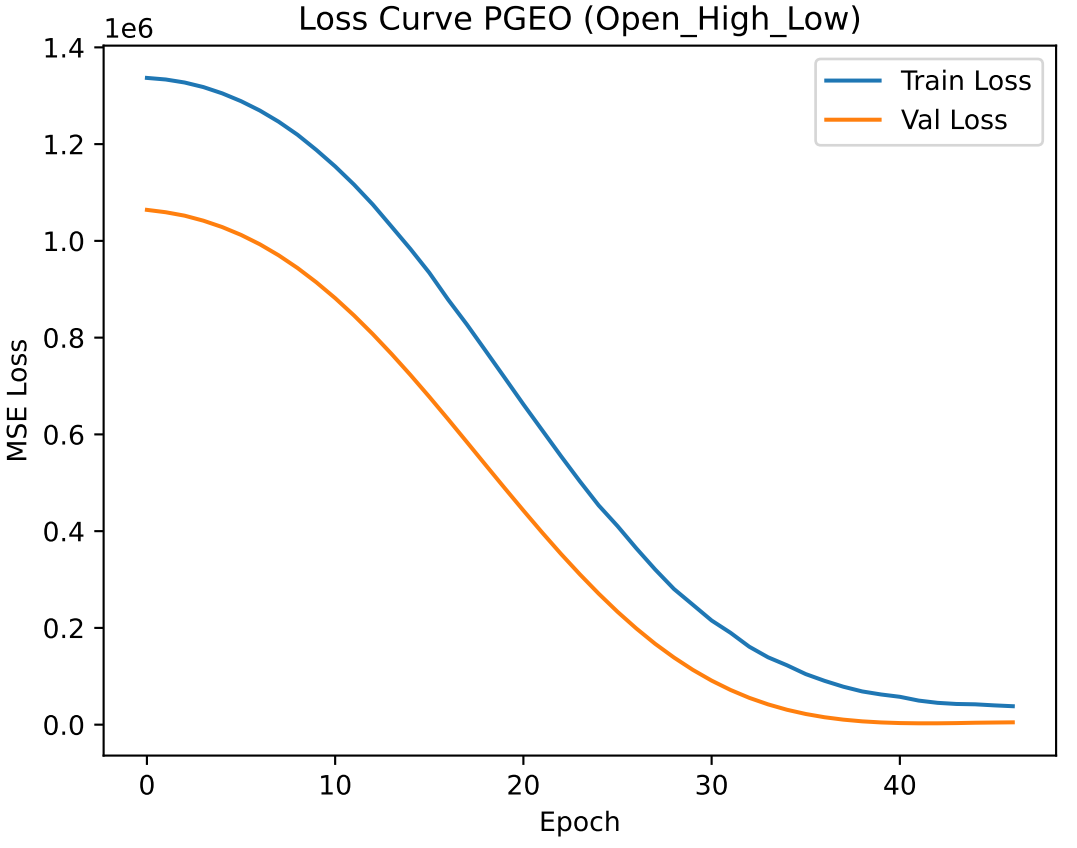

Loss Curve MAPI (Open_High_Low)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

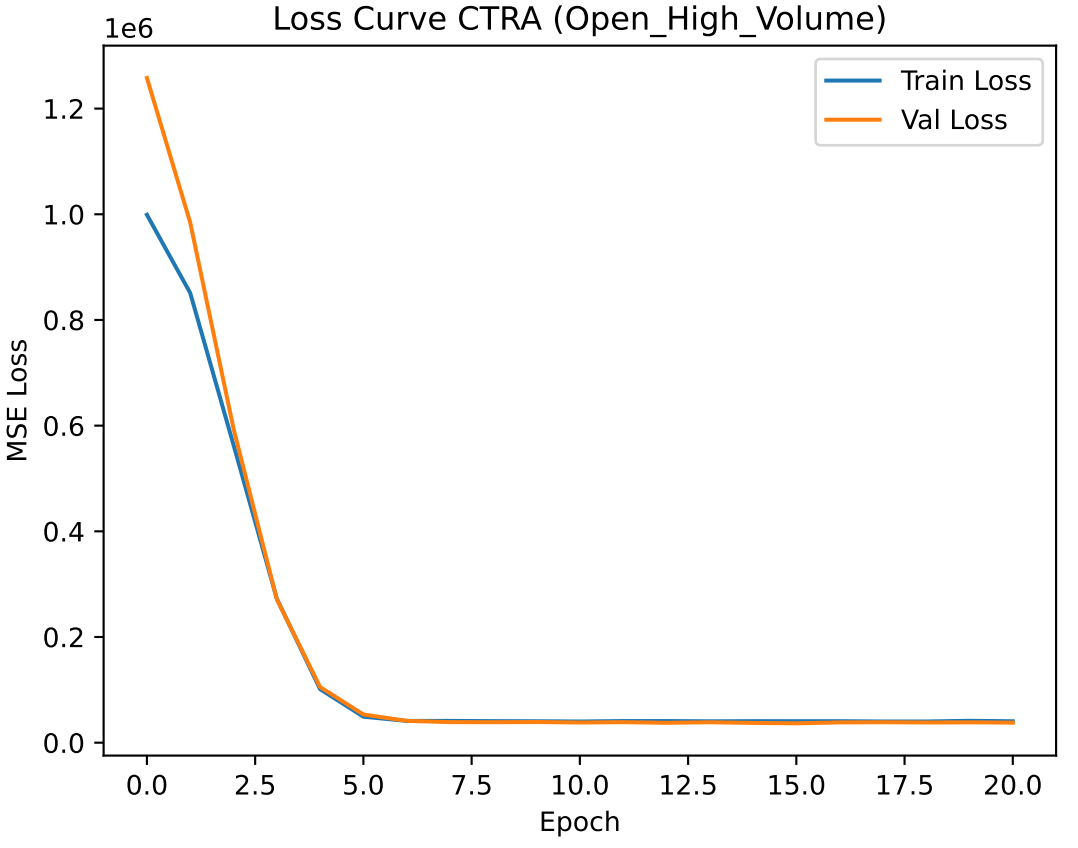

Loss Curve MBMA (Open_High_Low)
Train Loss
Val Loss
MSE Loss
Epoch
400000
300000
200000
100000
0
0
5
10
15
20
25
30
35

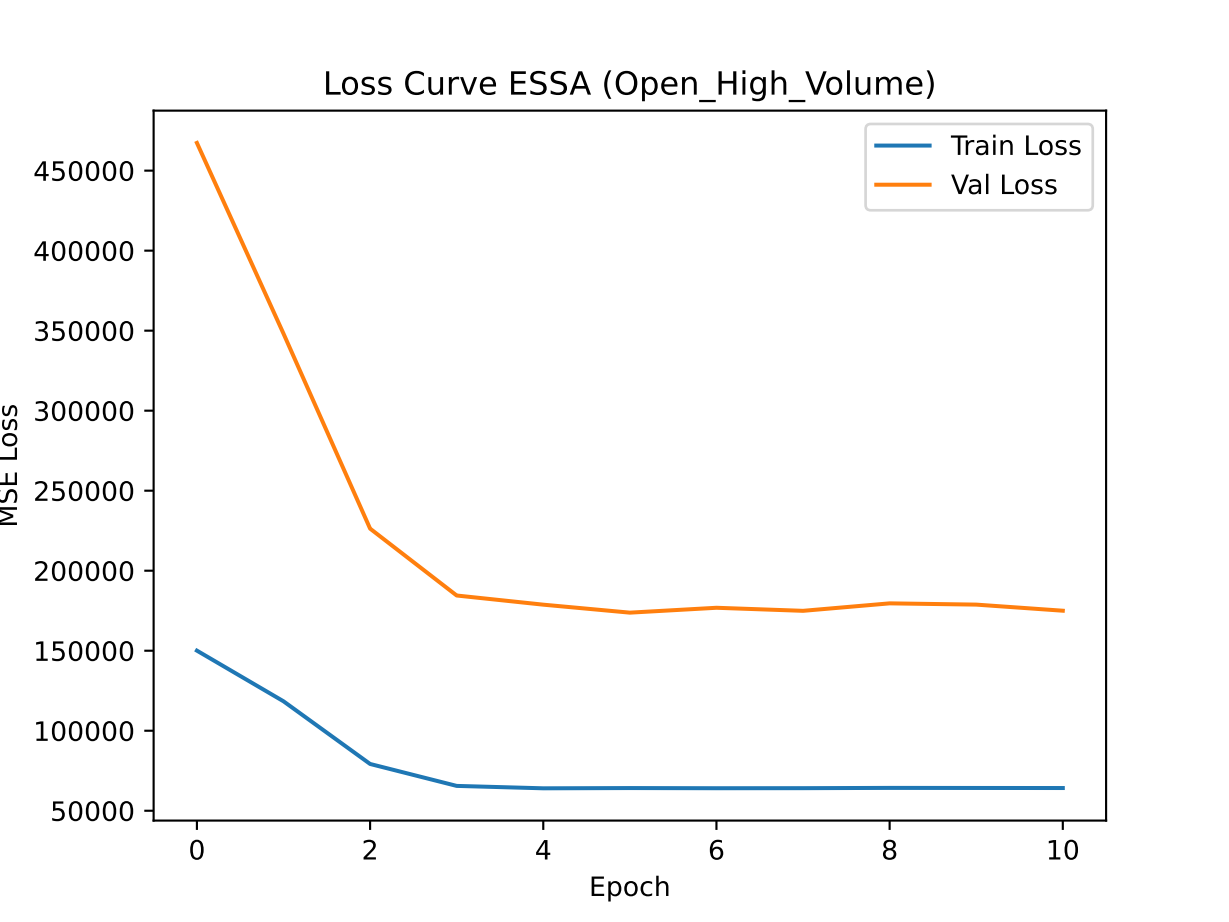

Loss Curve MDKA (Open_High_Low)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15
20
25
30
35

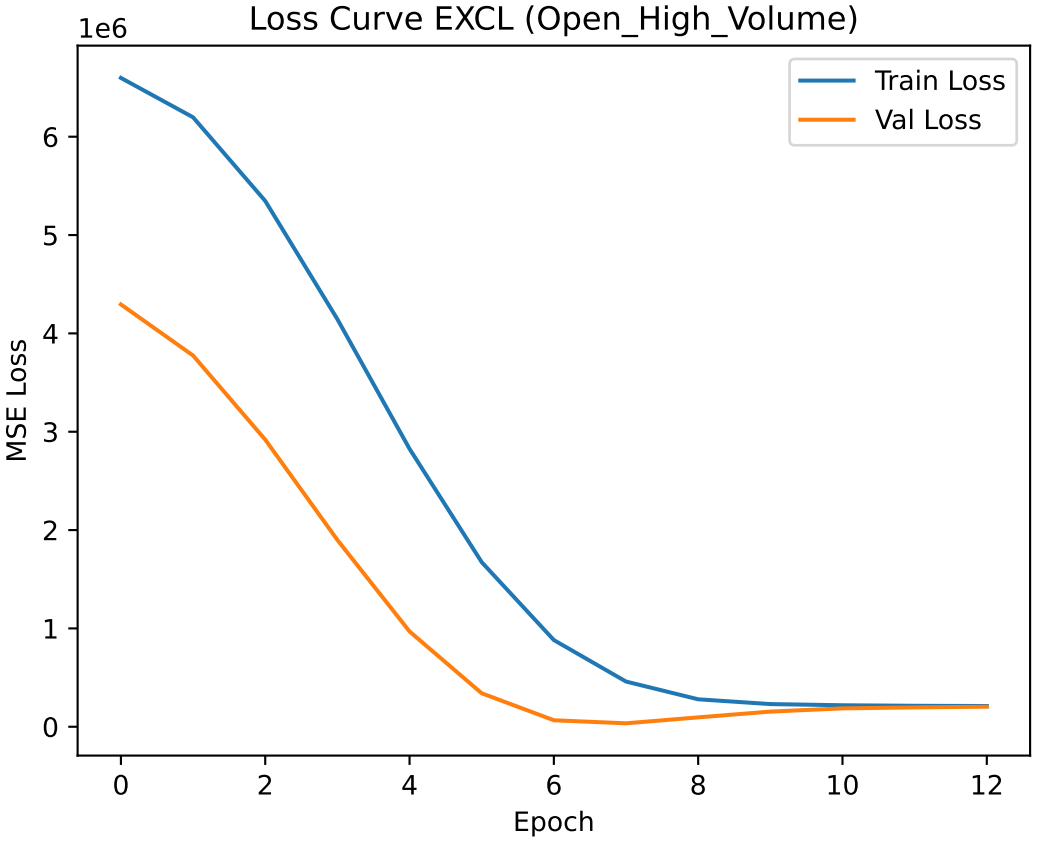

Loss Curve MEDC (Open_High_Low)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

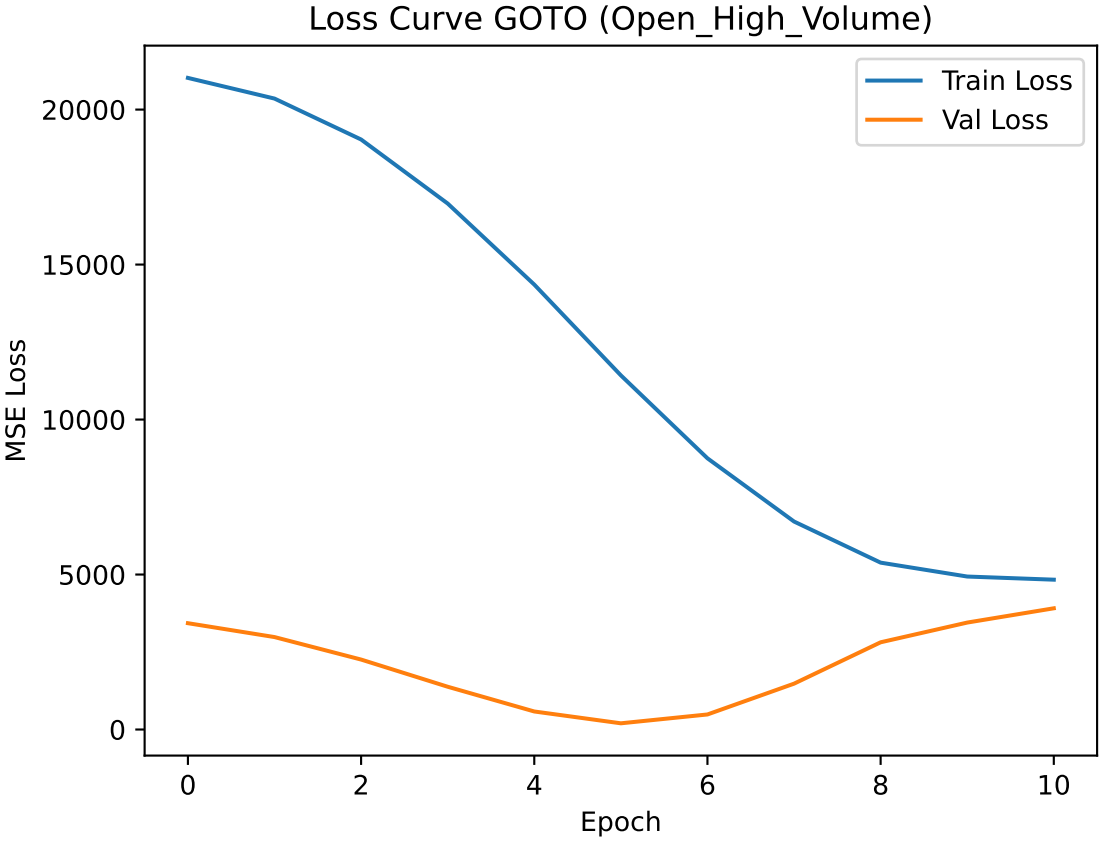

Loss Curve PGAS (Open_High_Low)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
Epoch
Train Loss
Val Loss

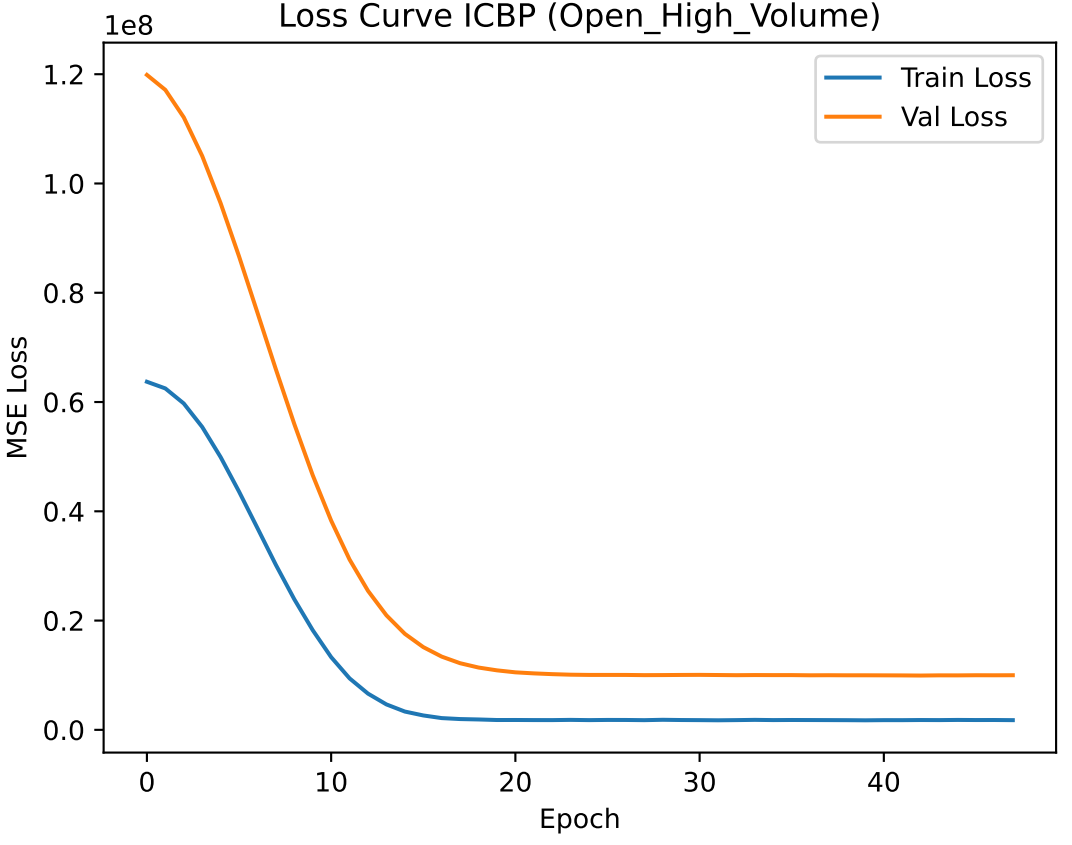

Loss Curve PGEO (Open_High_Low)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
Epoch

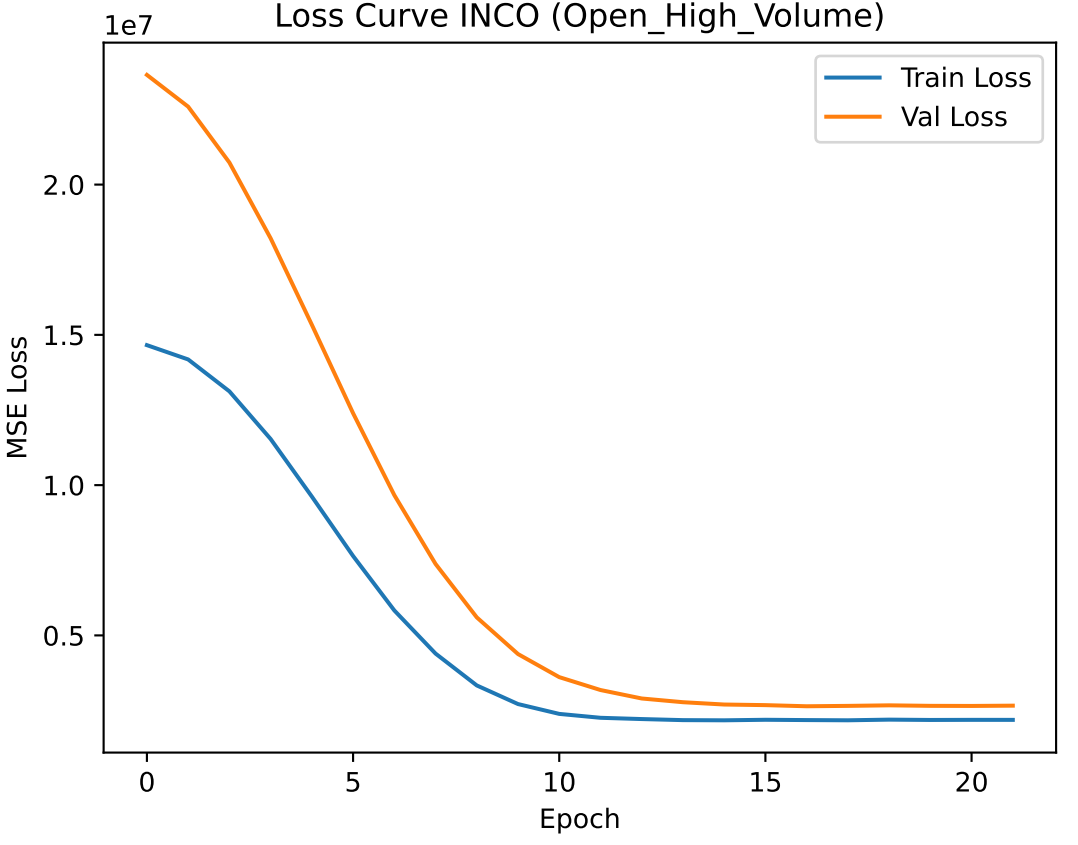

Loss Curve CTRA (Open_High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0

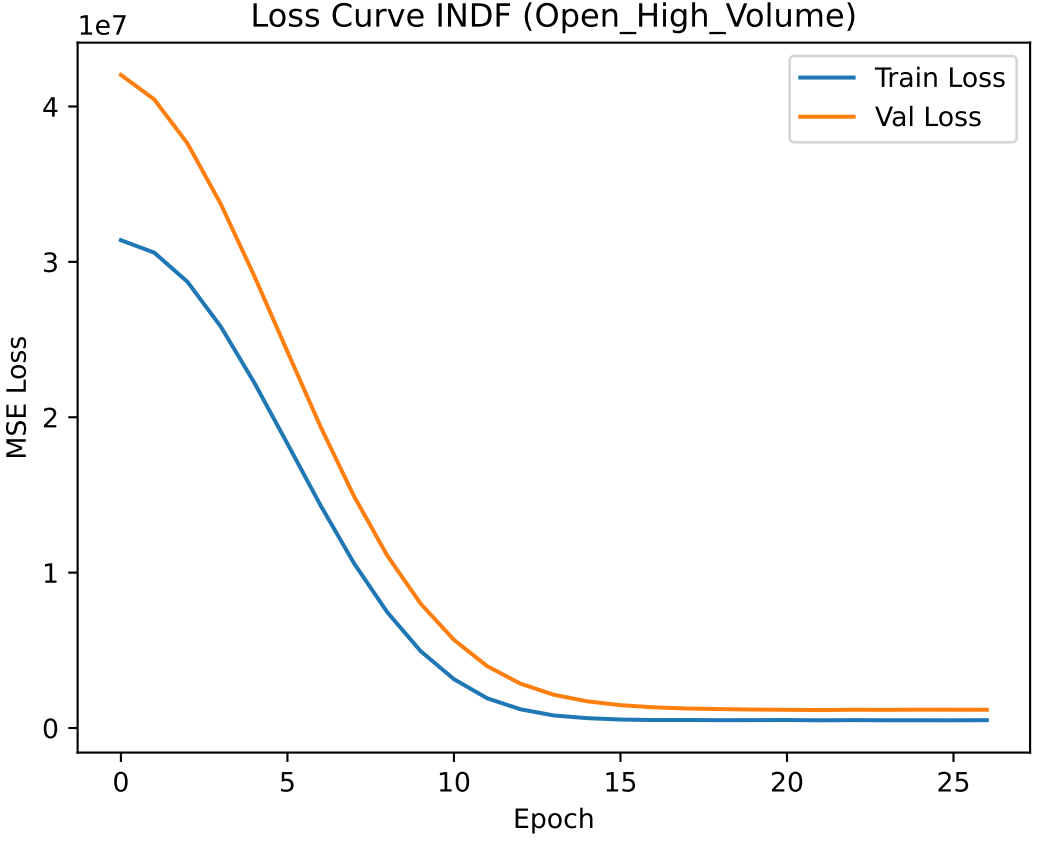

Loss Curve ESSA (Open_High_Volume)
Train Loss
Val Loss
MSE Loss
Epoch
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8
10

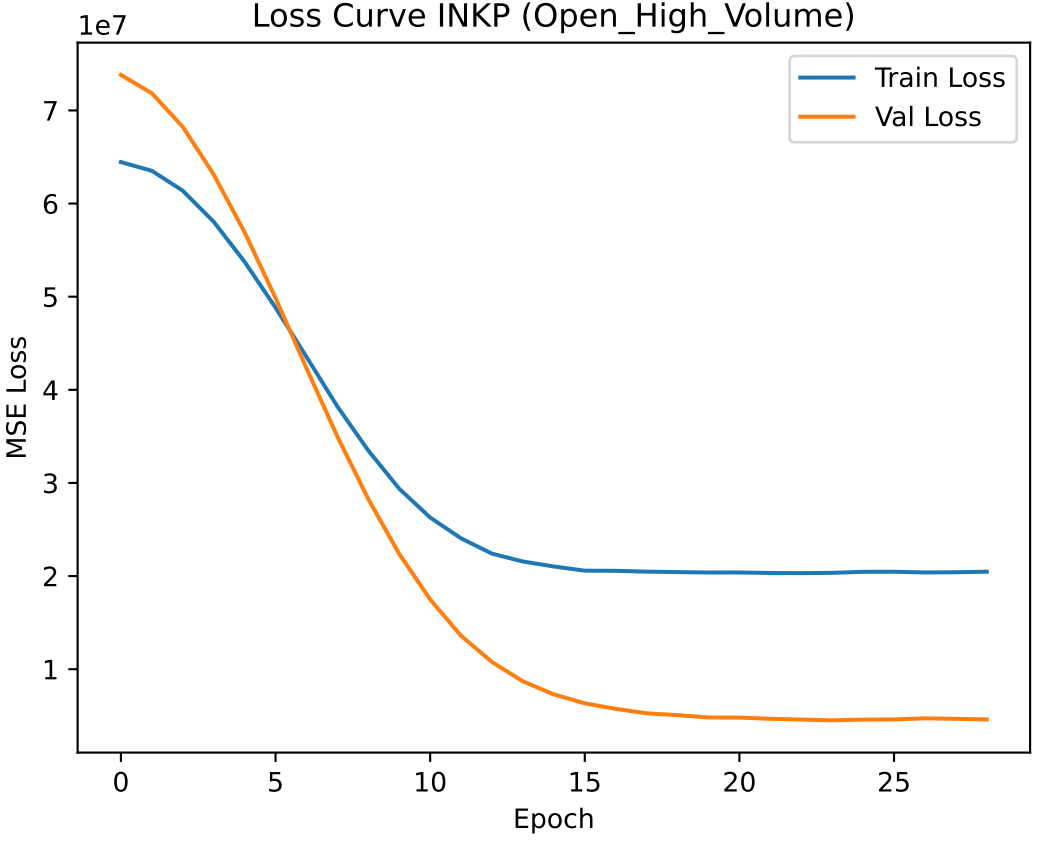

Loss Curve EXCL (Open_High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

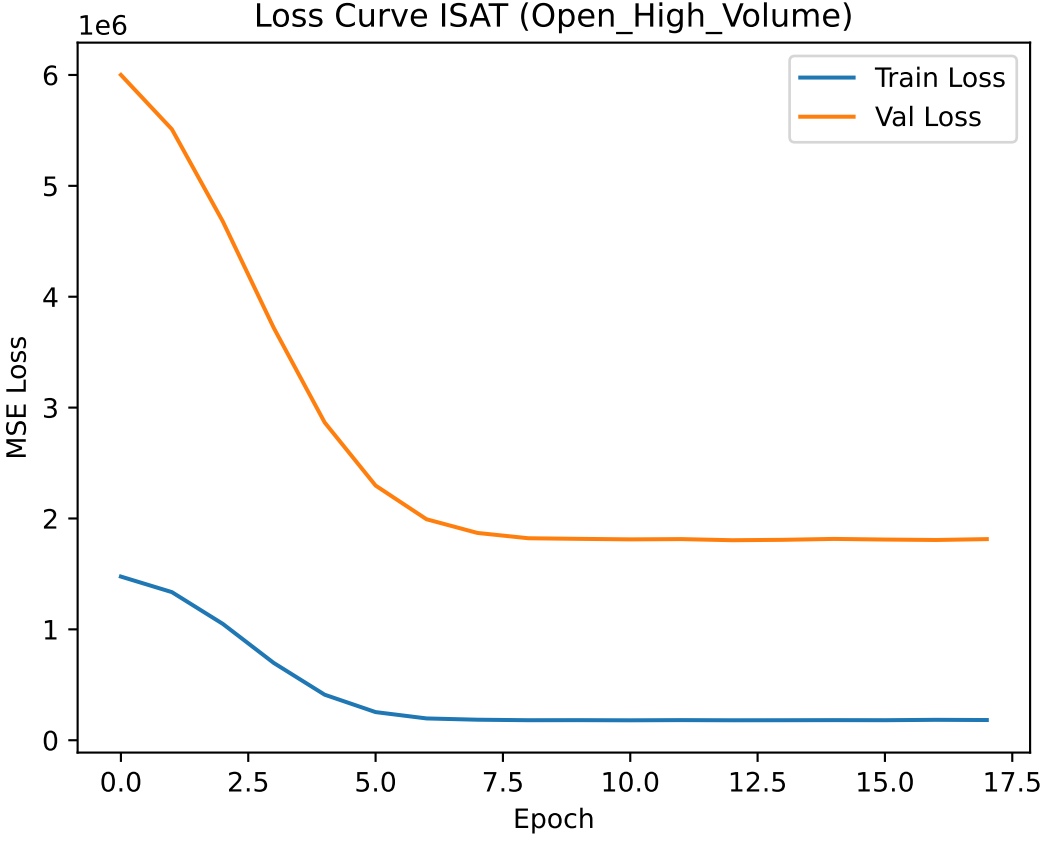

Loss Curve GOTO (Open_High_Volume)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

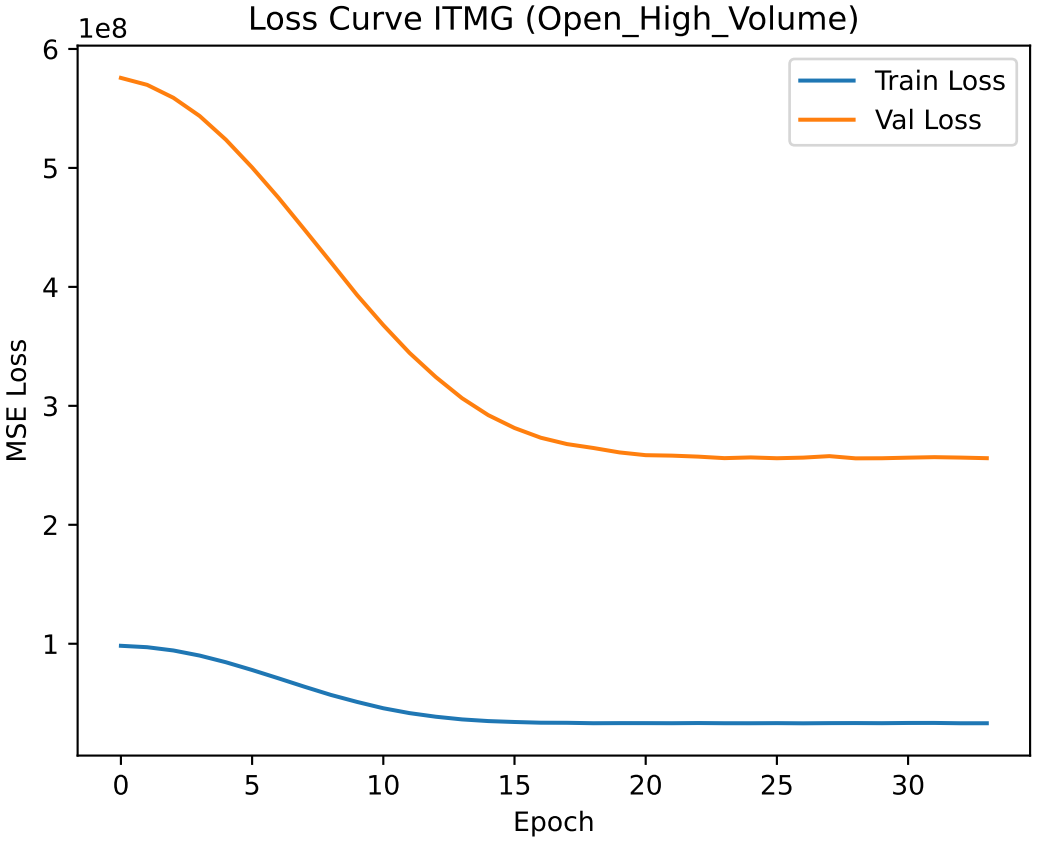

Loss Curve ICBP (Open_High_Volume)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
10
20
30
40
Epoch
Train Loss
Val Loss

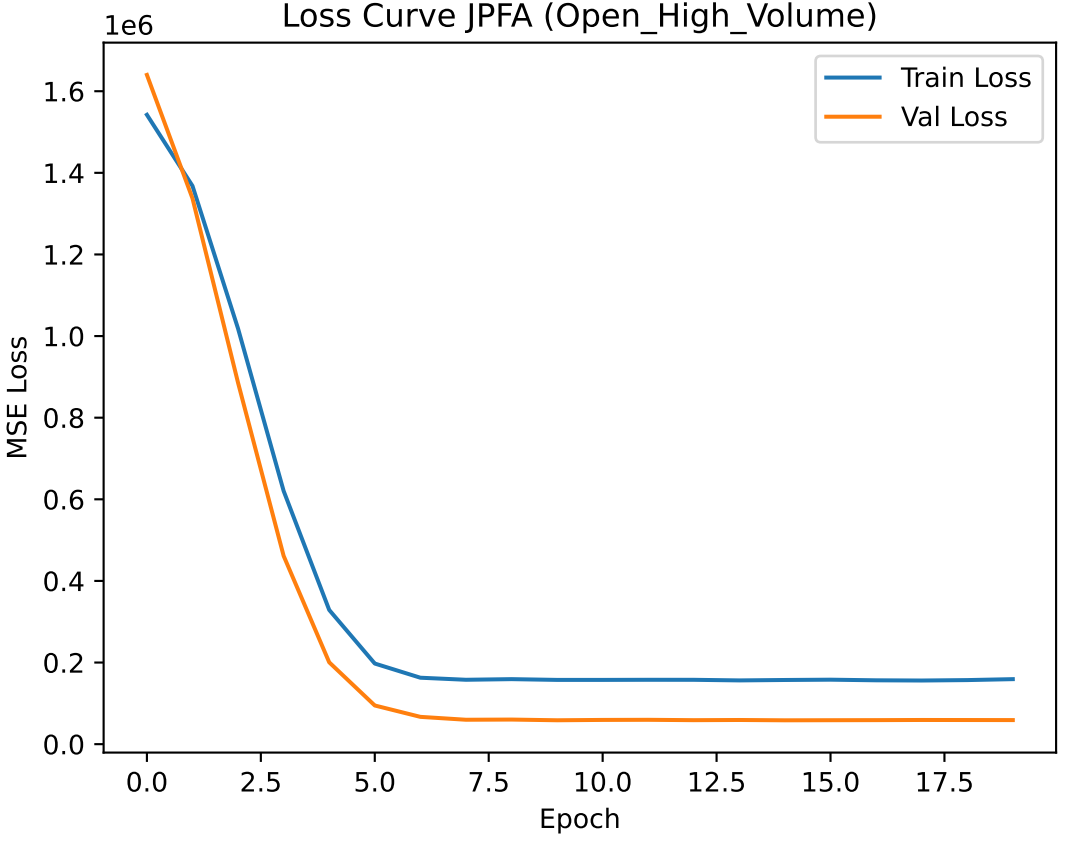

Loss Curve INCO (Open_High_Volume)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0
5
10
15
20
Epoch

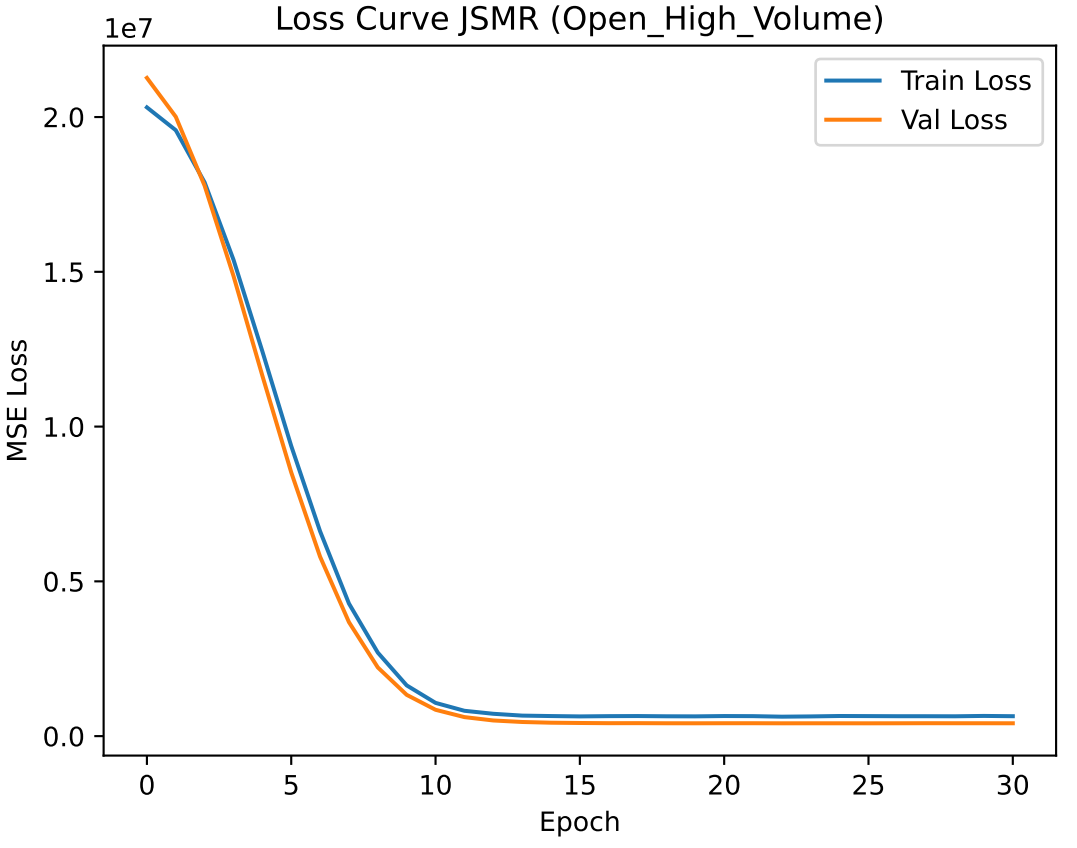

Loss Curve INDF (Open_High_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25

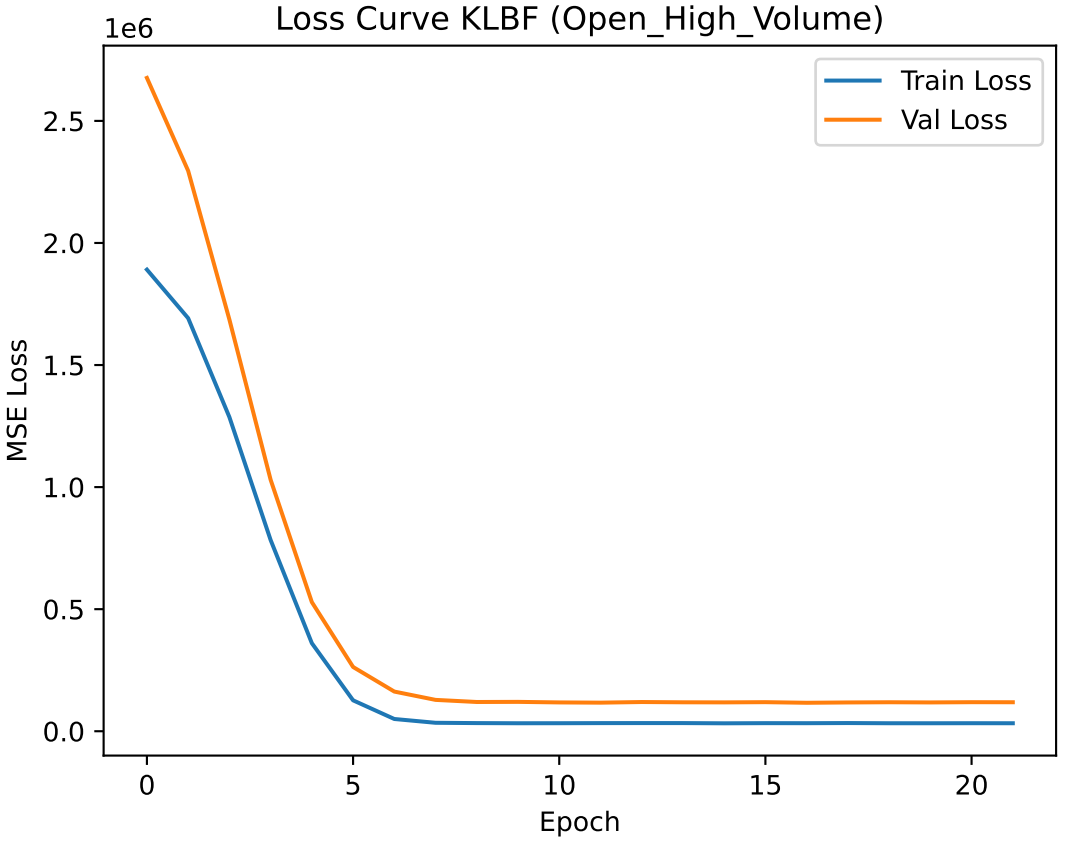

Loss Curve INKP (Open_High_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
1
2
3
4
5
6
7

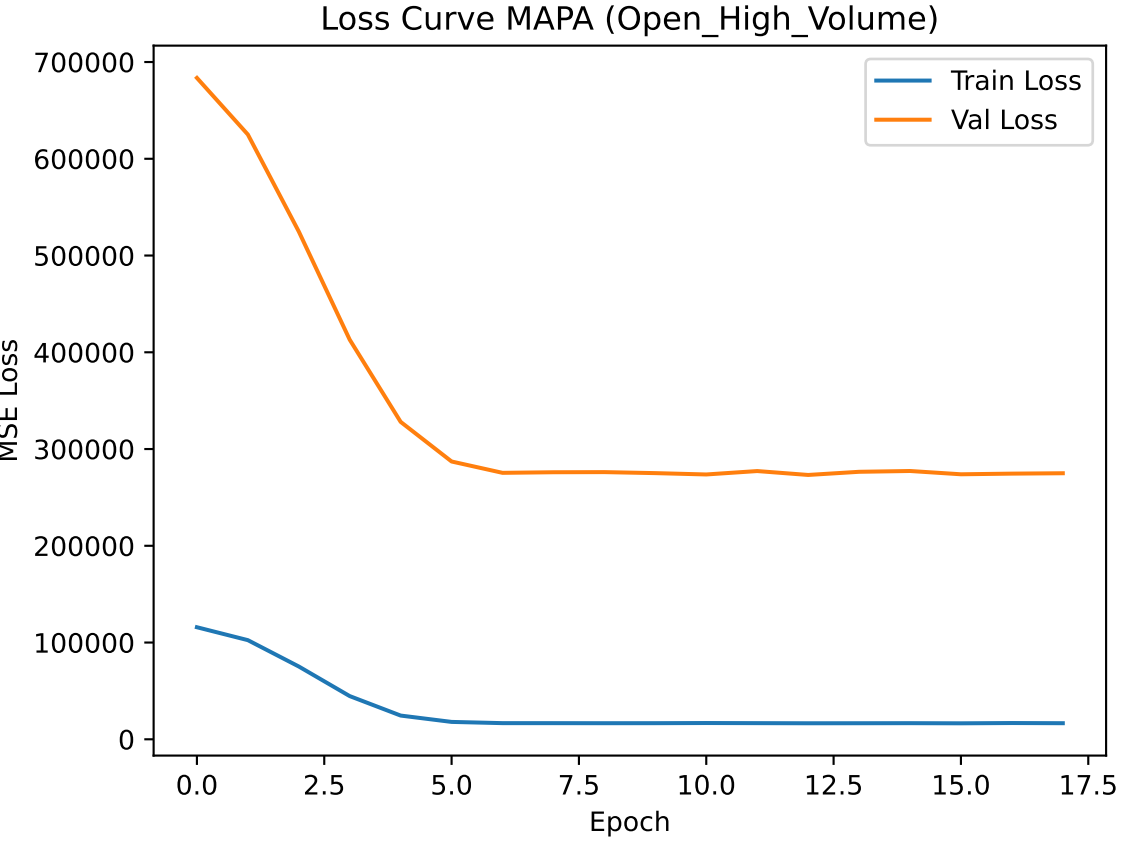

Loss Curve ISAT (Open_High_Volume)
1e6
6
5
4
3
2
1
0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

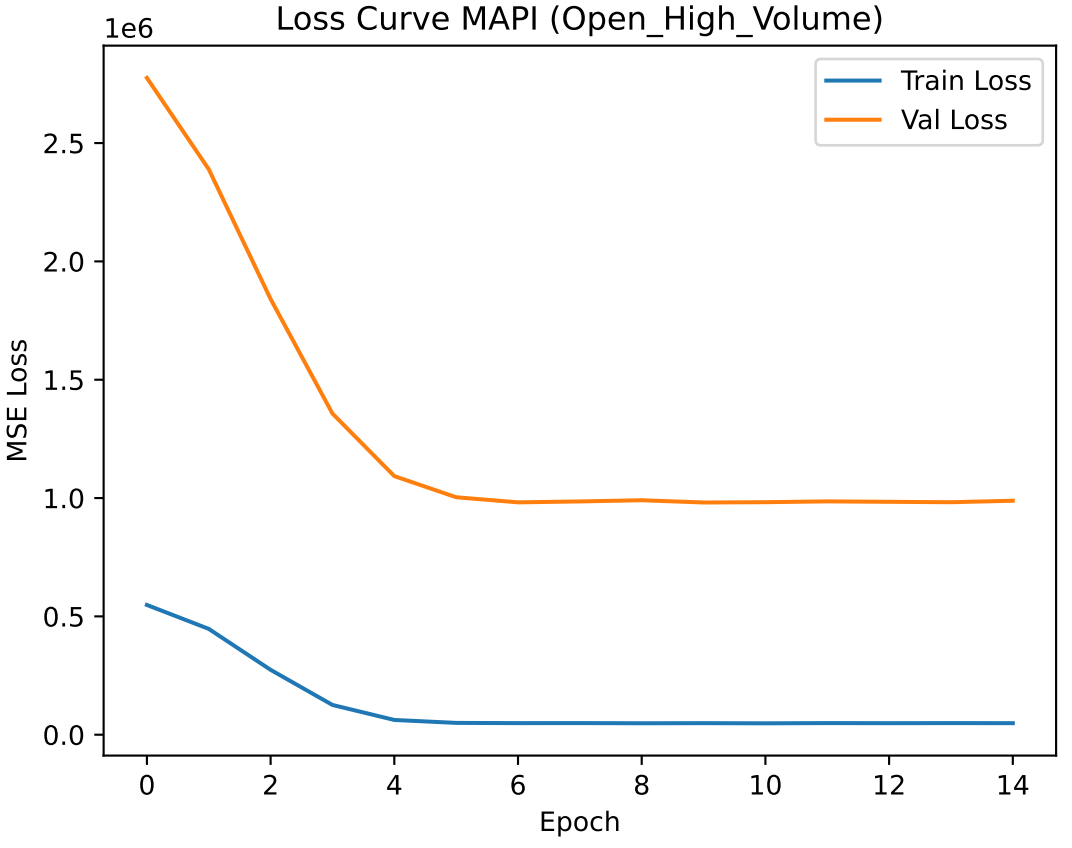

Loss Curve ITMG (Open_High_Volume)
1e8
6
5
4
3
2
1
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

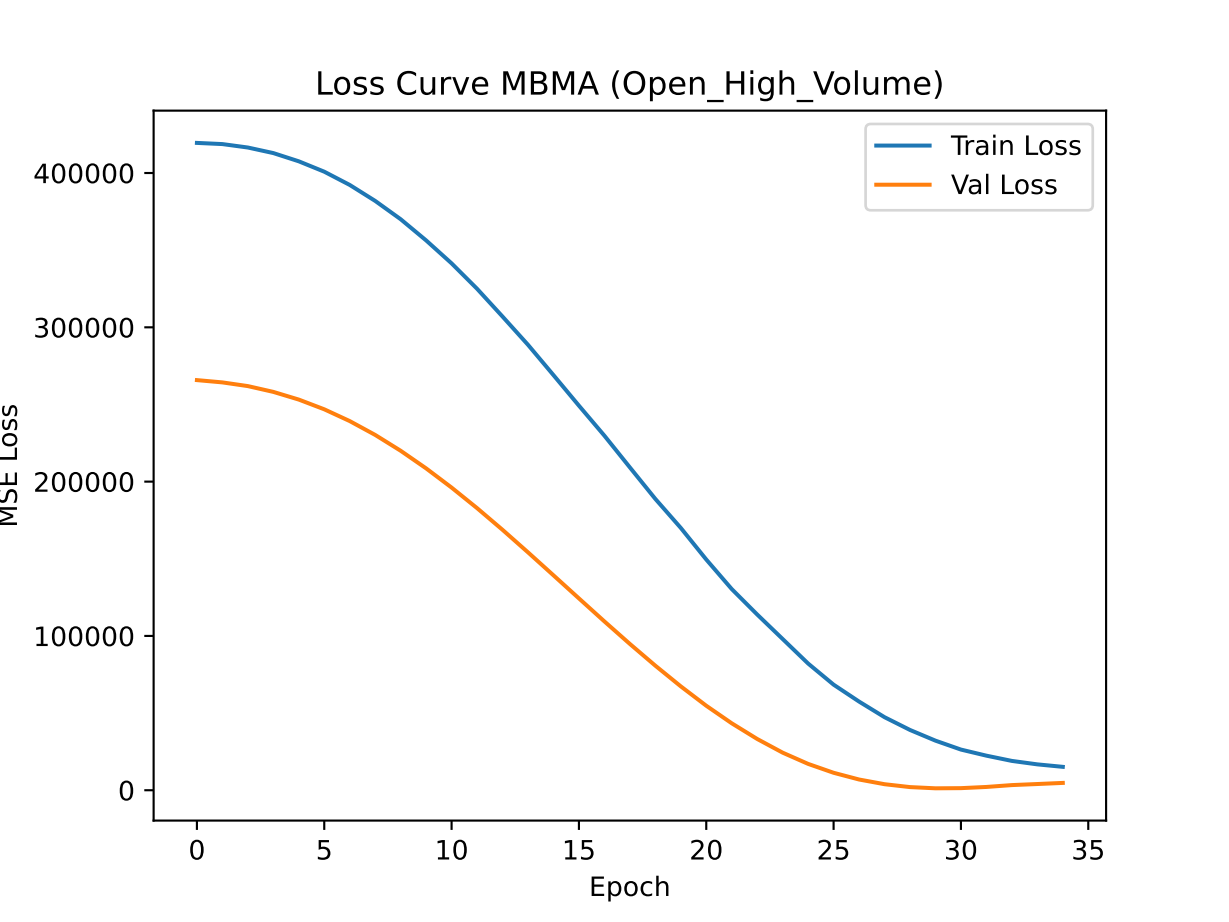

Loss Curve JPFA (Open_High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

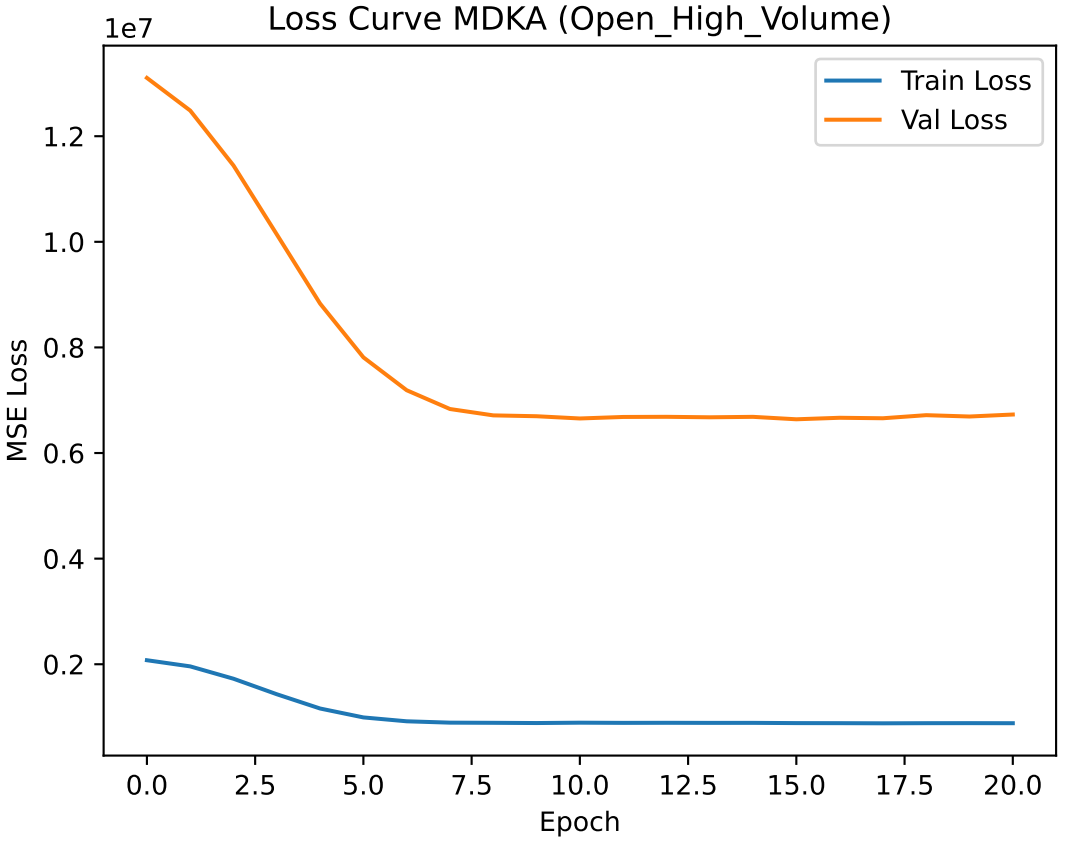

Loss Curve JSMR (Open_High_Volume)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30
Epoch

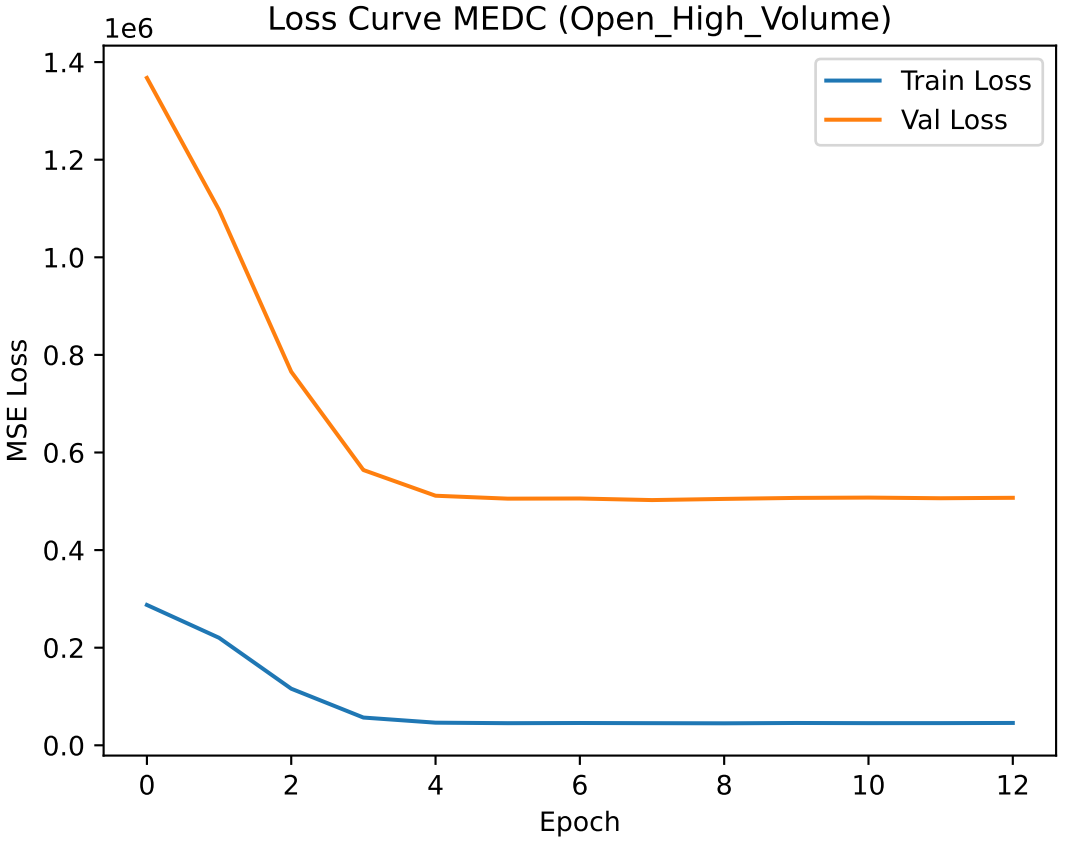

Loss Curve KLBF (Open_High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
Epoch

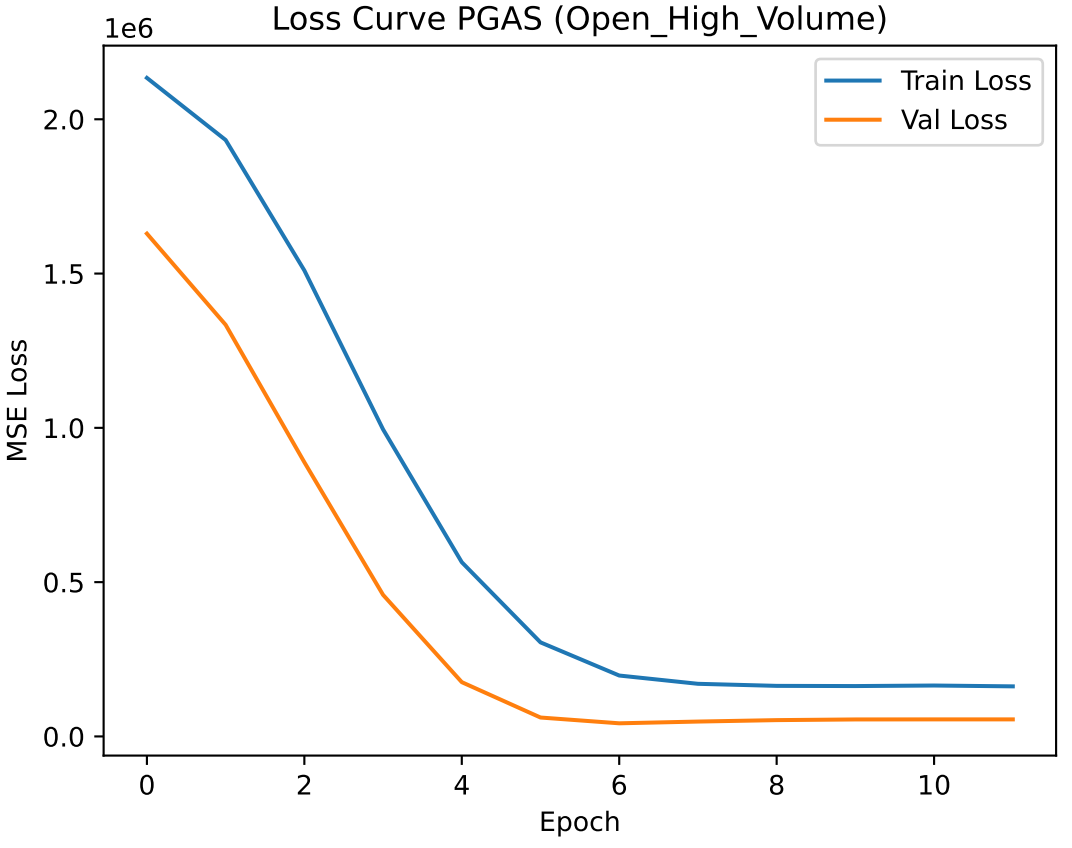

Loss Curve MAPA (Open_High_Volume)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

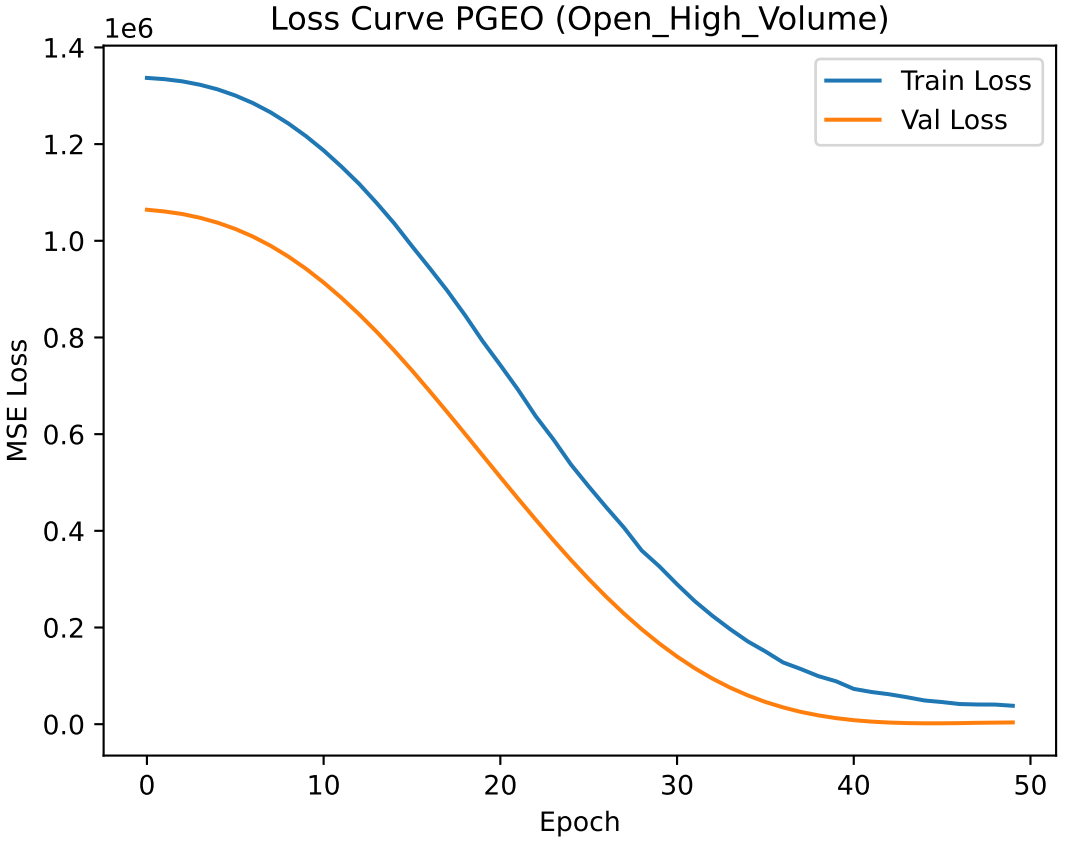

Loss Curve MAPI (Open_High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

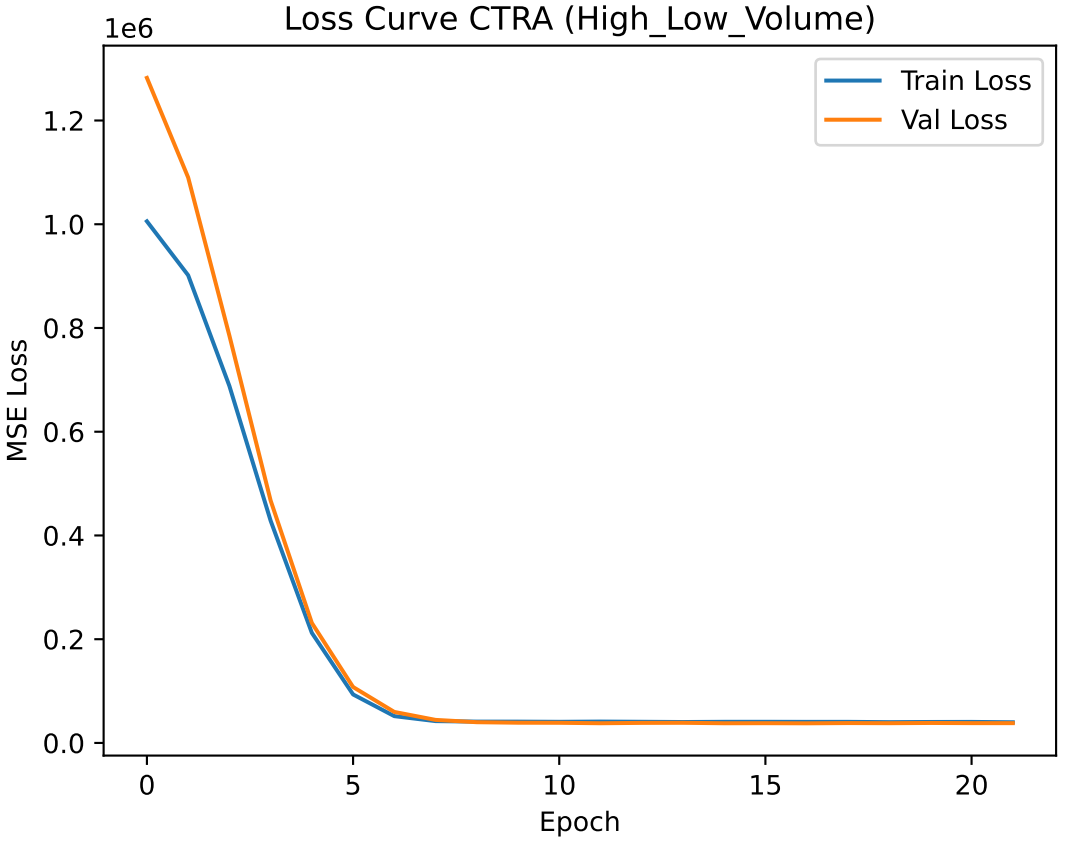

Loss Curve MBMA (Open_High_Volume)
Train Loss
Val Loss
MSE Loss
400000
300000
200000
100000
0
0
5
10
15
20
25
30
35
Epoch

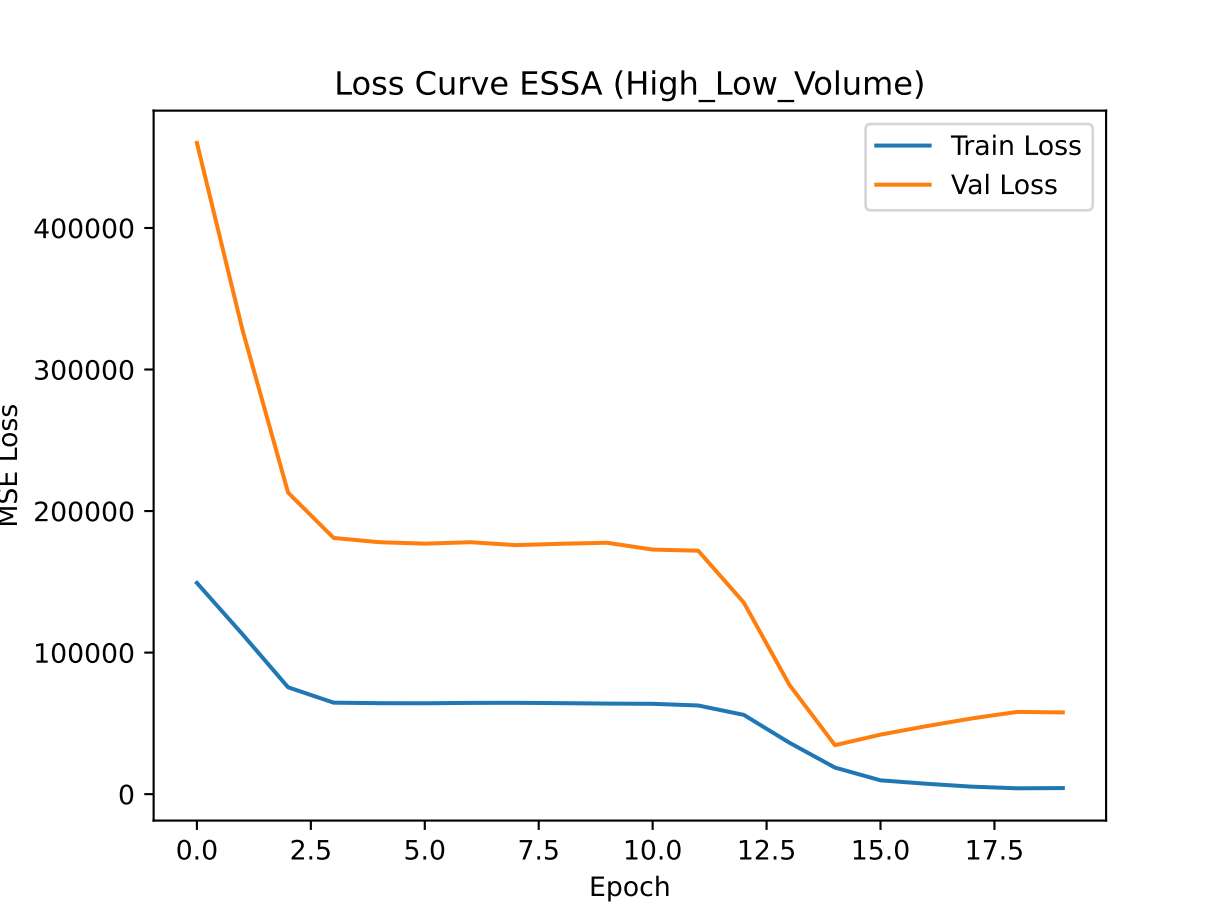

Loss Curve MDKA (Open_High_Volume)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

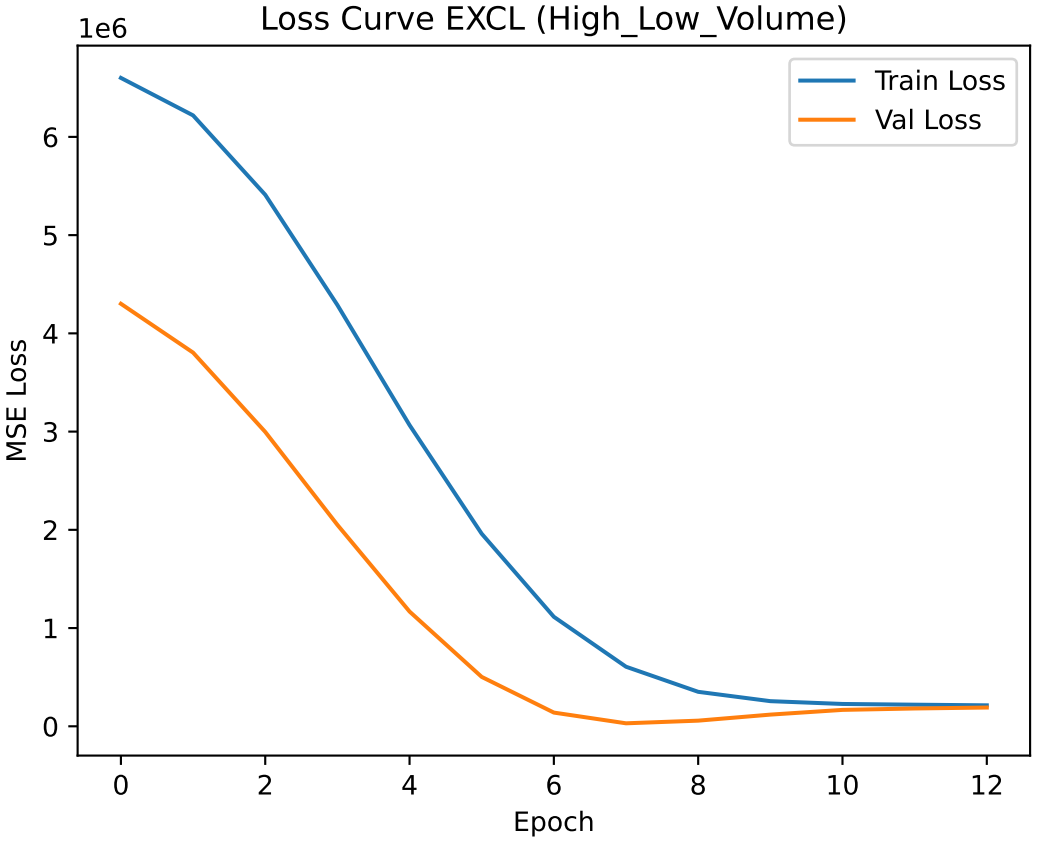

Loss Curve MEDC (Open_High_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
2
4
6
8
10
12
Epoch
Train Loss
Val Loss

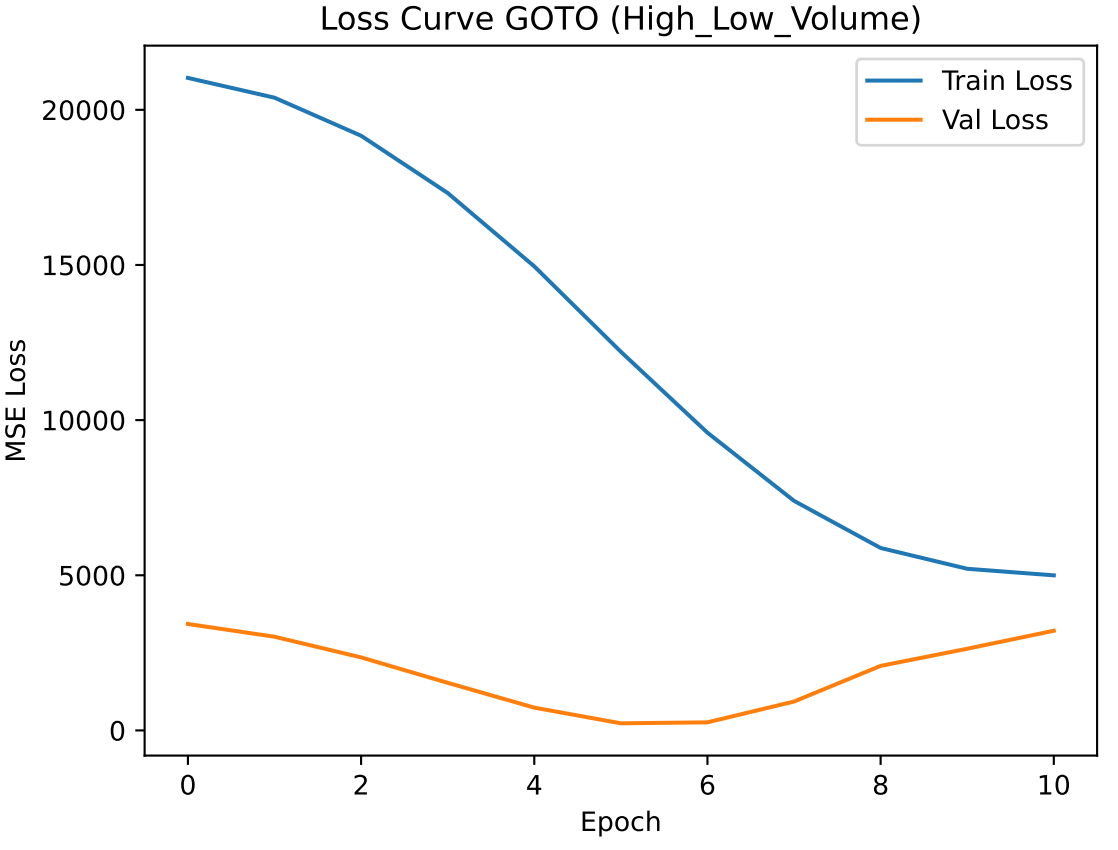

Loss Curve PGAS (Open_High_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

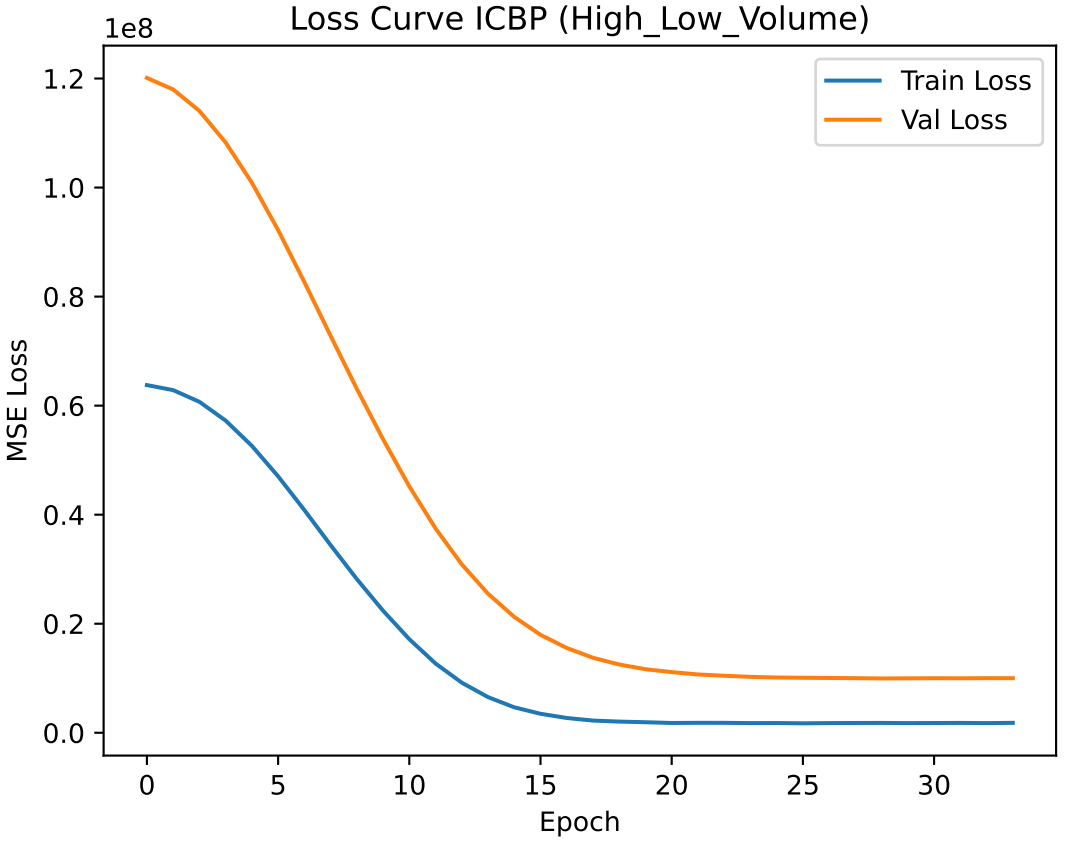

Loss Curve PGEO (Open_High_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

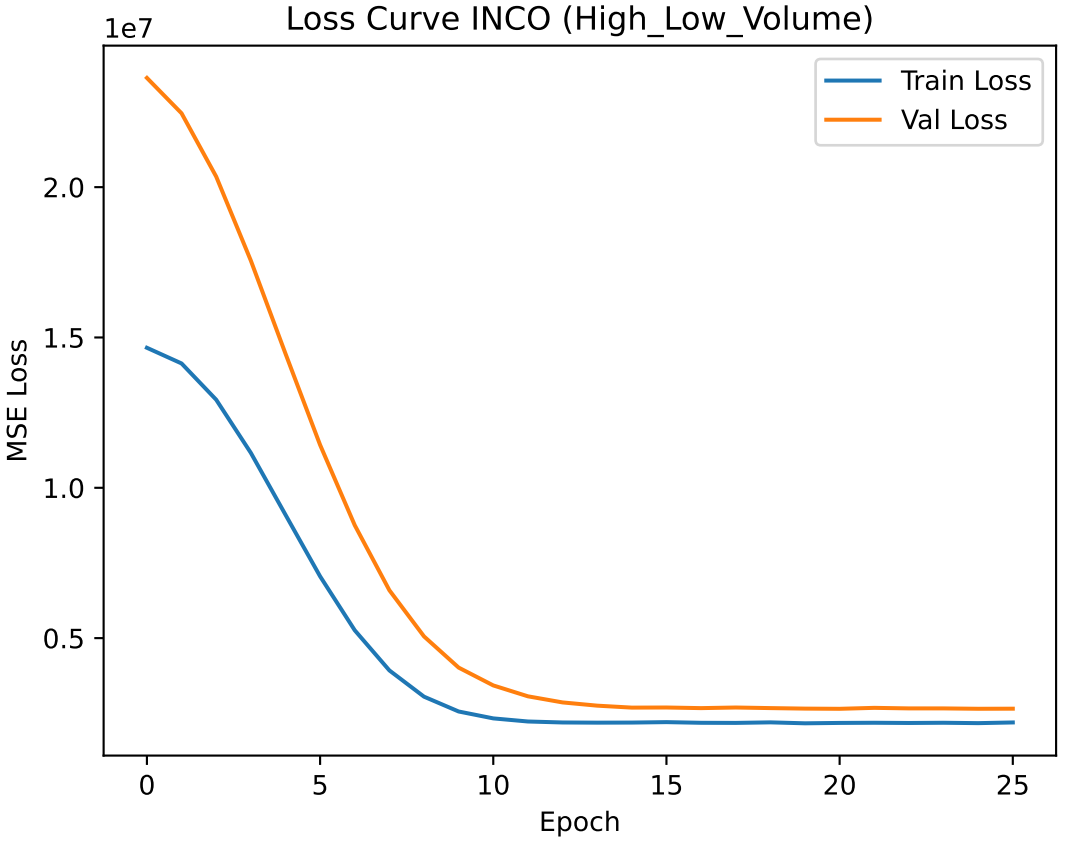

Loss Curve CTRA (High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15
20

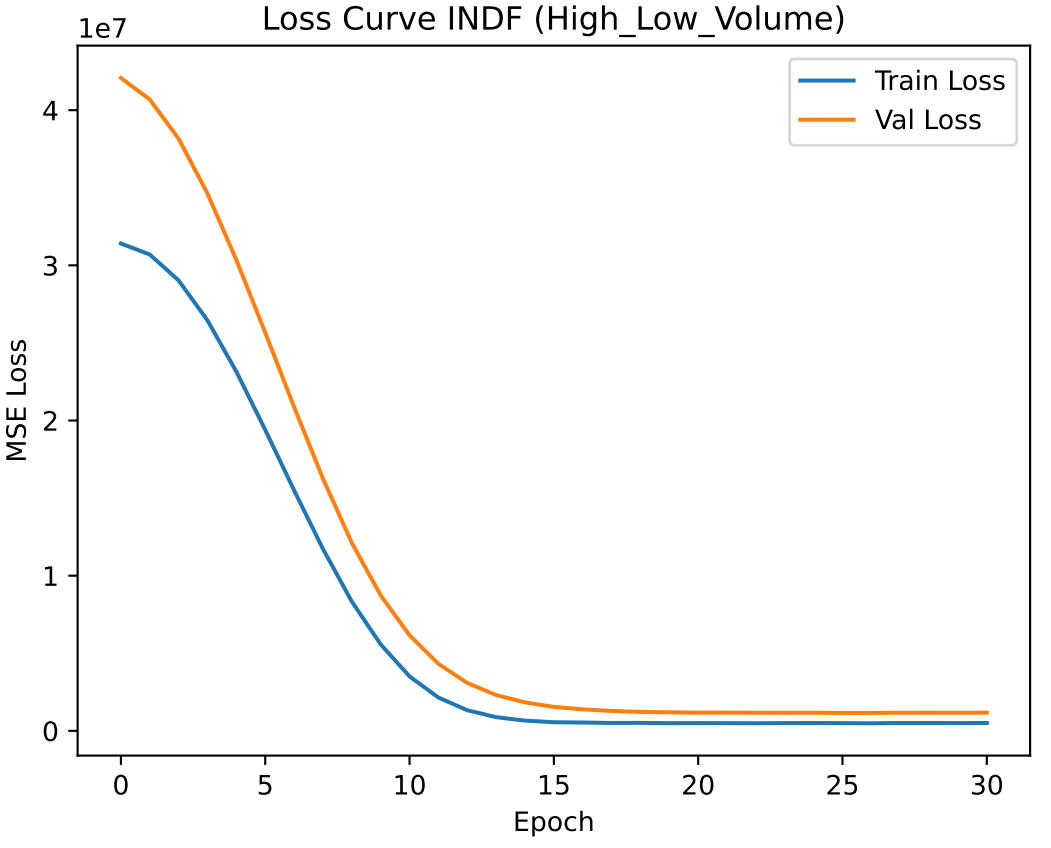

Loss Curve ESSA (High_Low_Volume)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

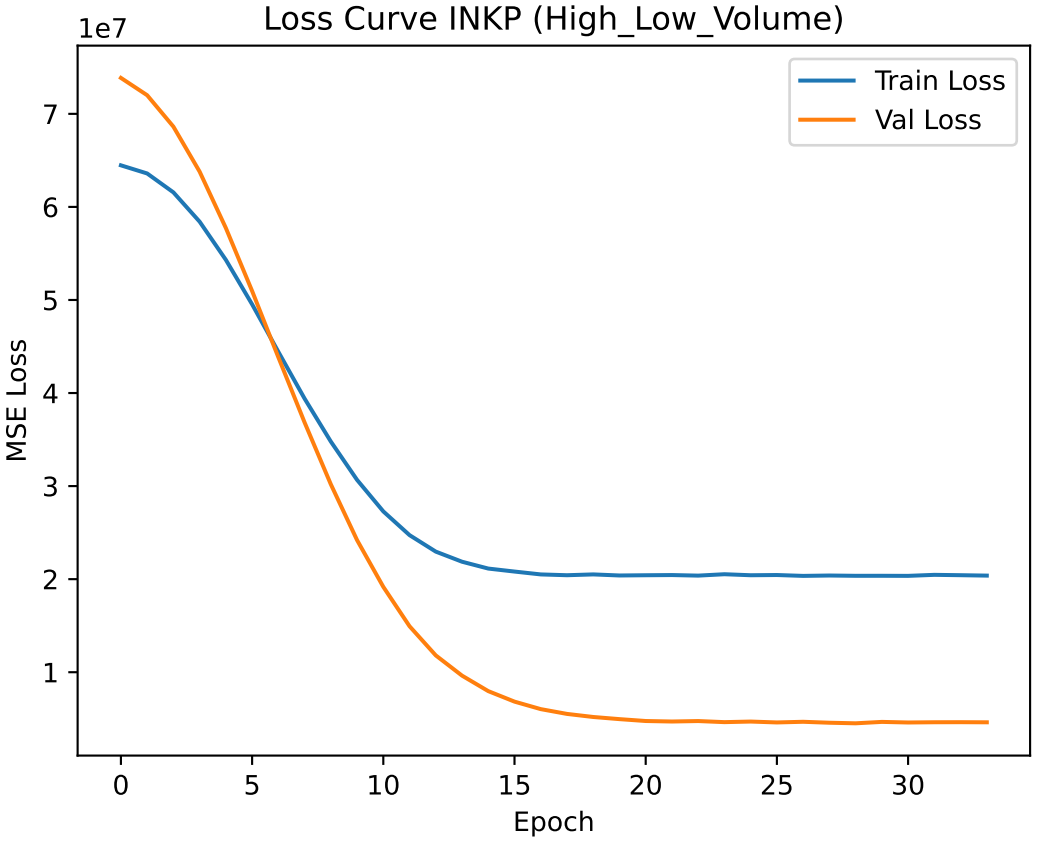

Loss Curve EXCL (High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
0
1
2
3
4
5
6
0
2
4
6
8
10
12
Epoch

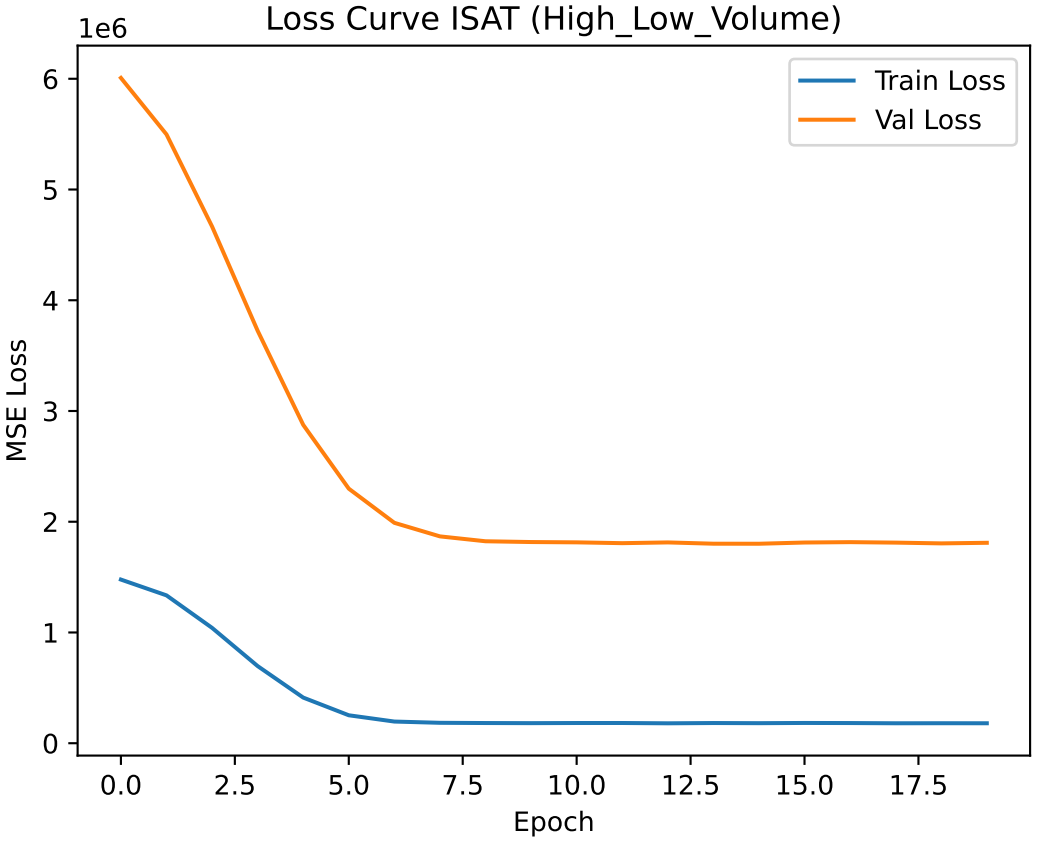

Loss Curve GOTO (High_Low_Volume)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

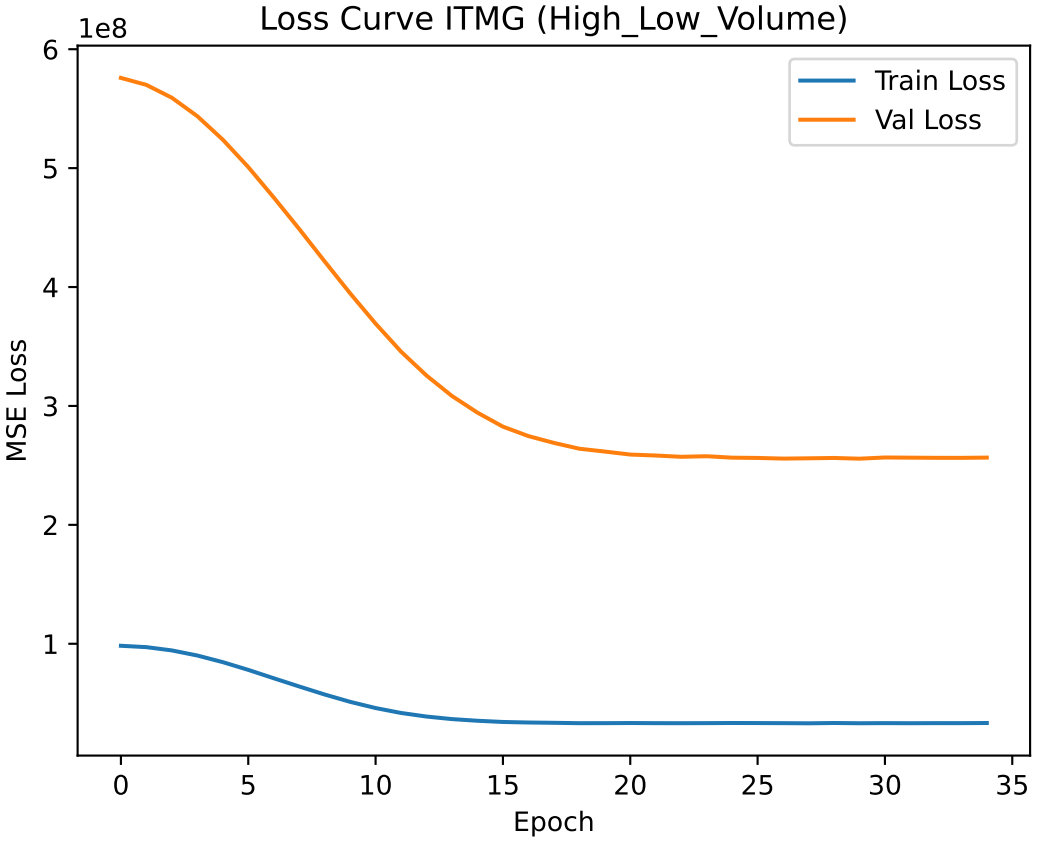

Loss Curve ICBP (High_Low_Volume)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

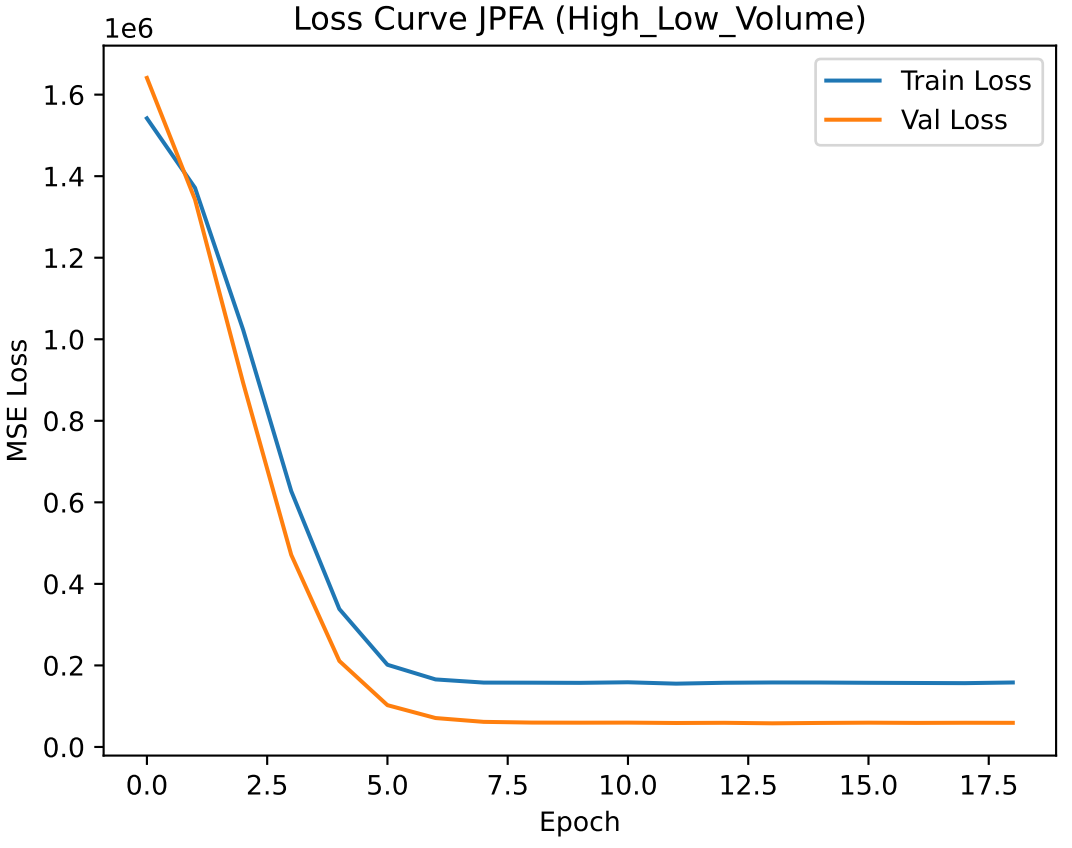

Loss Curve INCO (High_Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0
5
10
15
20
25
Epoch

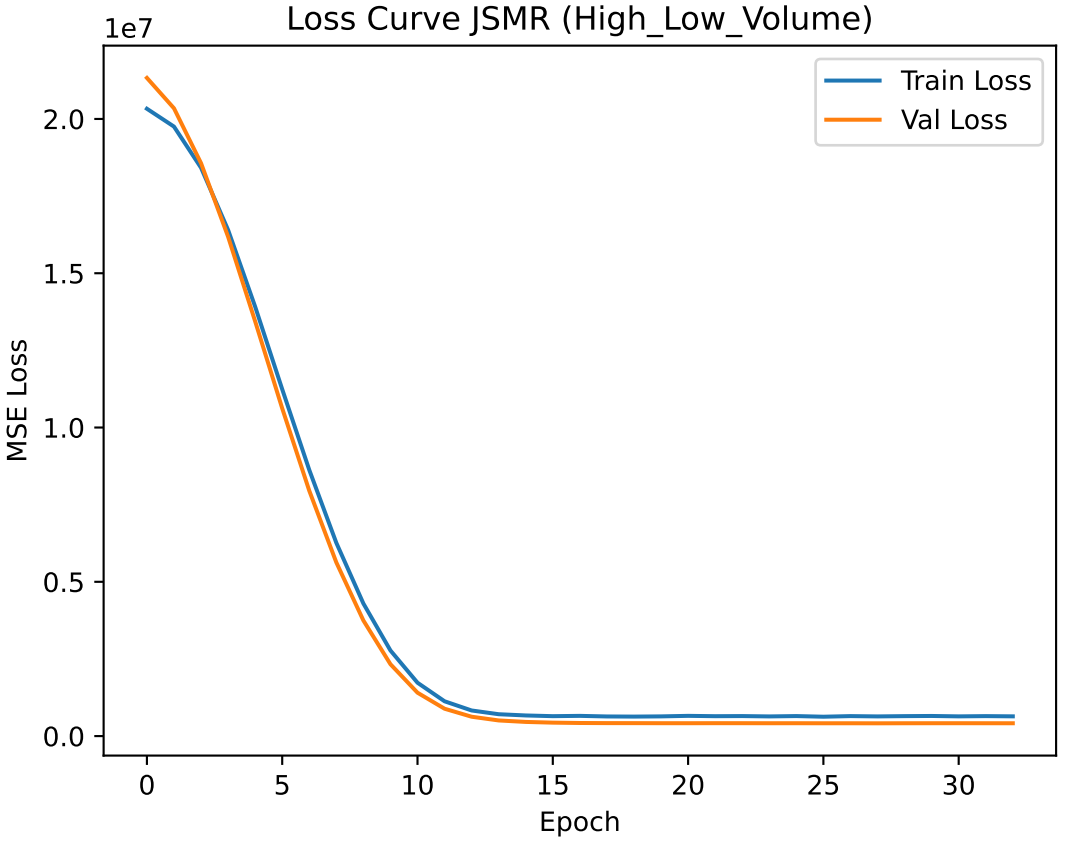

Loss Curve INDF (High_Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30

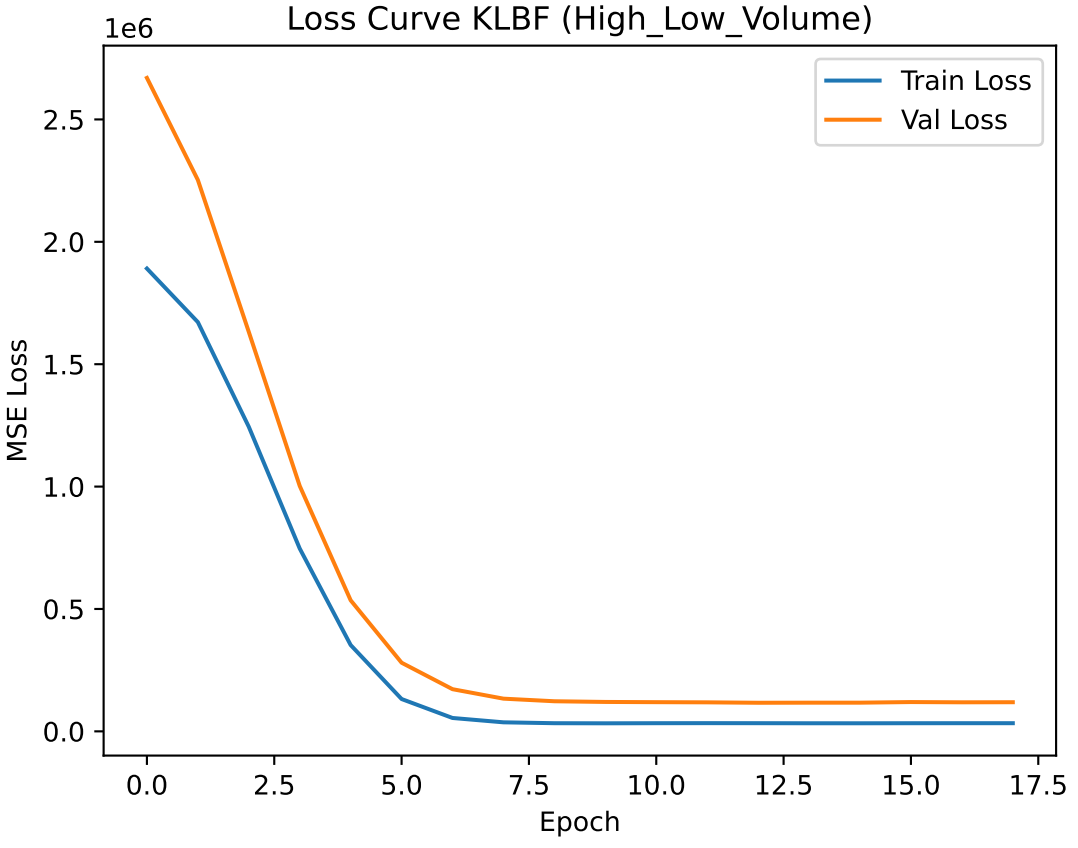

Loss Curve INKP (High_Low_Volume)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
1
2
3
4
5
6
7
0
5
10
15
20
25
30

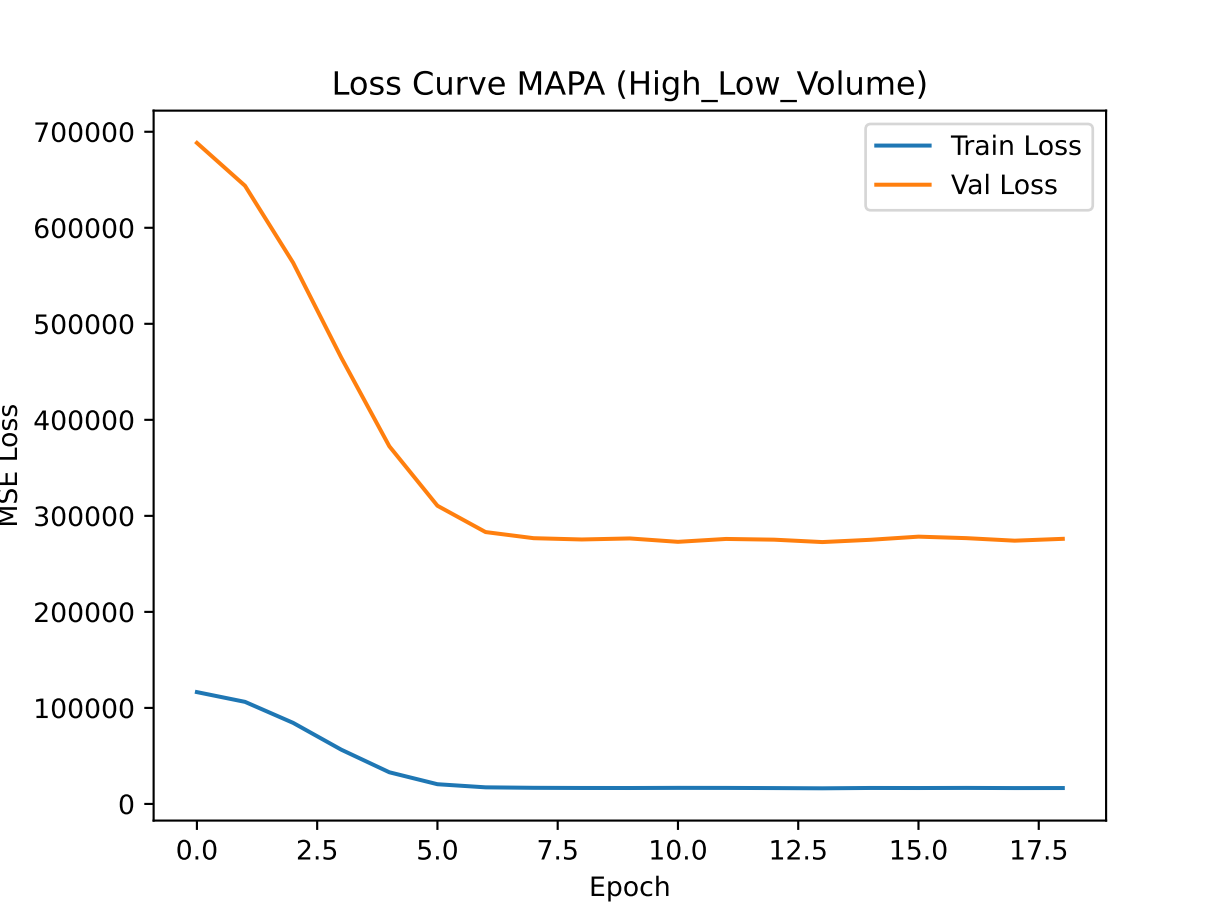

Loss Curve ISAT (High_Low_Volume)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

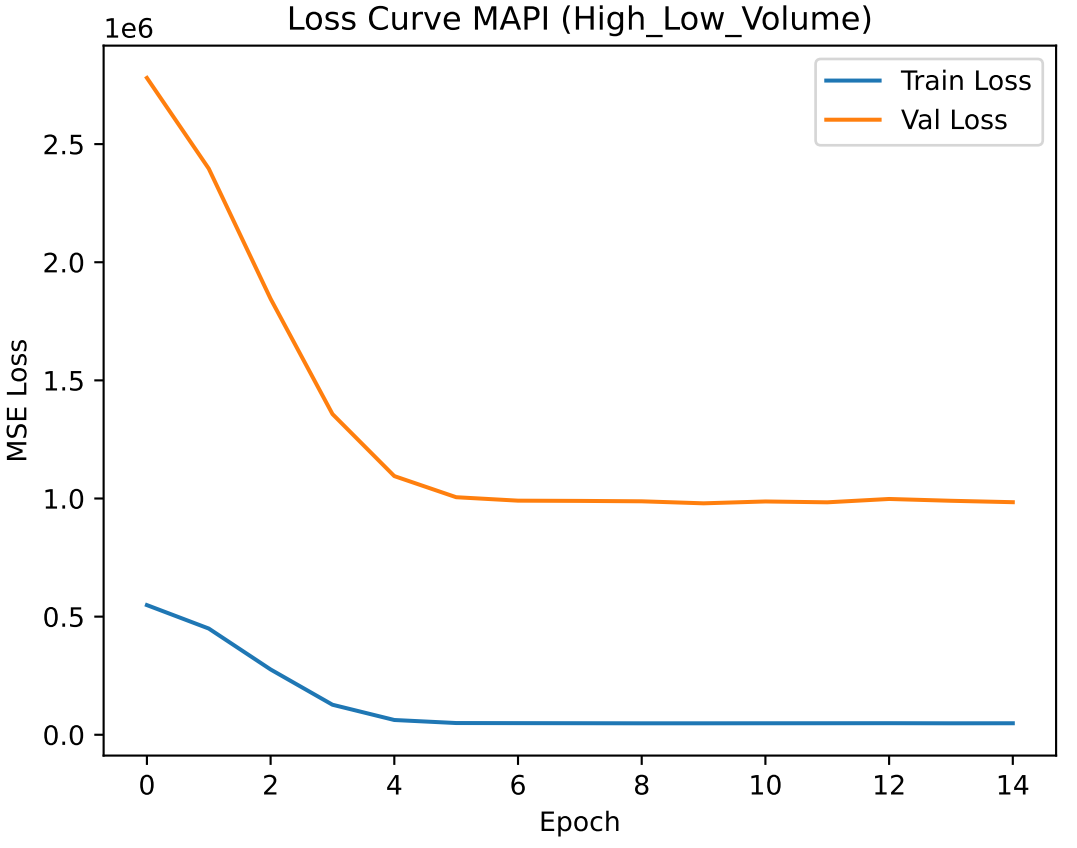

Loss Curve ITMG (High_Low_Volume)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

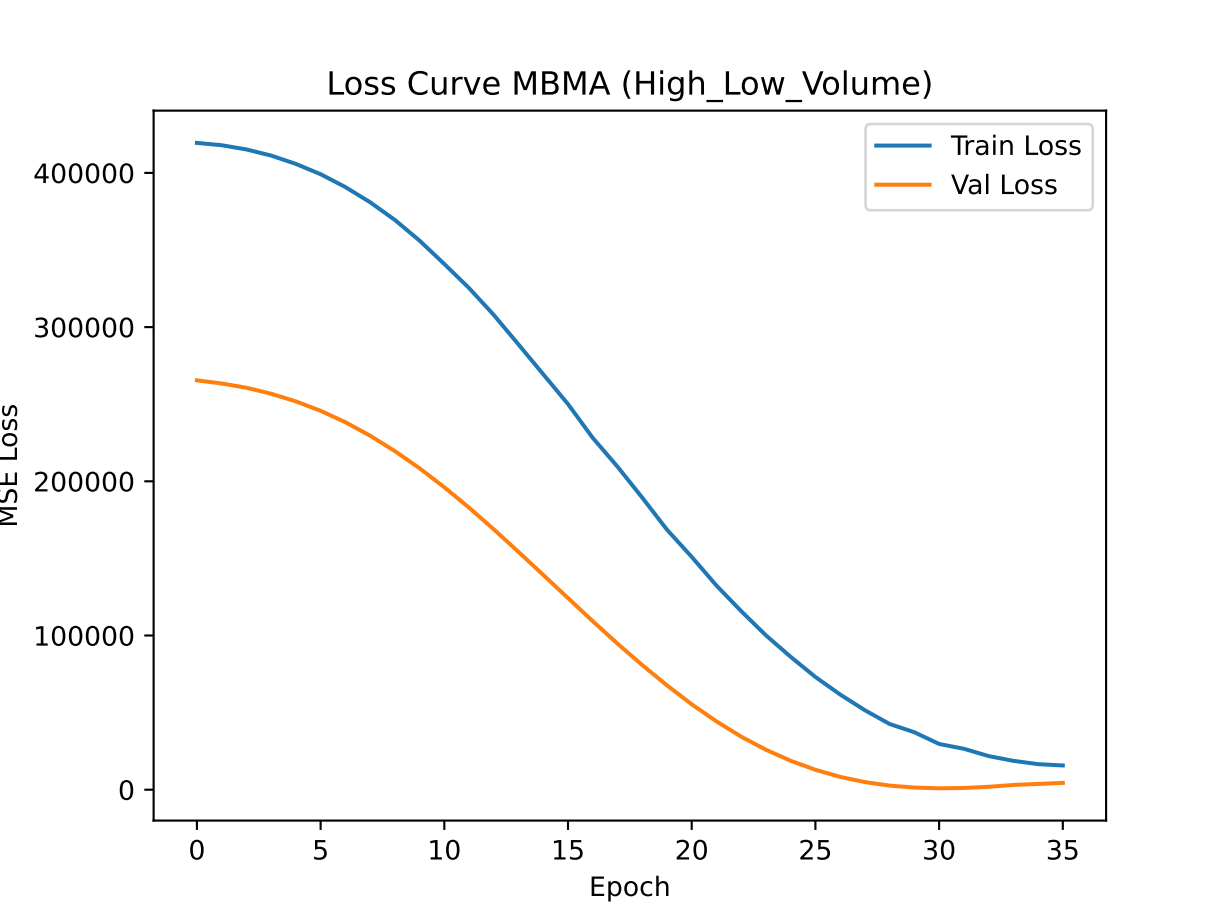

Loss Curve JPFA (High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

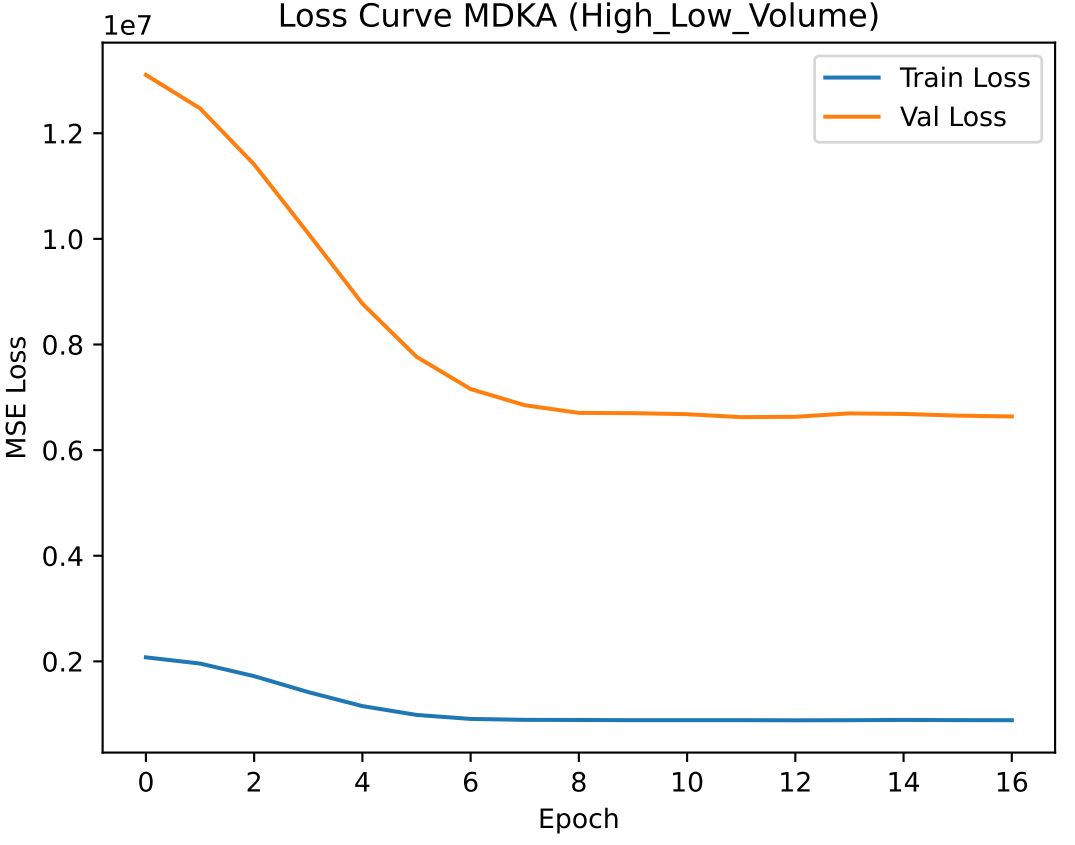

Loss Curve JSMR (High_Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30
Epoch

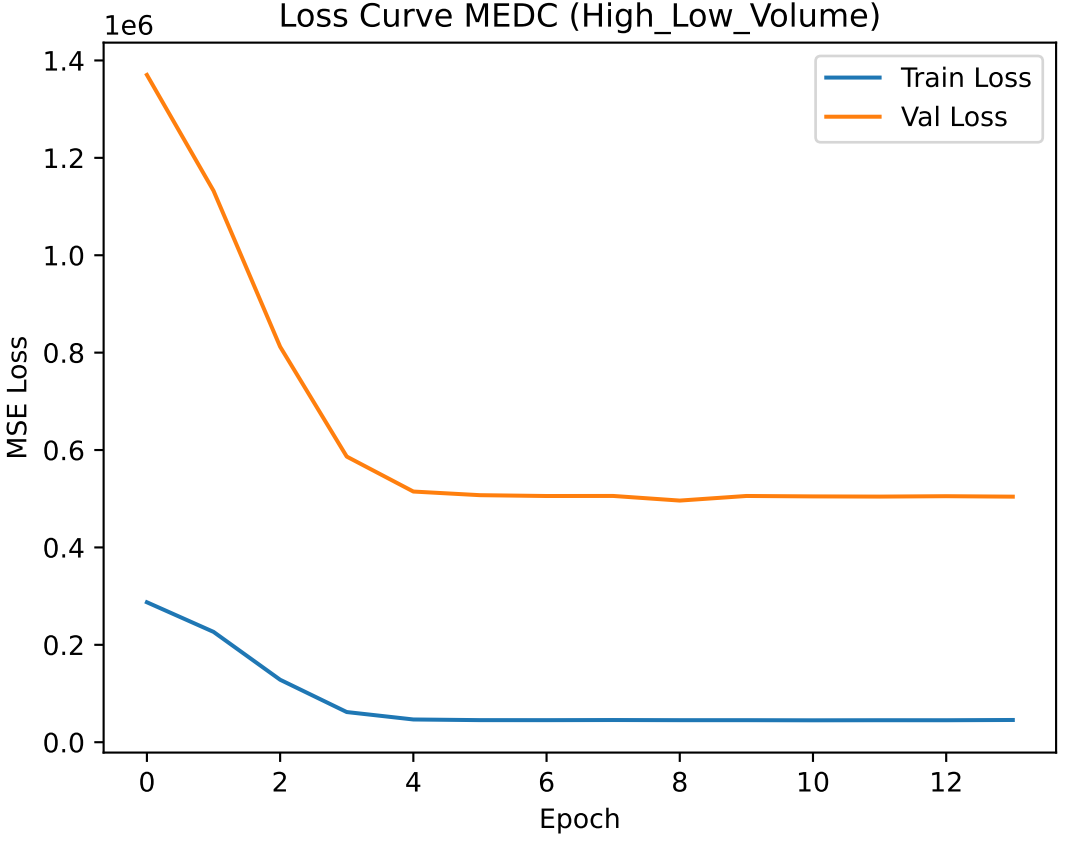

Loss Curve KLBF (High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

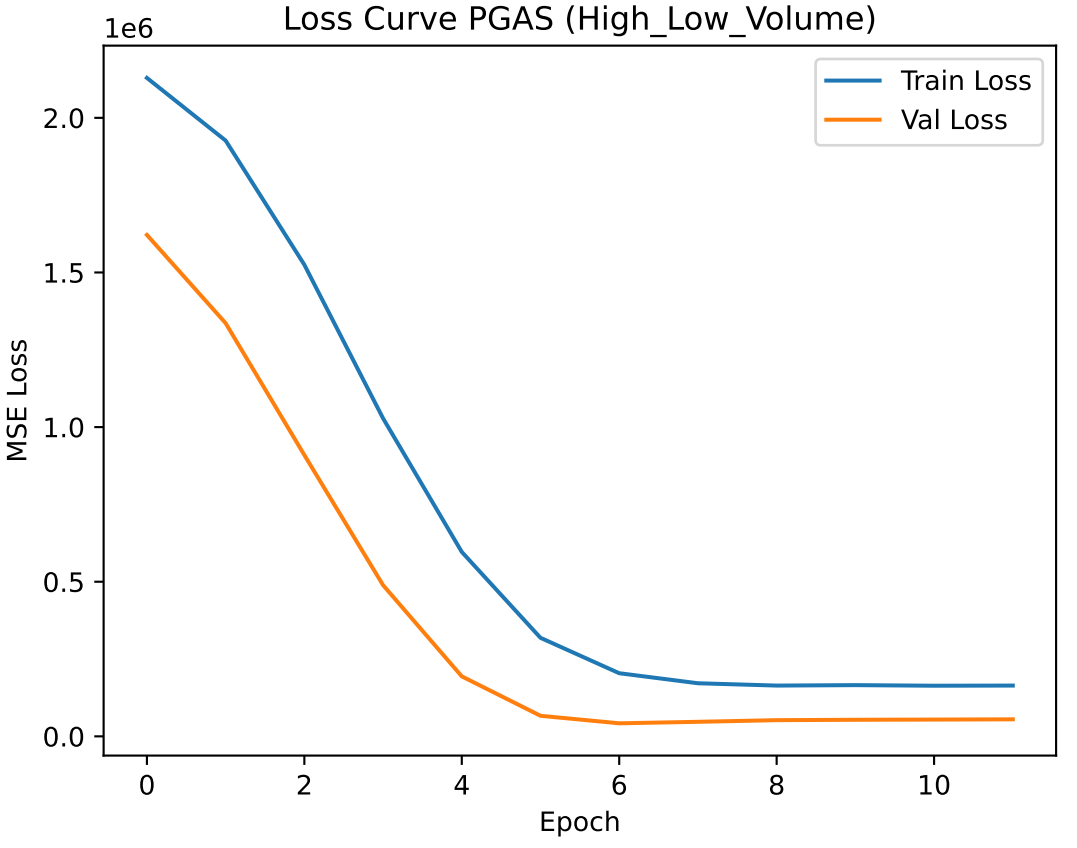

Loss Curve MAPA (High_Low_Volume)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

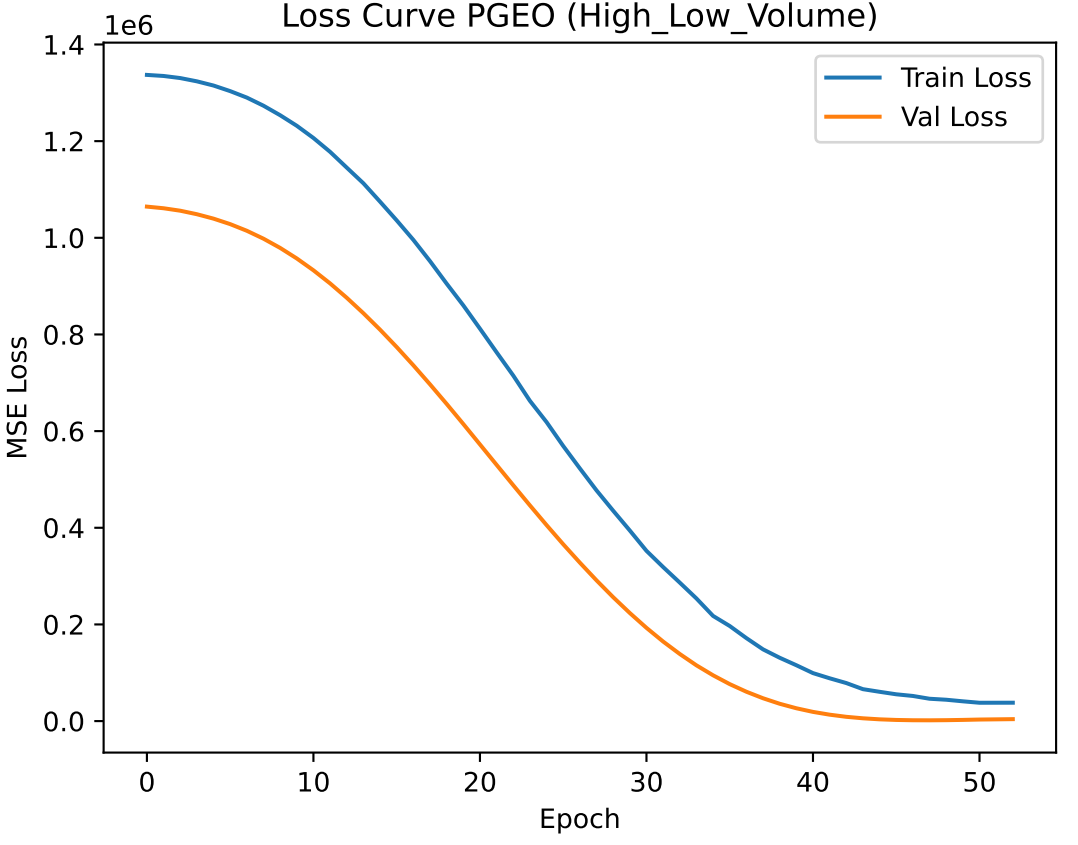

Loss Curve MAPI (High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

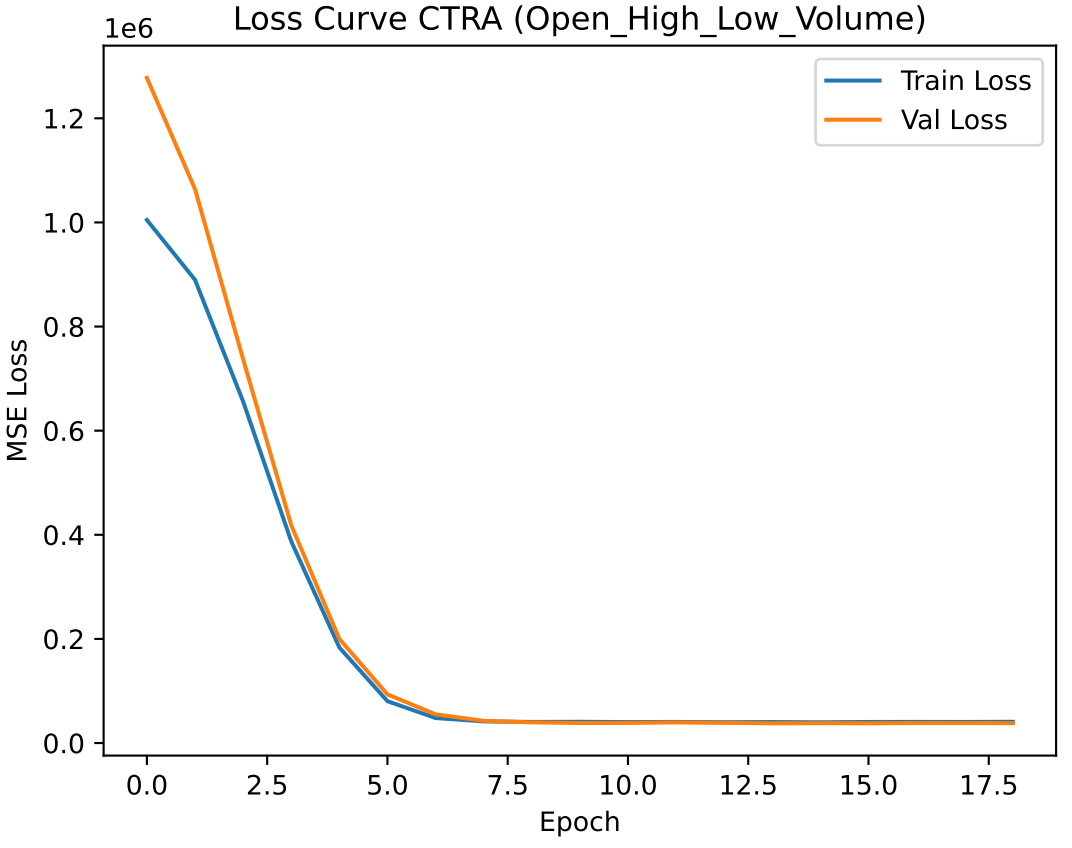

Loss Curve MBMA (High_Low_Volume)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

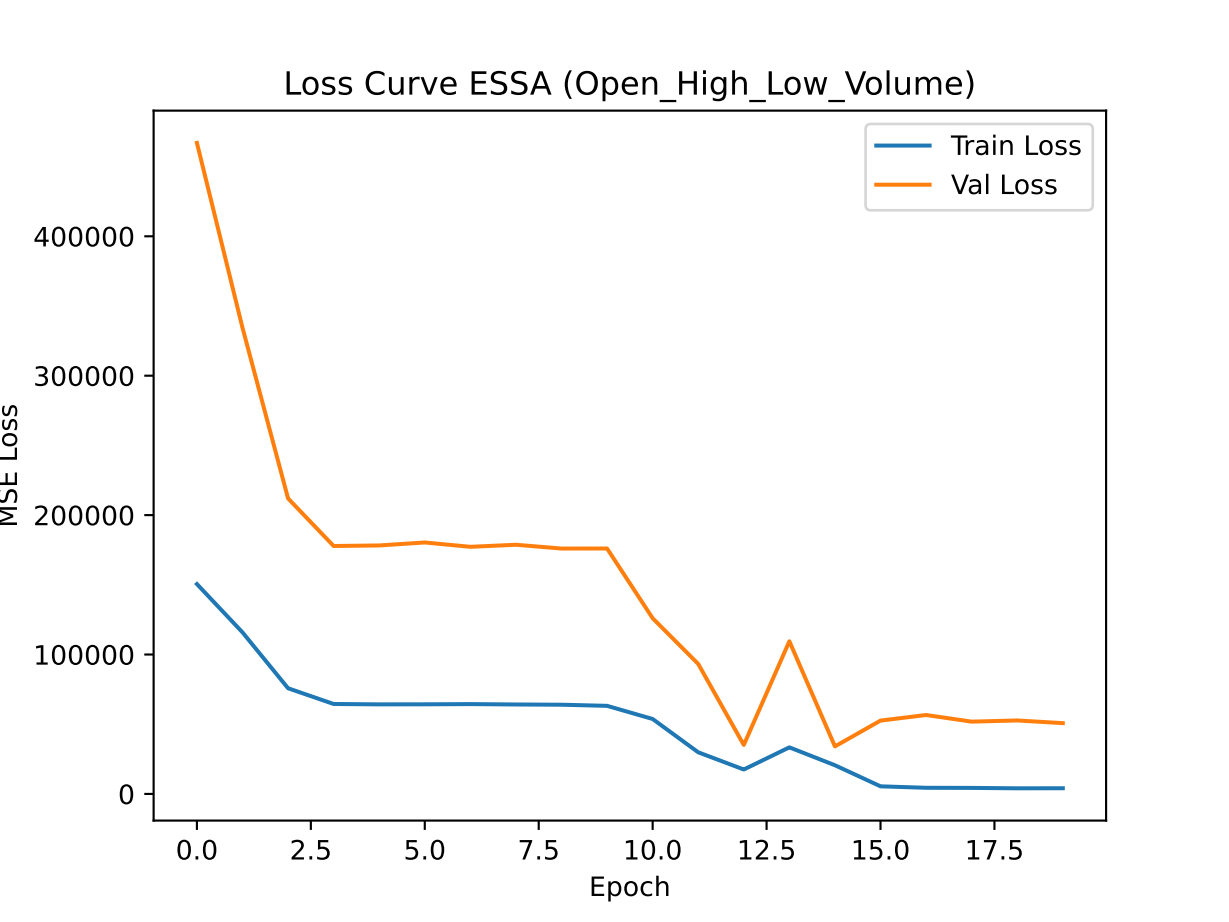

Loss Curve MDKA (High_Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0
2
4
6
8
10
12
14
16
Epoch

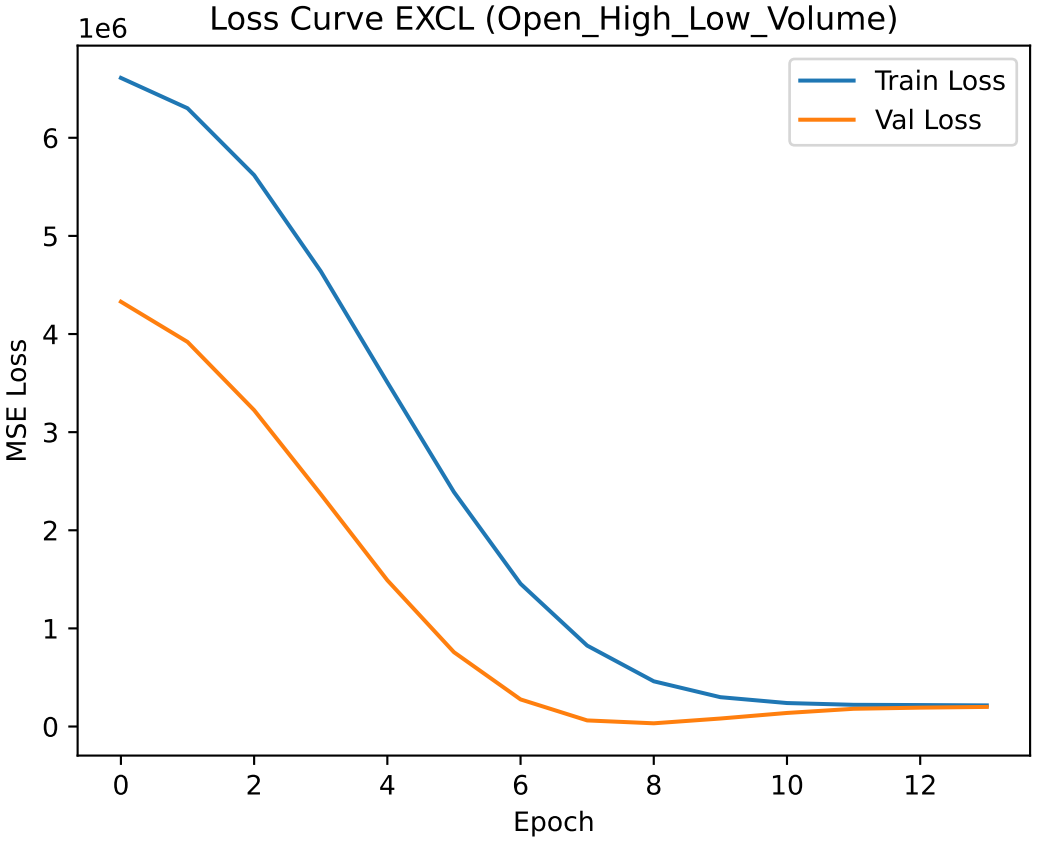

Loss Curve MEDC (High_Low_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
Epoch

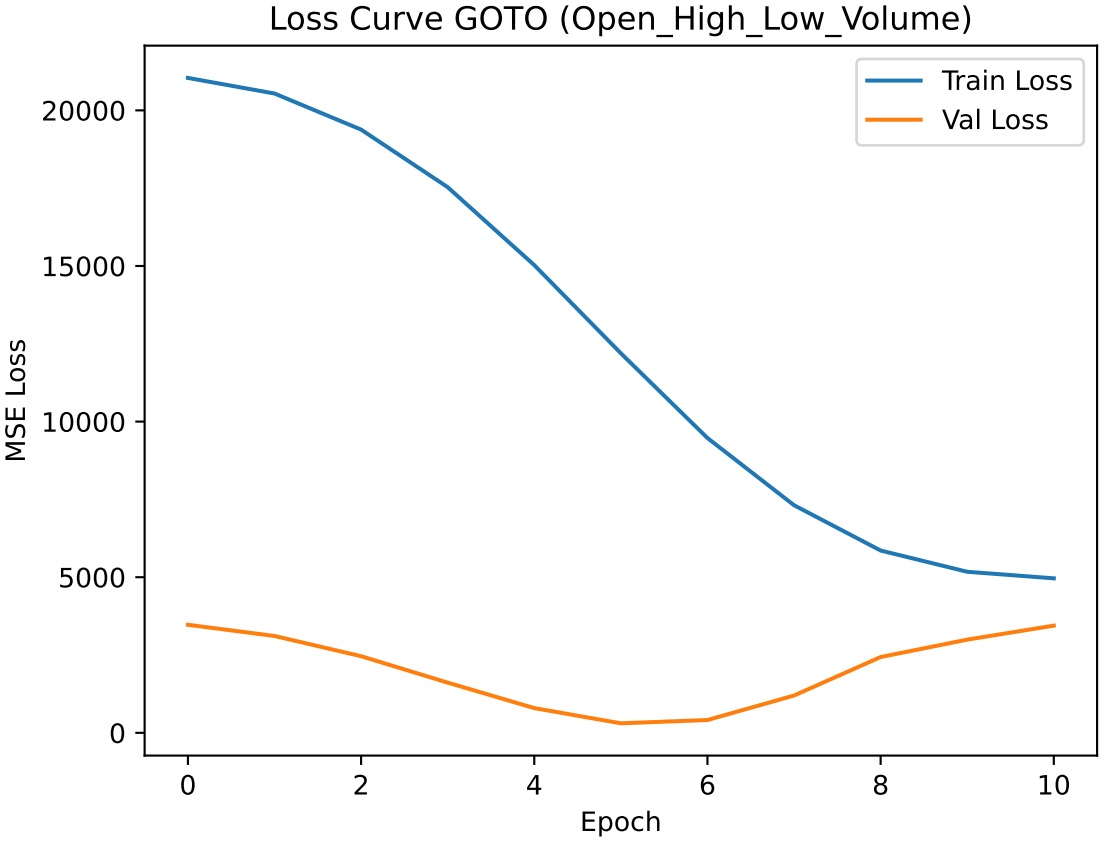

Loss Curve PGAS (High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

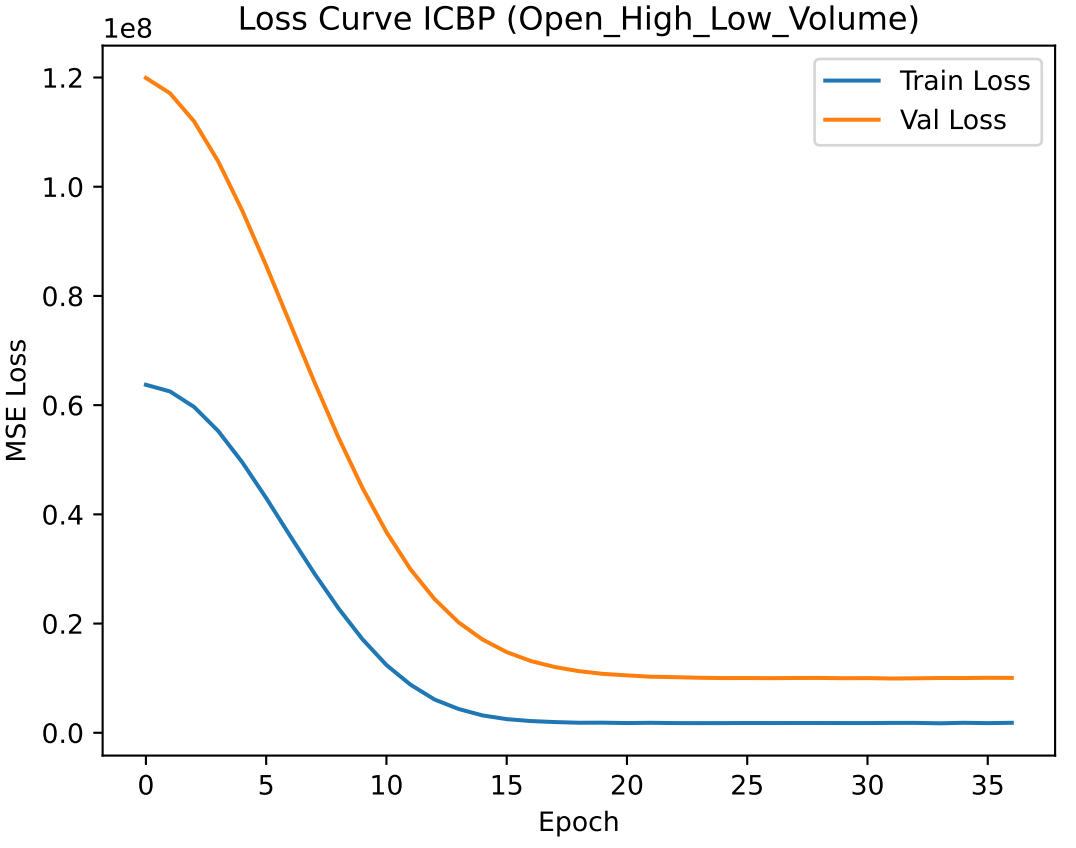

Loss Curve PGEO (High_Low_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

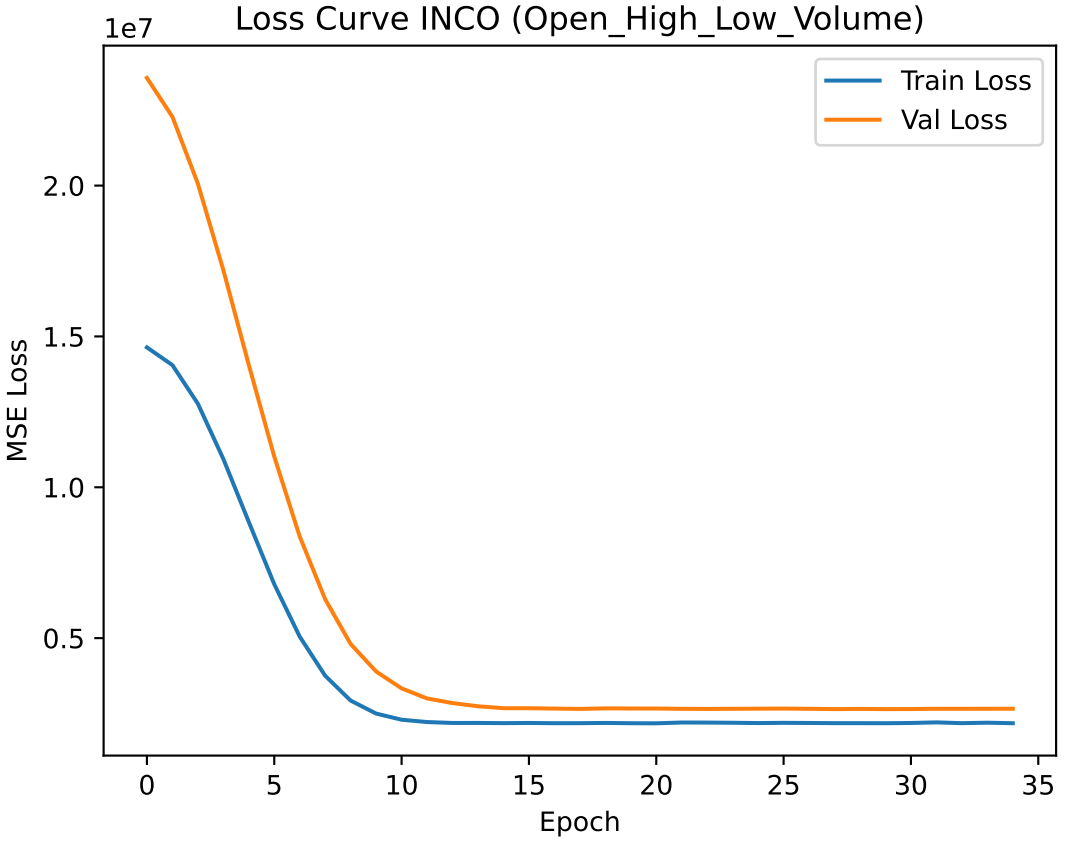

Loss Curve CTRA (Open_High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

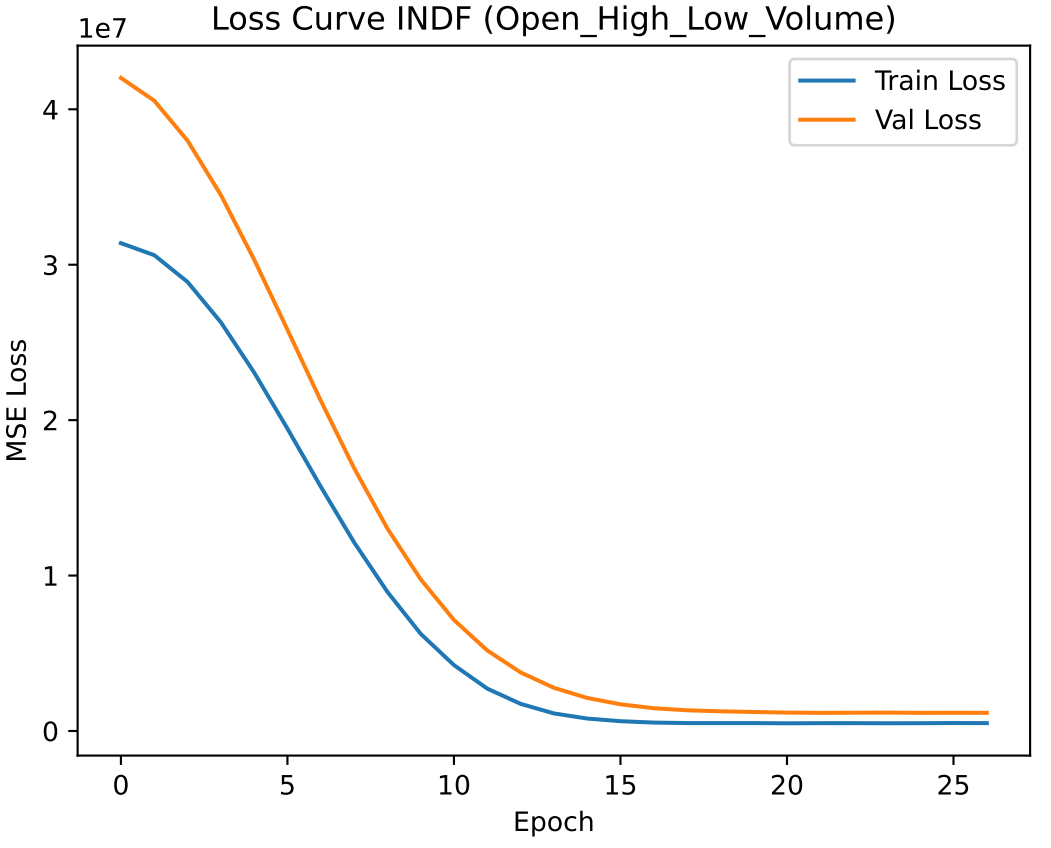

Loss Curve ESSA (Open_High_Low_Volume)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

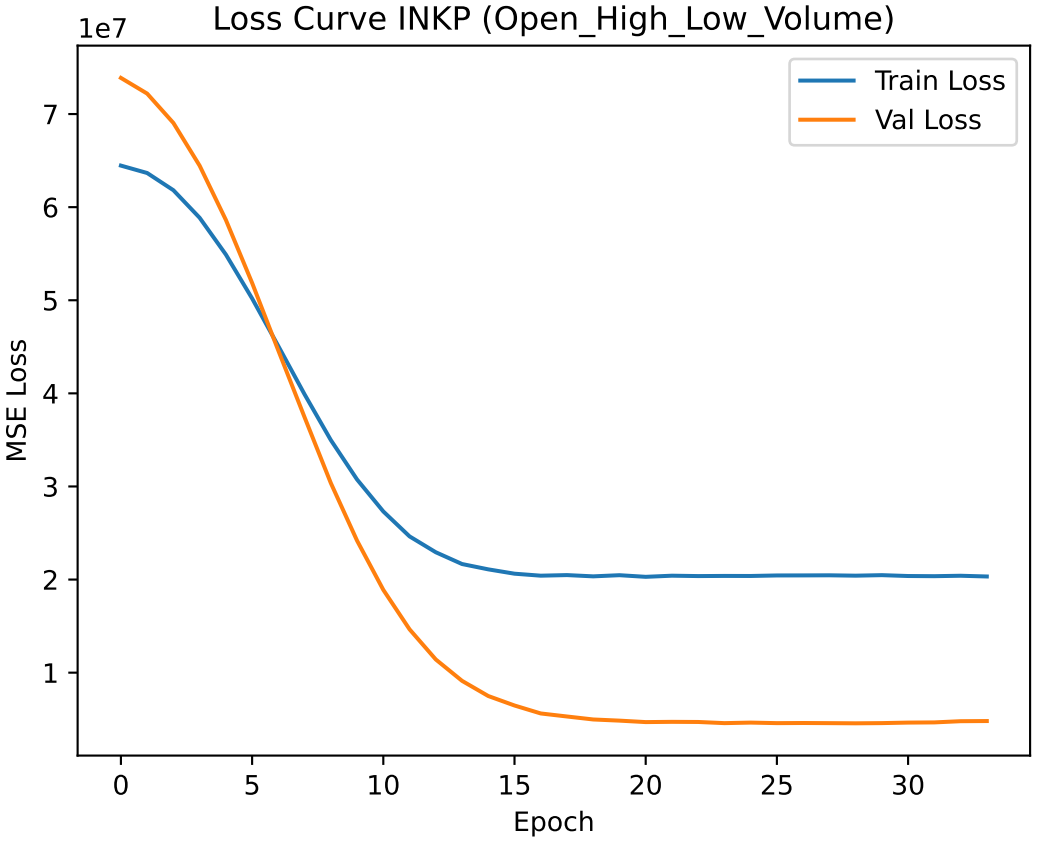

Loss Curve EXCL (Open_High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

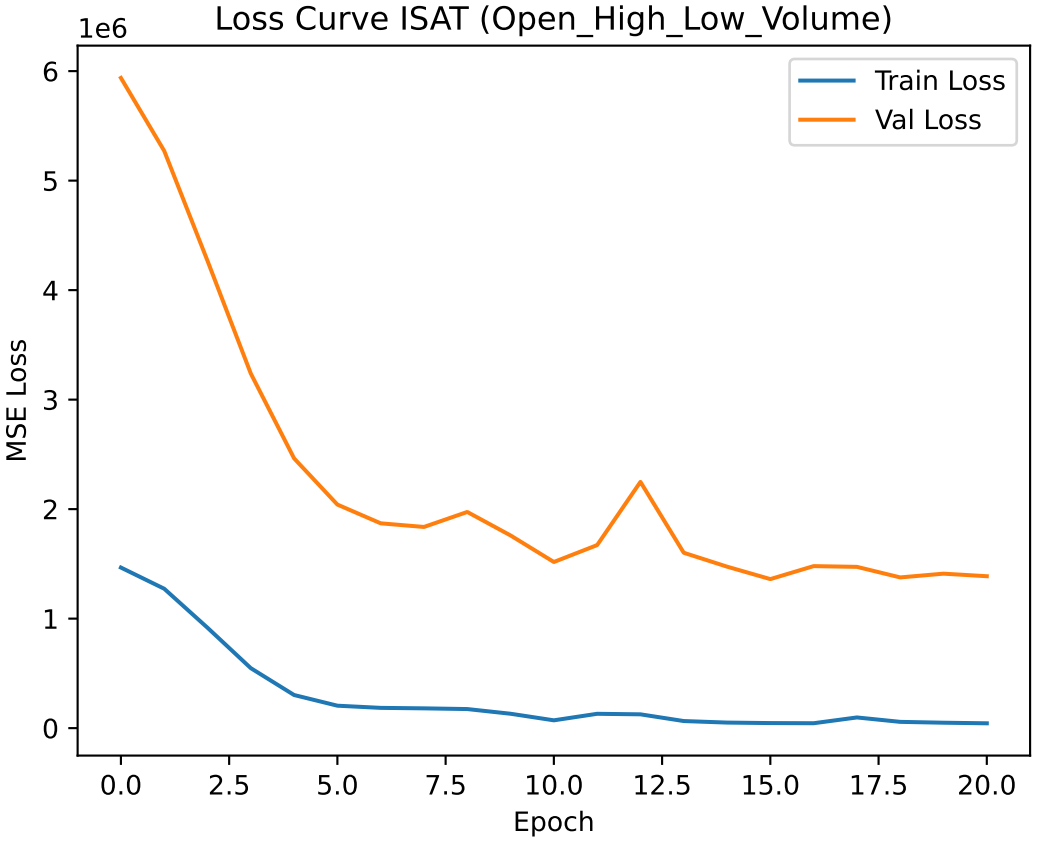

Loss Curve GOTO (Open_High_Low_Volume)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

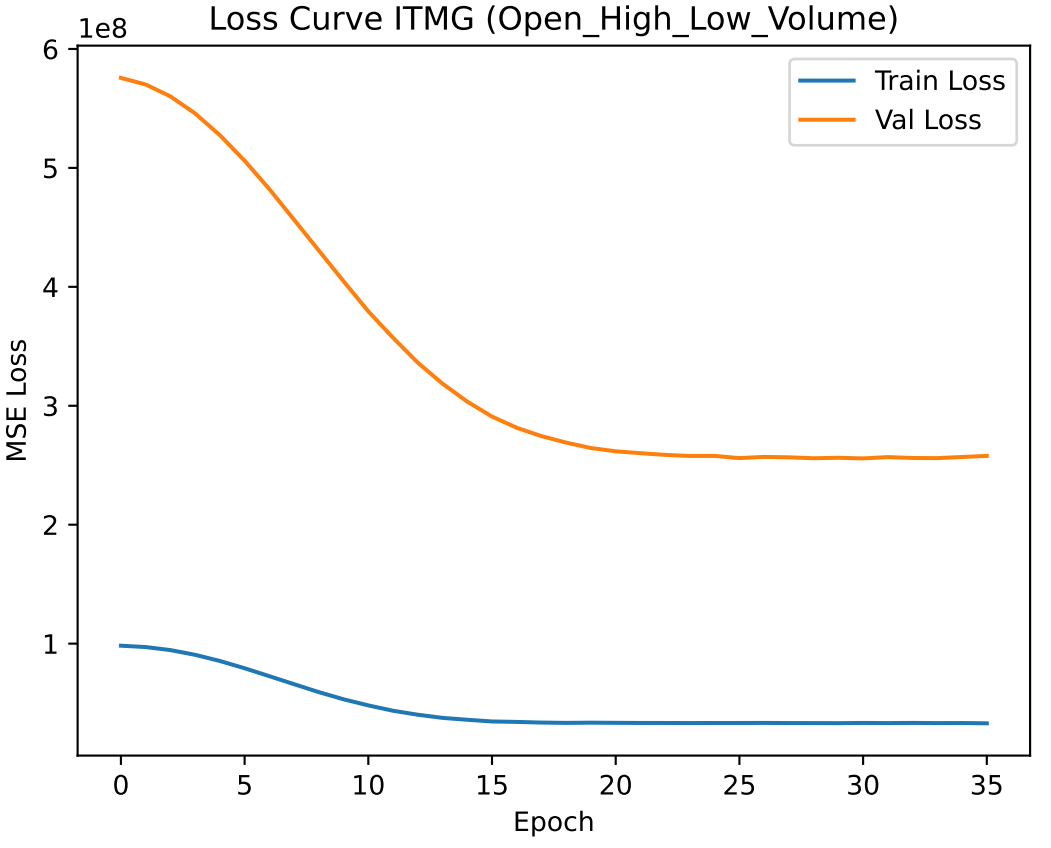

Loss Curve ICBP (Open_High_Low_Volume)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
5
10
15
20
25
30
35
Epoch
Train Loss
Val Loss

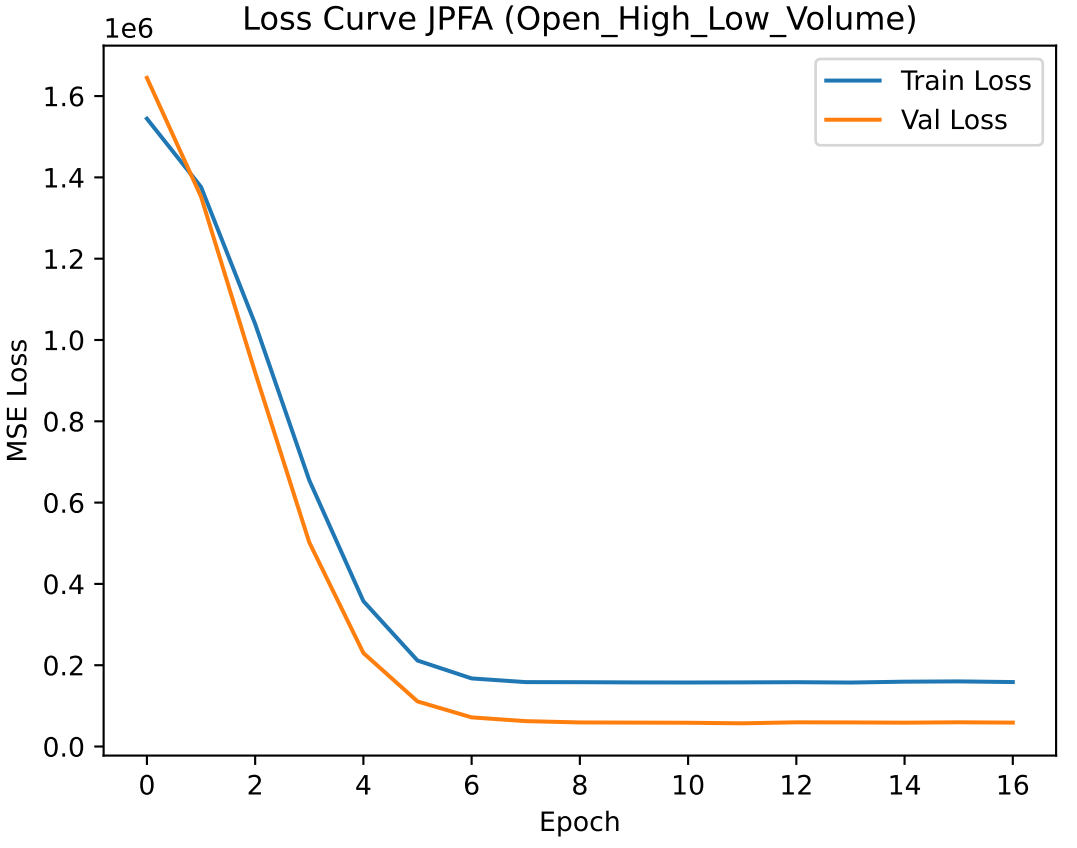

Loss Curve INCO (Open_High_Low_Volume)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
30
35
Epoch

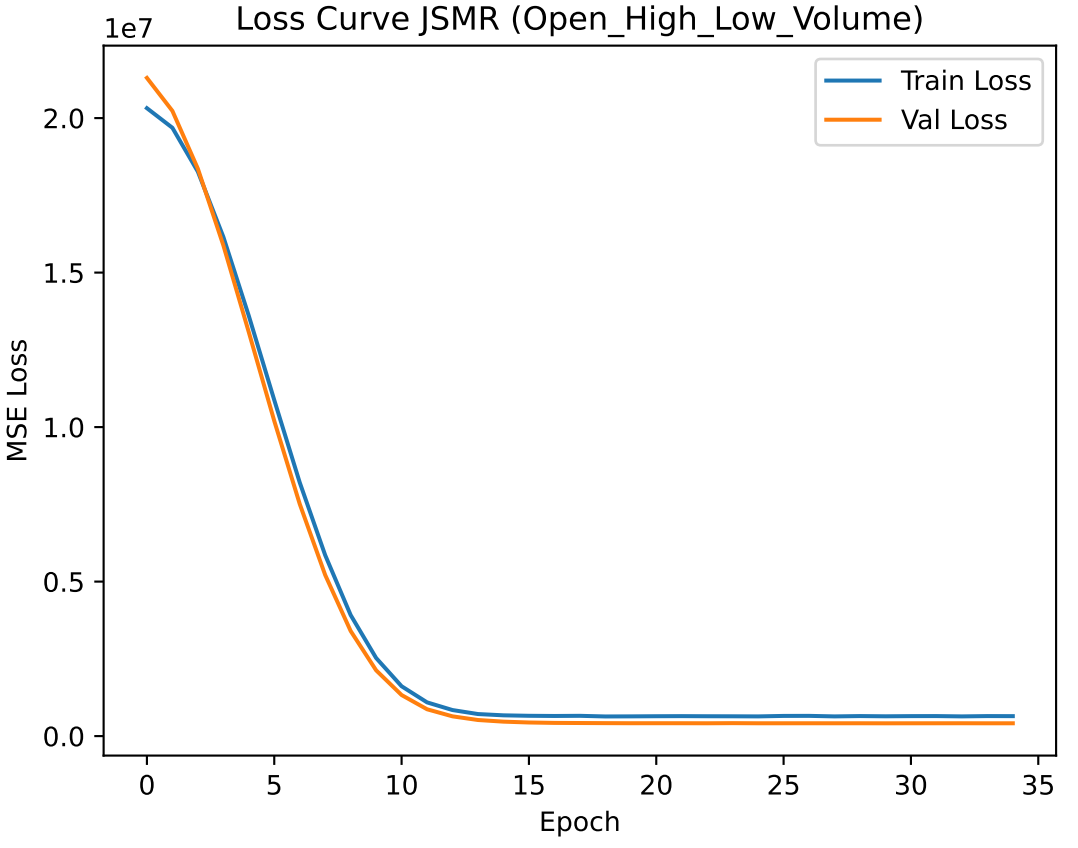

Loss Curve INDF (Open_High_Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25

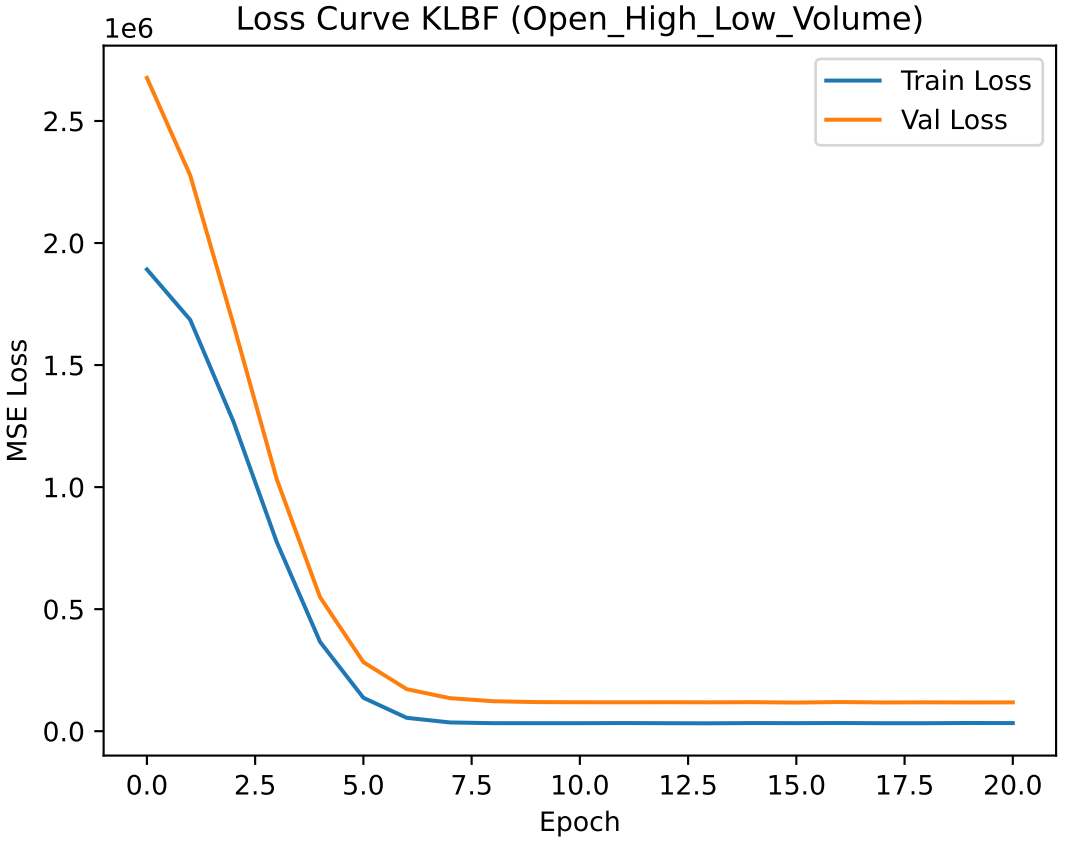

Loss Curve INKP (Open_High_Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
1
2
3
4
5
6
7

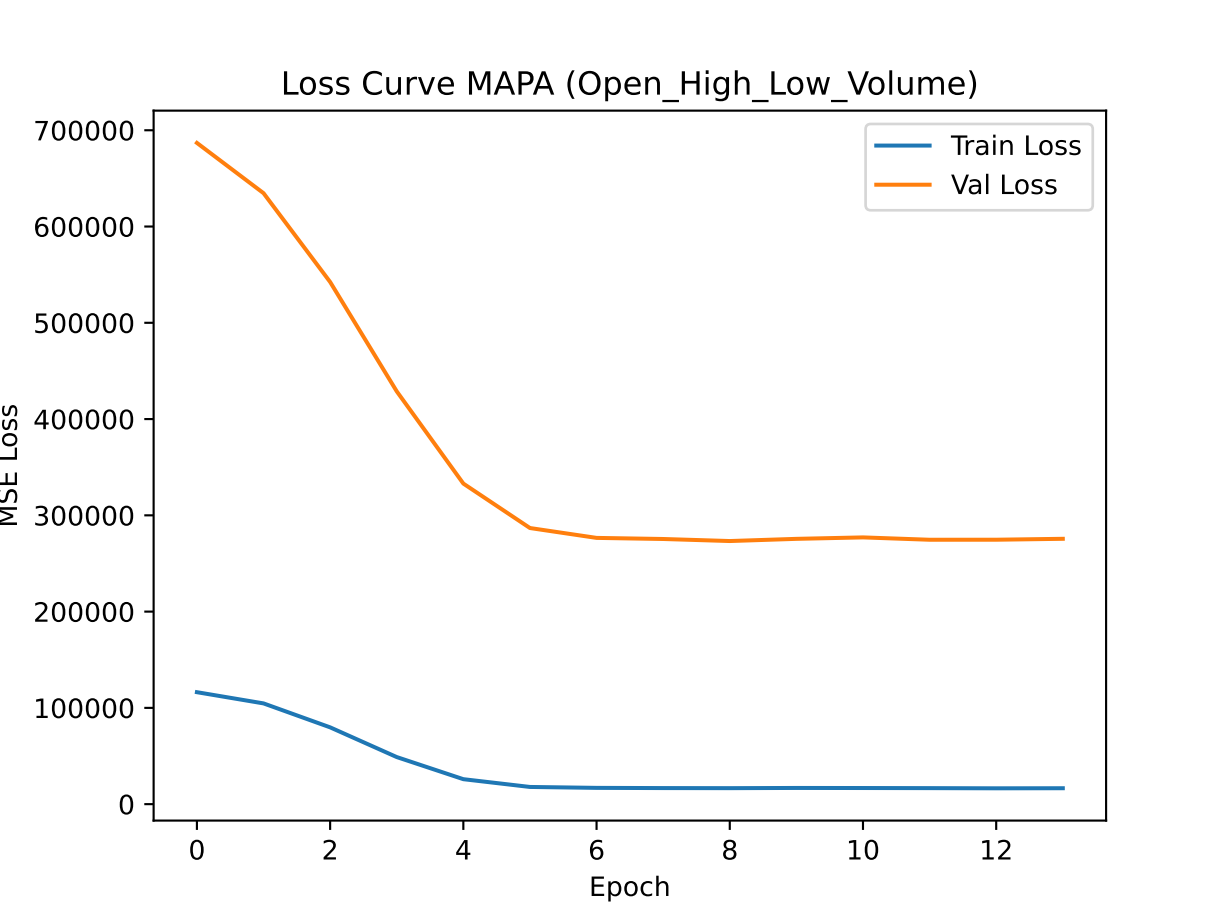

Loss Curve ISAT (Open_High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0

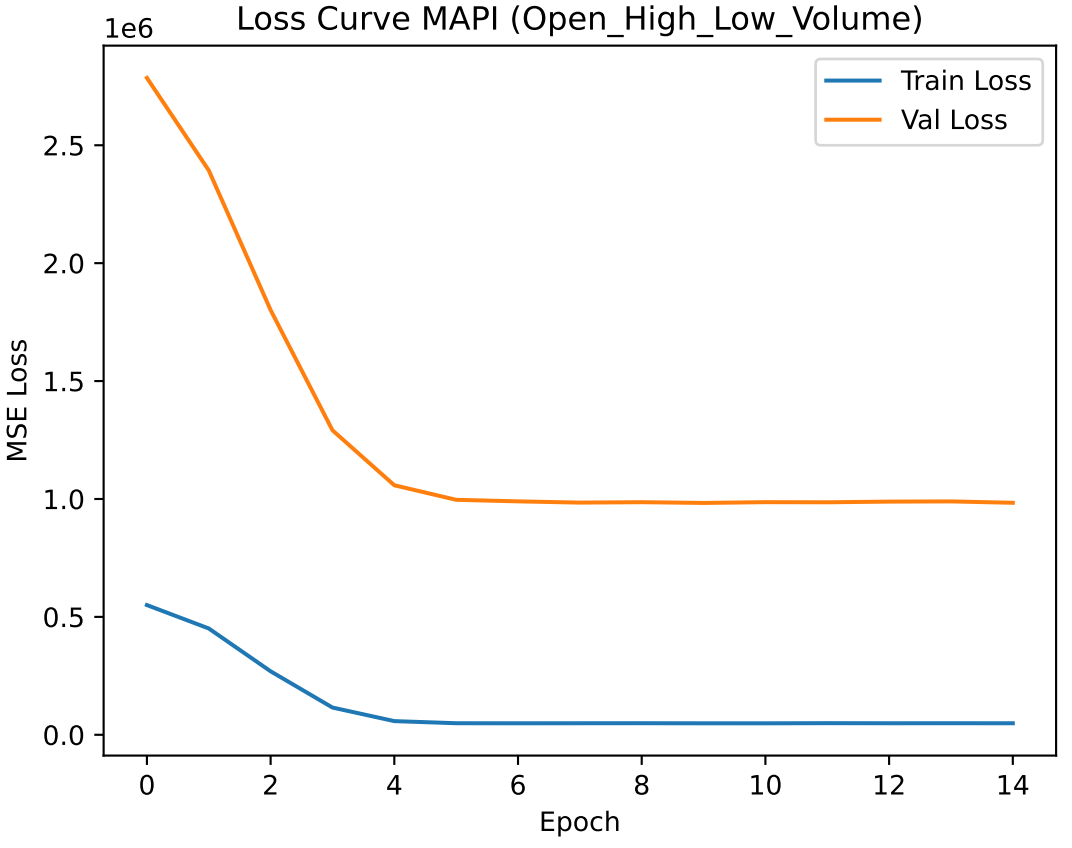

Loss Curve ITMG (Open_High_Low_Volume)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

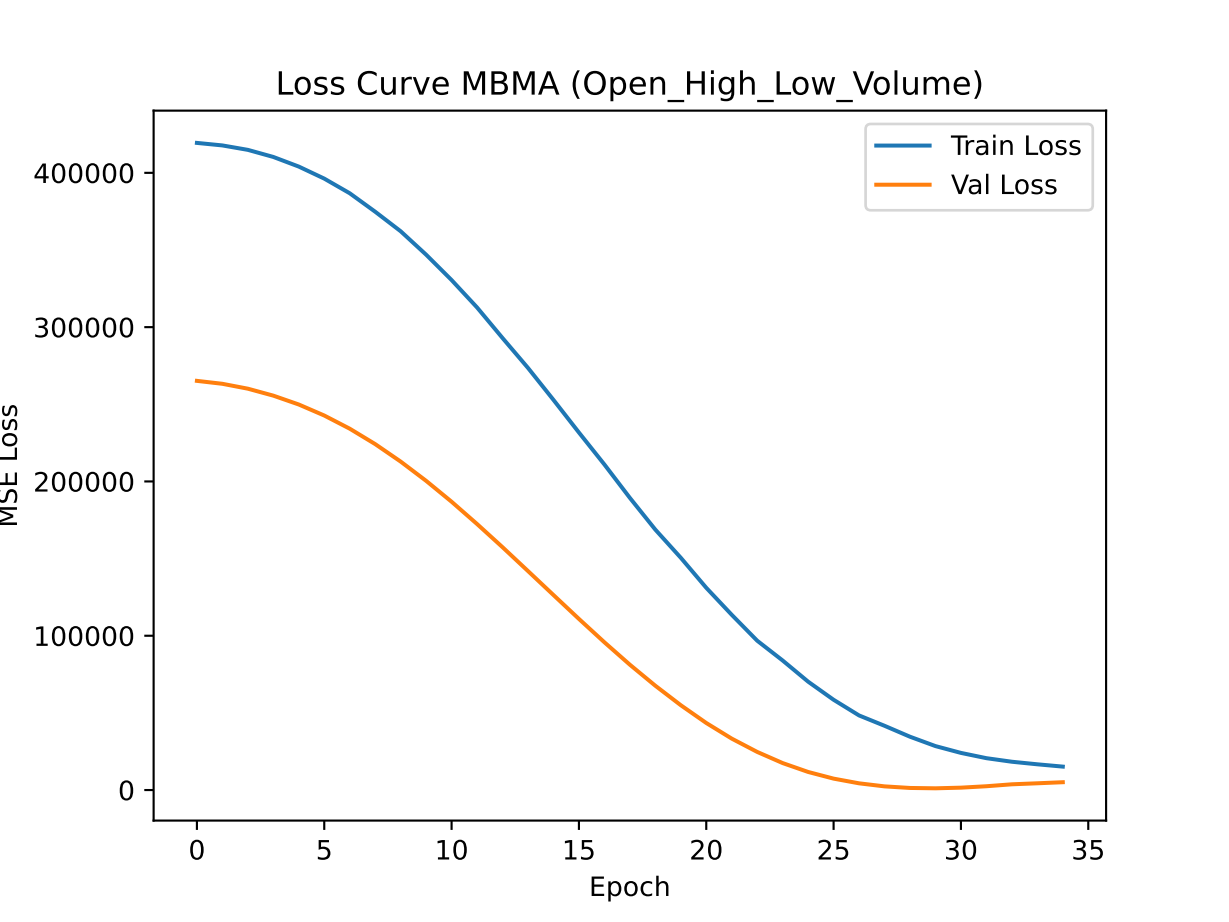

Loss Curve JPFA (Open_High_Low_Volume)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14
16

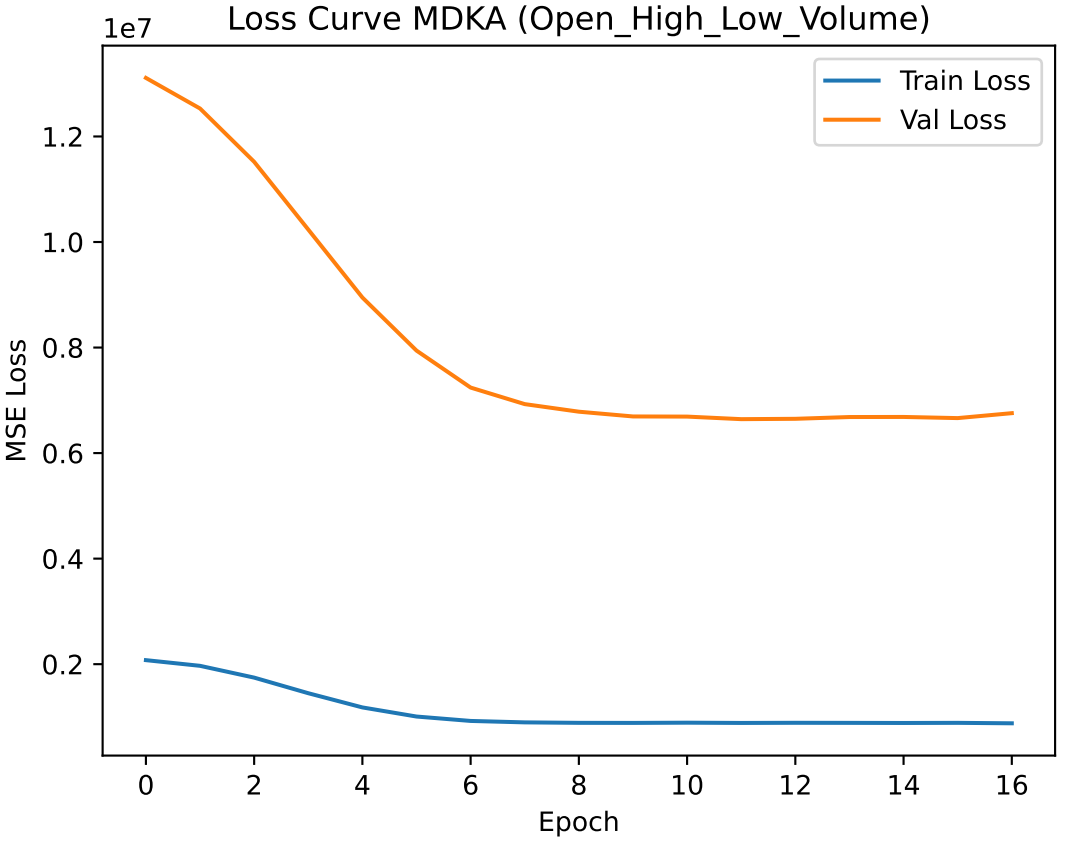

Loss Curve JSMR (Open_High_Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.5
1.0
1.5
2.0
0
5
10
15
20
25
30
35

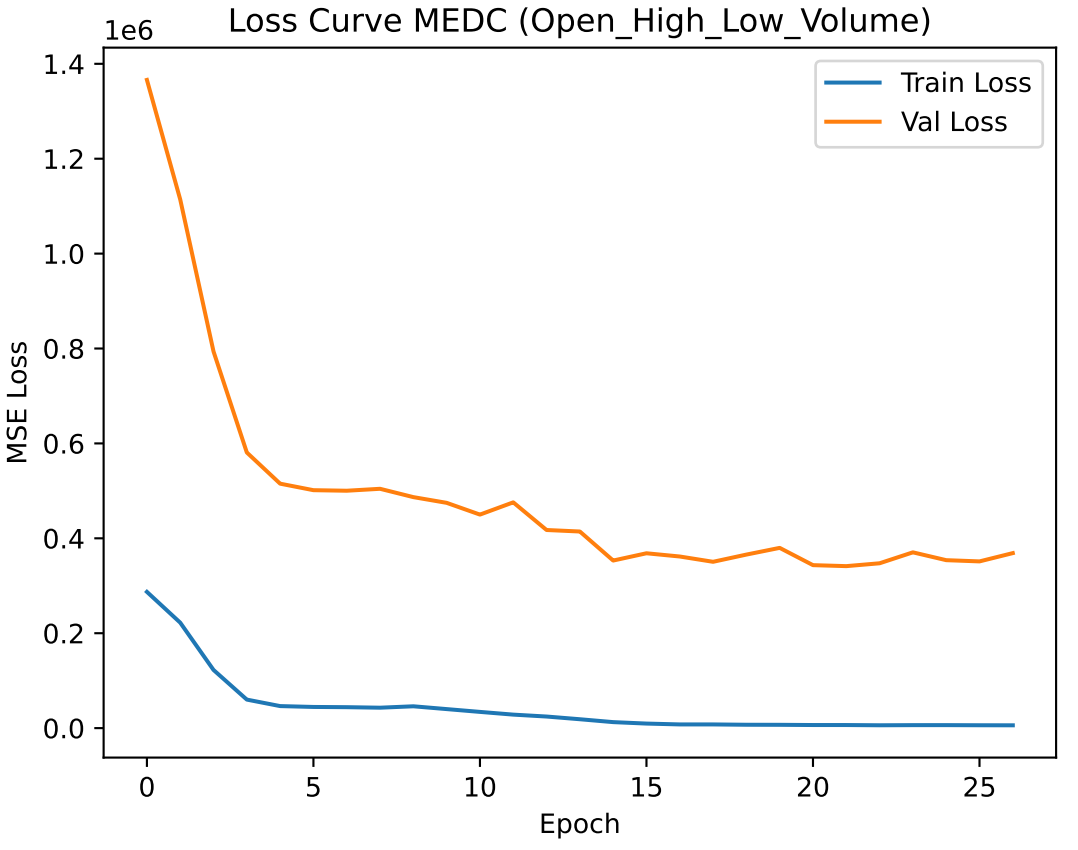

Loss Curve KLBF (Open_High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

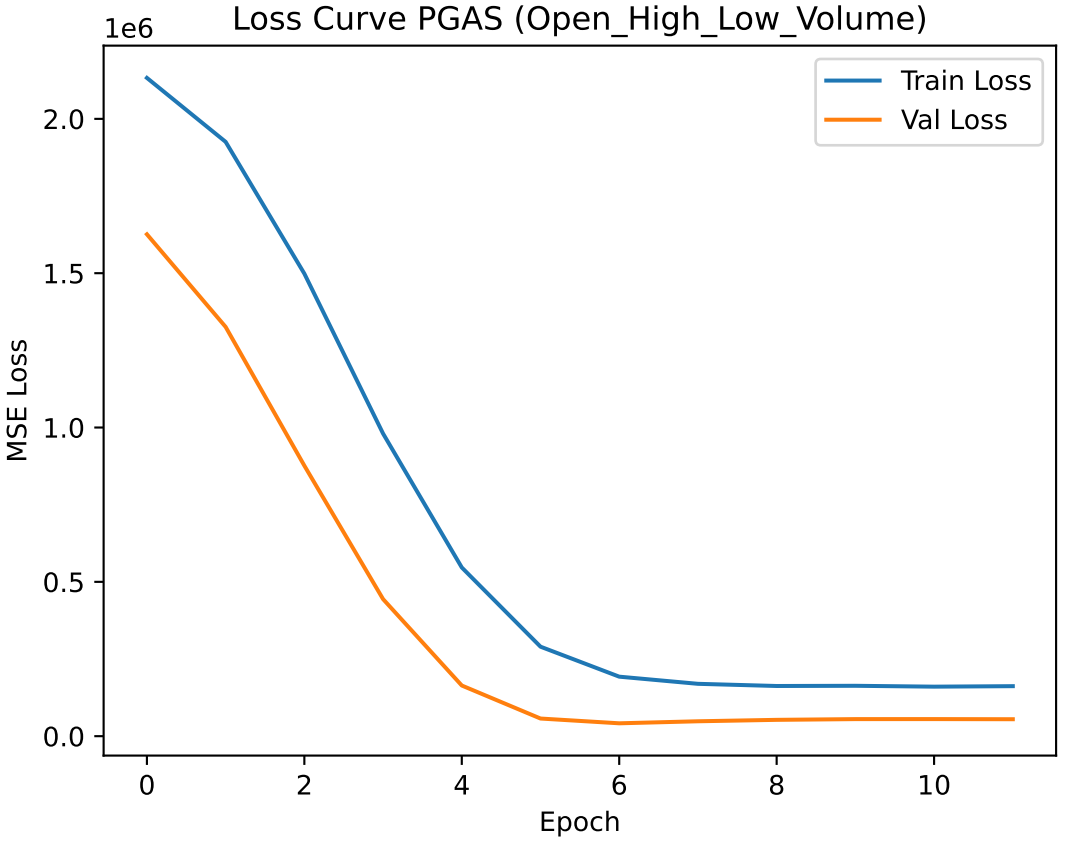

Loss Curve MAPA (Open_High_Low_Volume)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12

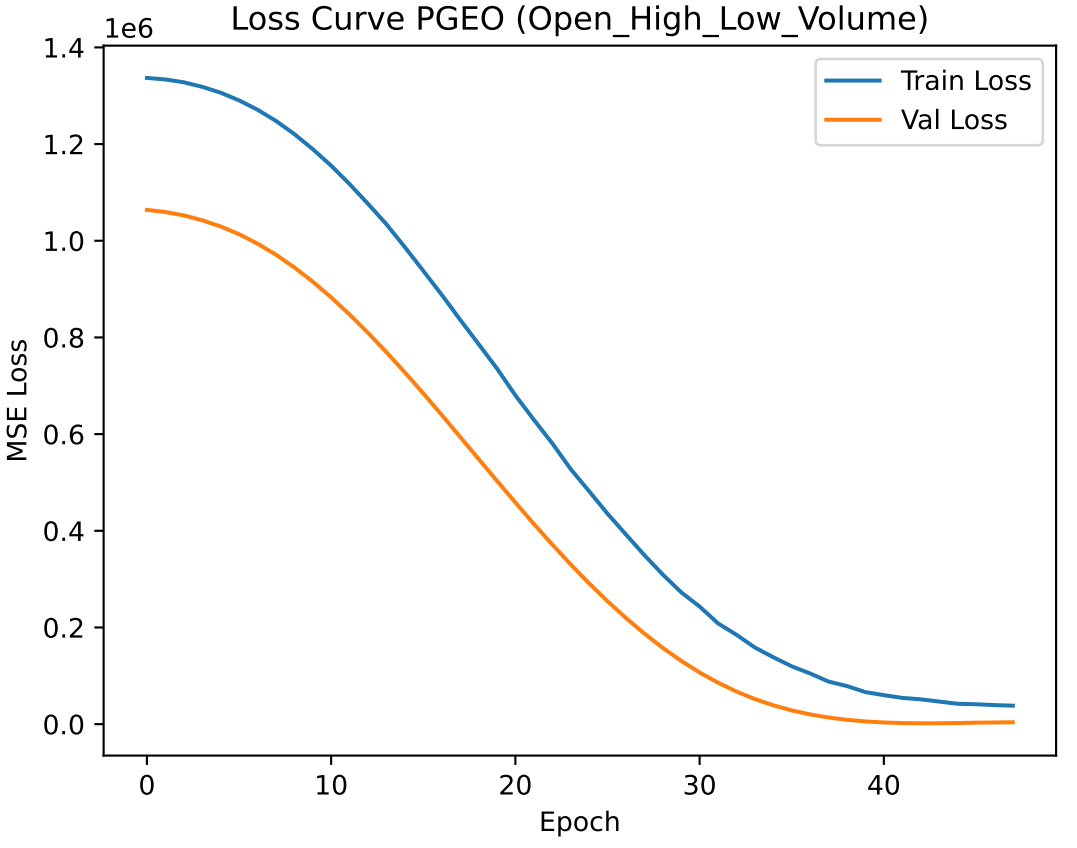

Loss Curve MAPI (Open_High_Low_Volume)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

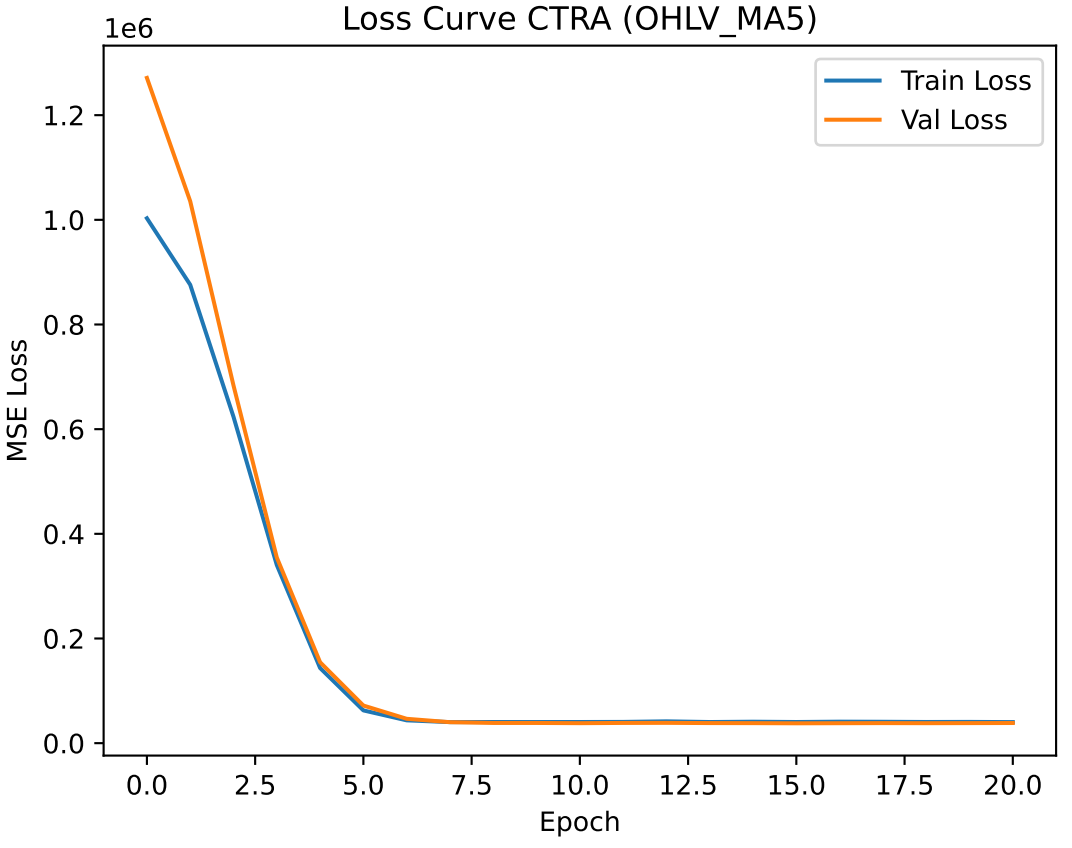

Loss Curve MBMA (Open_High_Low_Volume)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

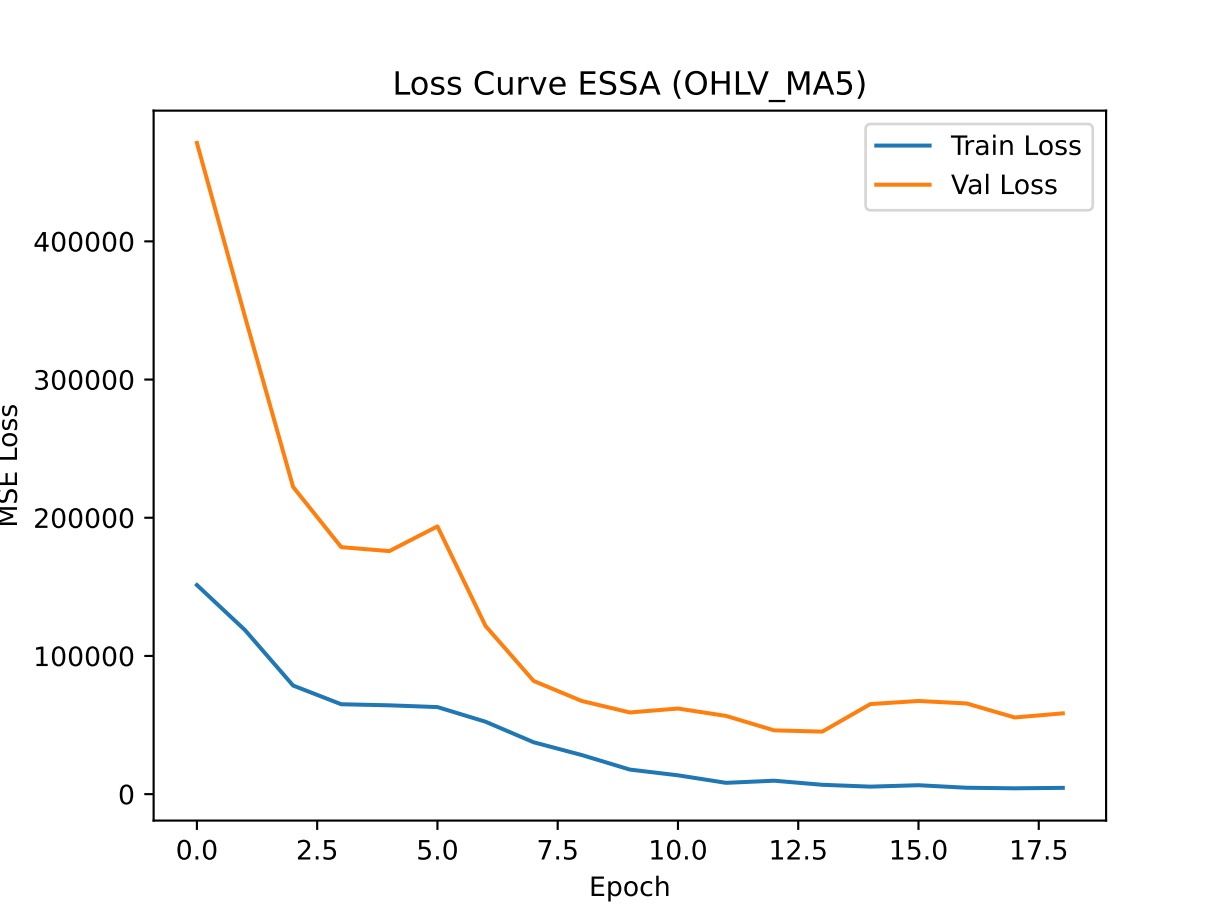

Loss Curve MDKA (Open_High_Low_Volume)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0
2
4
6
8
10
12
14
16
Epoch

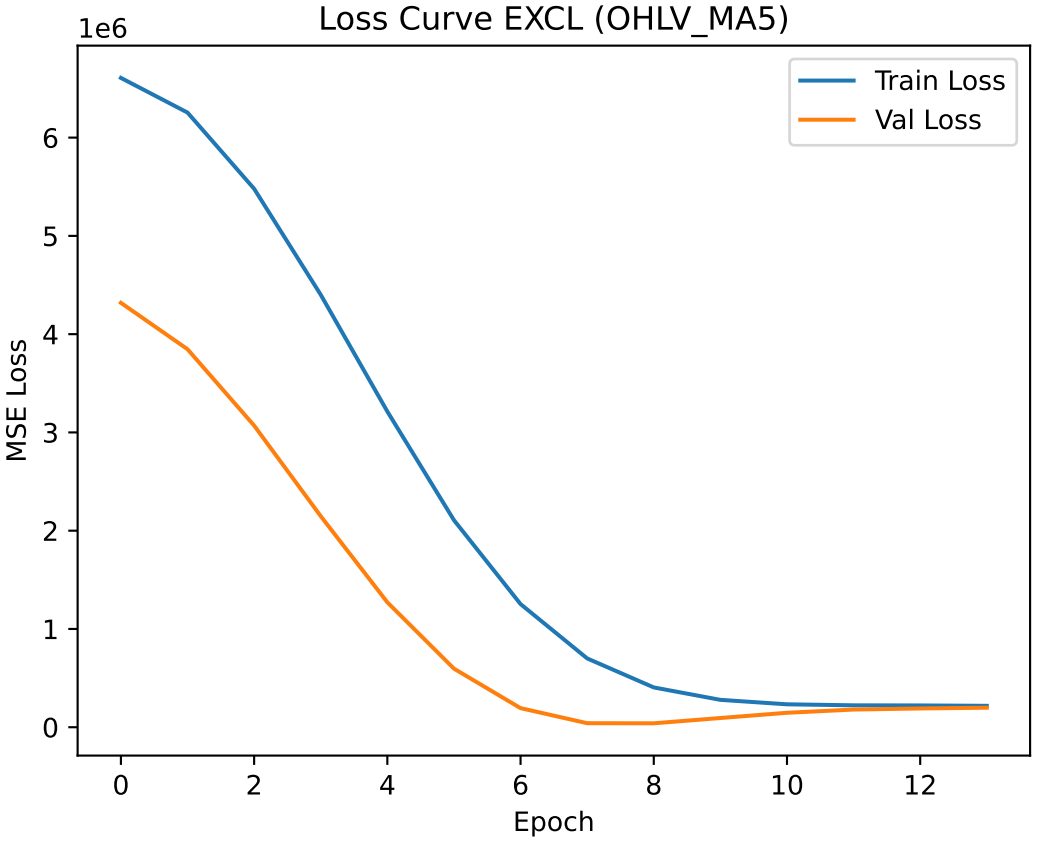

Loss Curve MEDC (Open_High_Low_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
5
10
15
20
25
Epoch
Train Loss
Val Loss

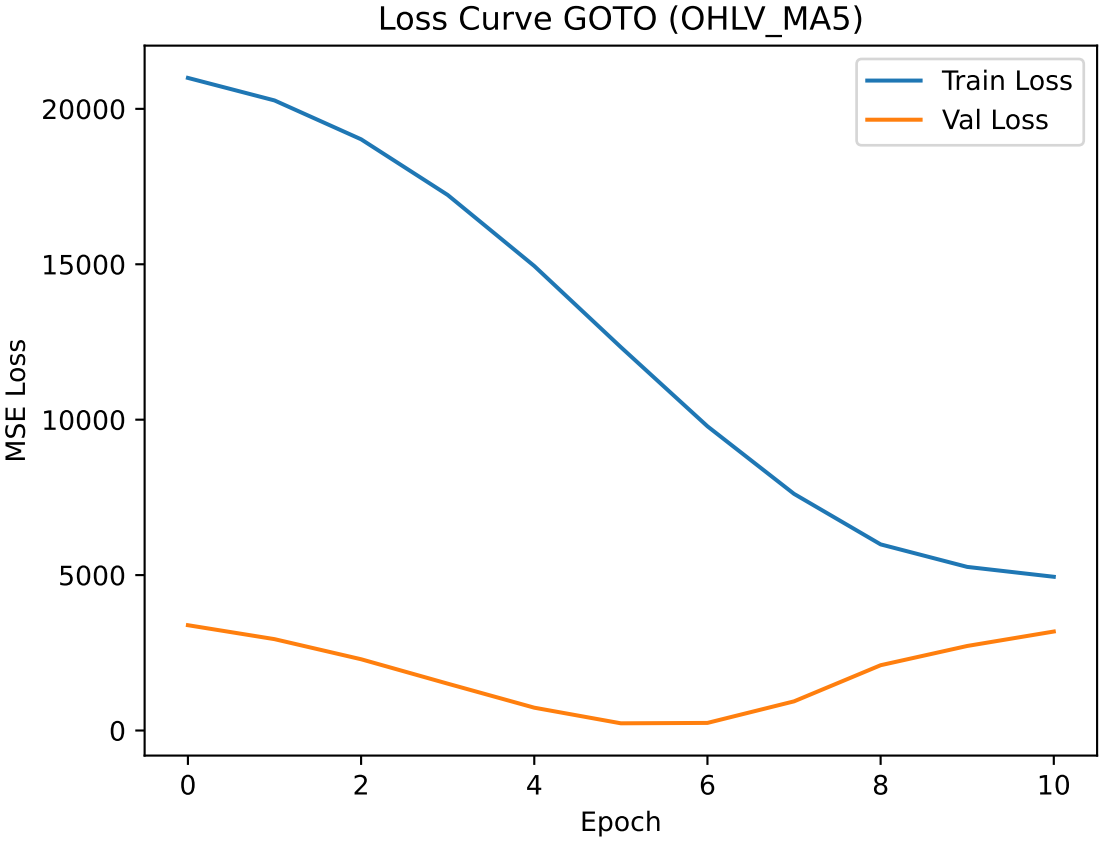

Loss Curve PGAS (Open_High_Low_Volume)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
Epoch
Train Loss
Val Loss

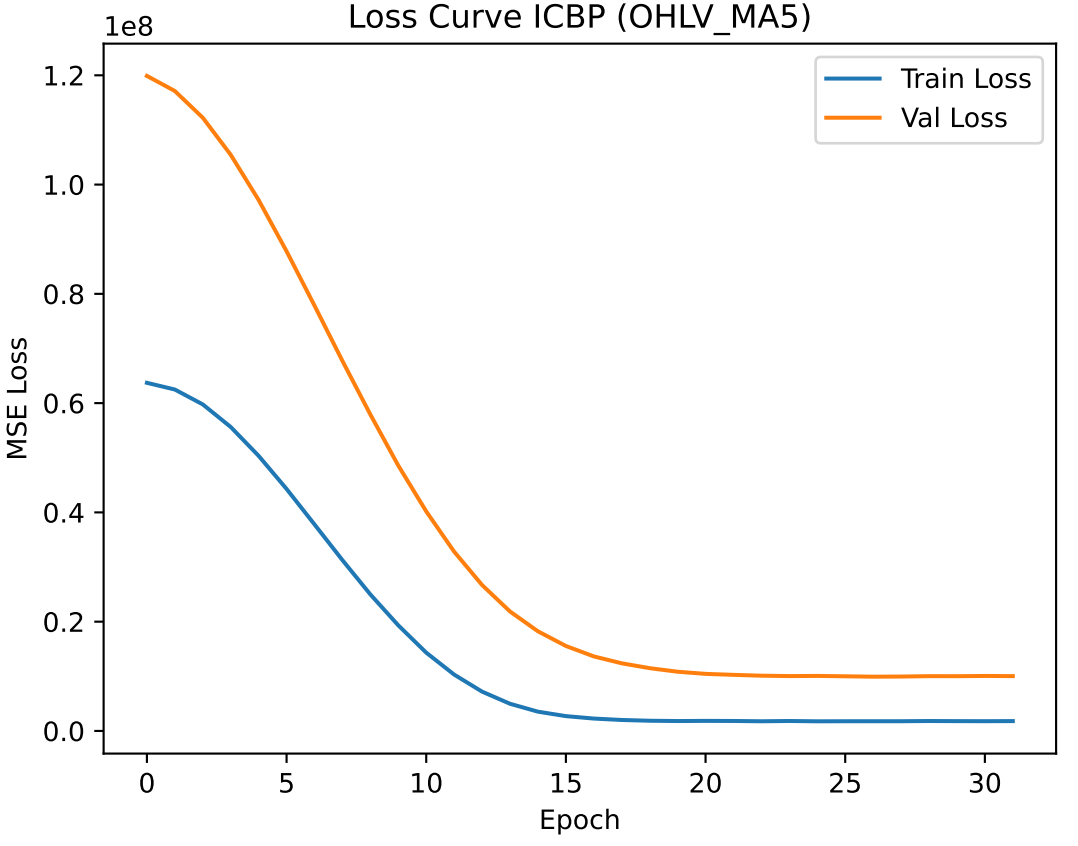

Loss Curve PGEO (Open_High_Low_Volume)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
Epoch

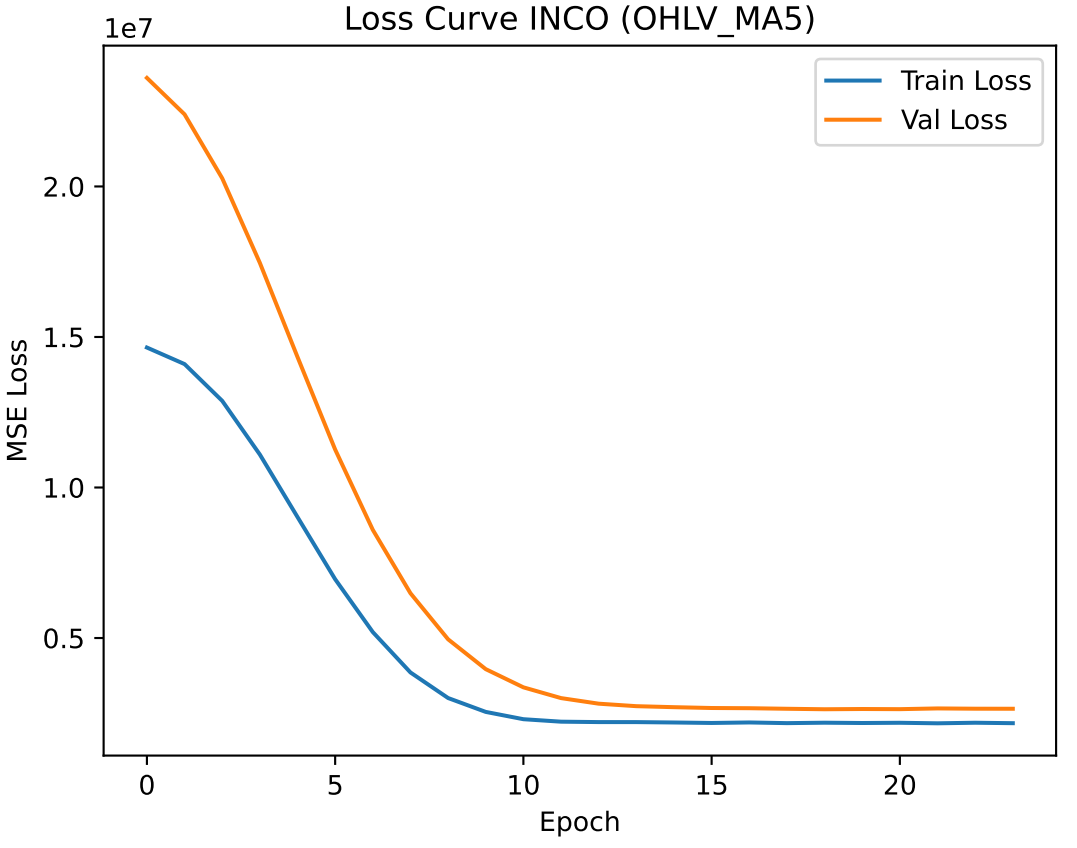

Loss Curve CTRA (OHLV_MA5)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0

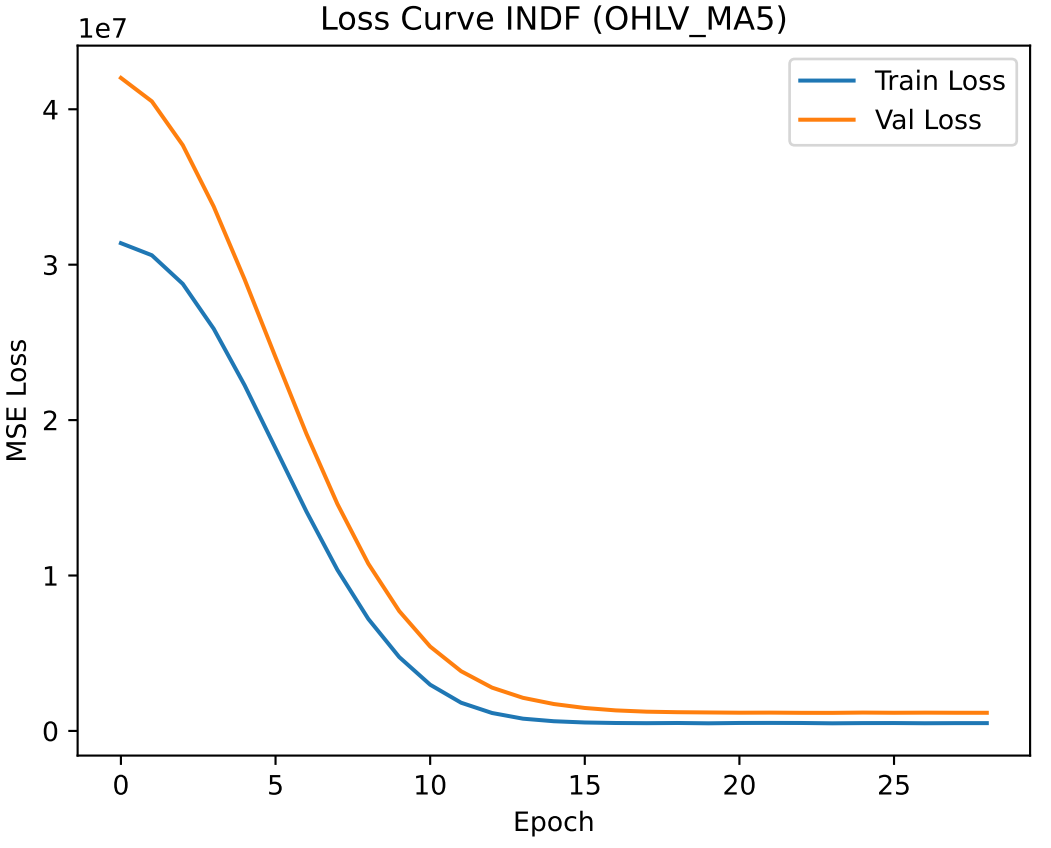

Loss Curve ESSA (OHLV_MA5)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

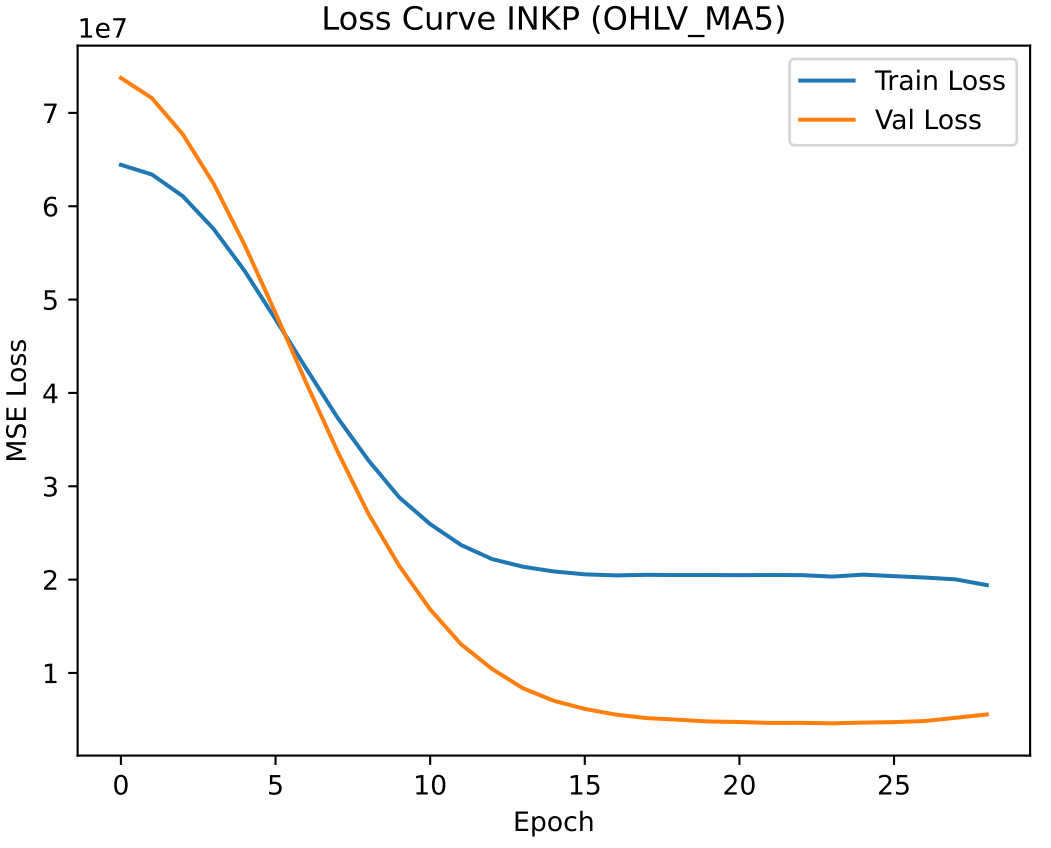

Loss Curve EXCL (OHLV_MA5)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

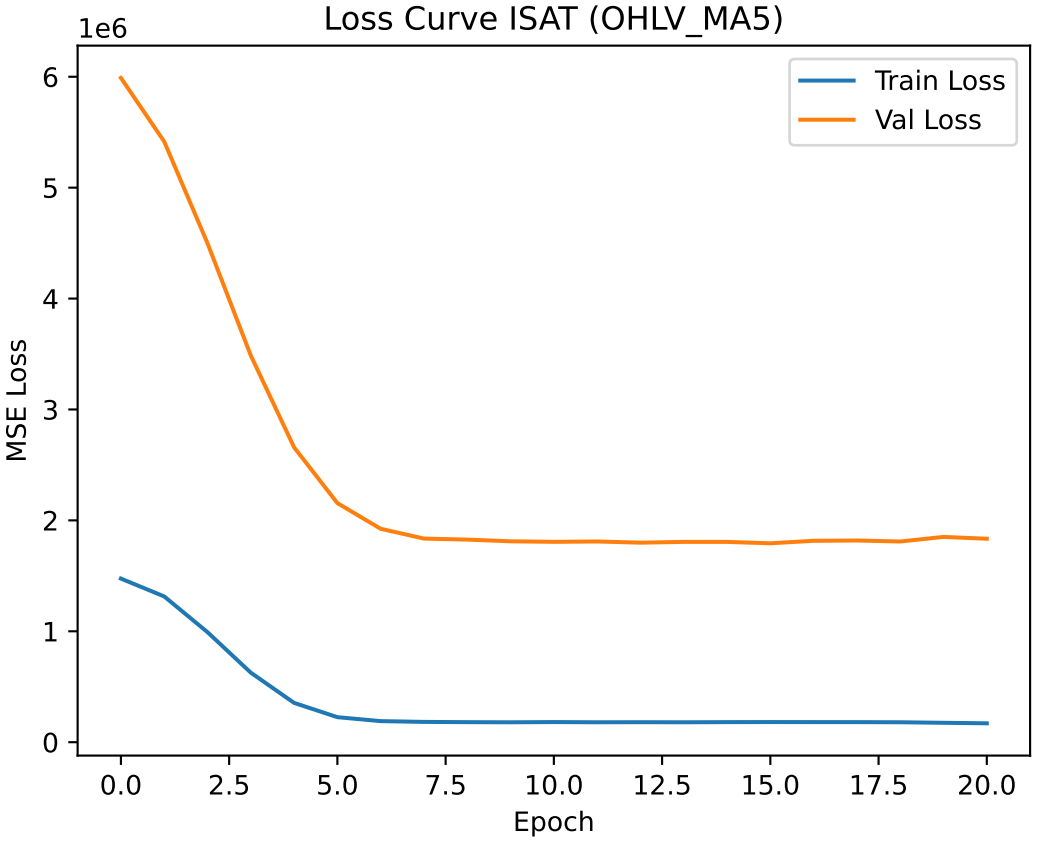

Loss Curve GOTO (OHLV_MA5)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

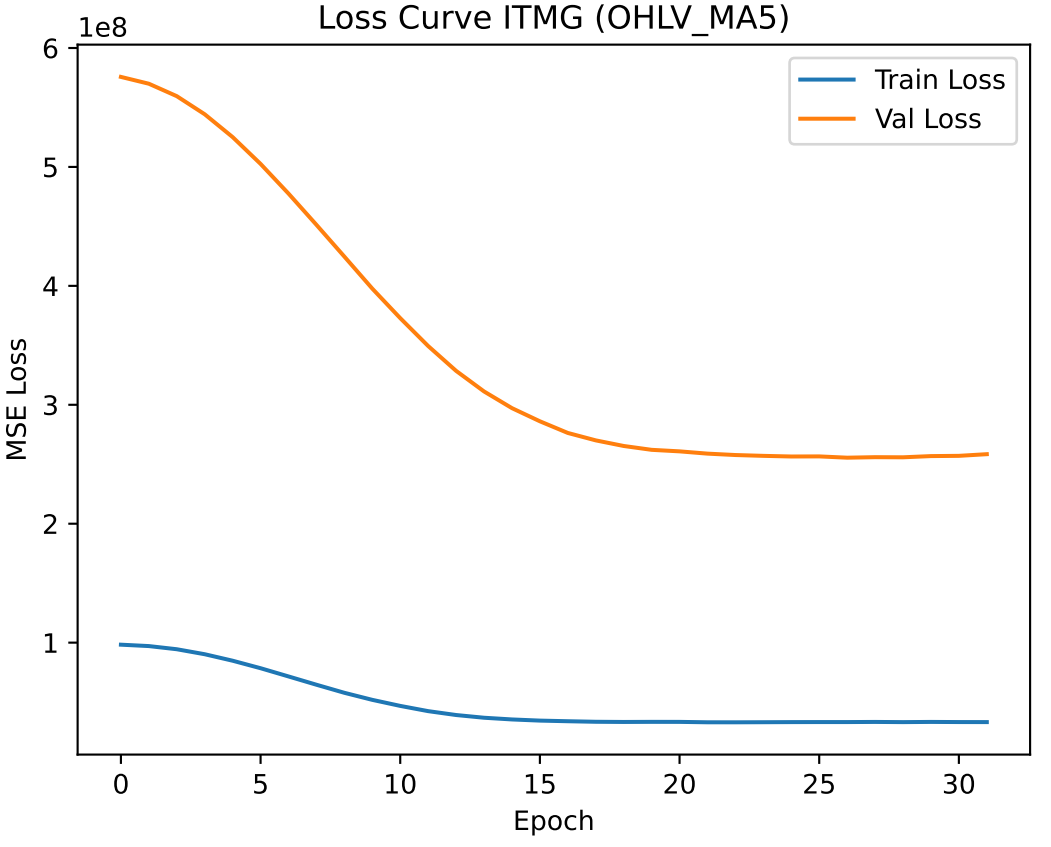

Loss Curve ICBP (OHLV_MA5)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

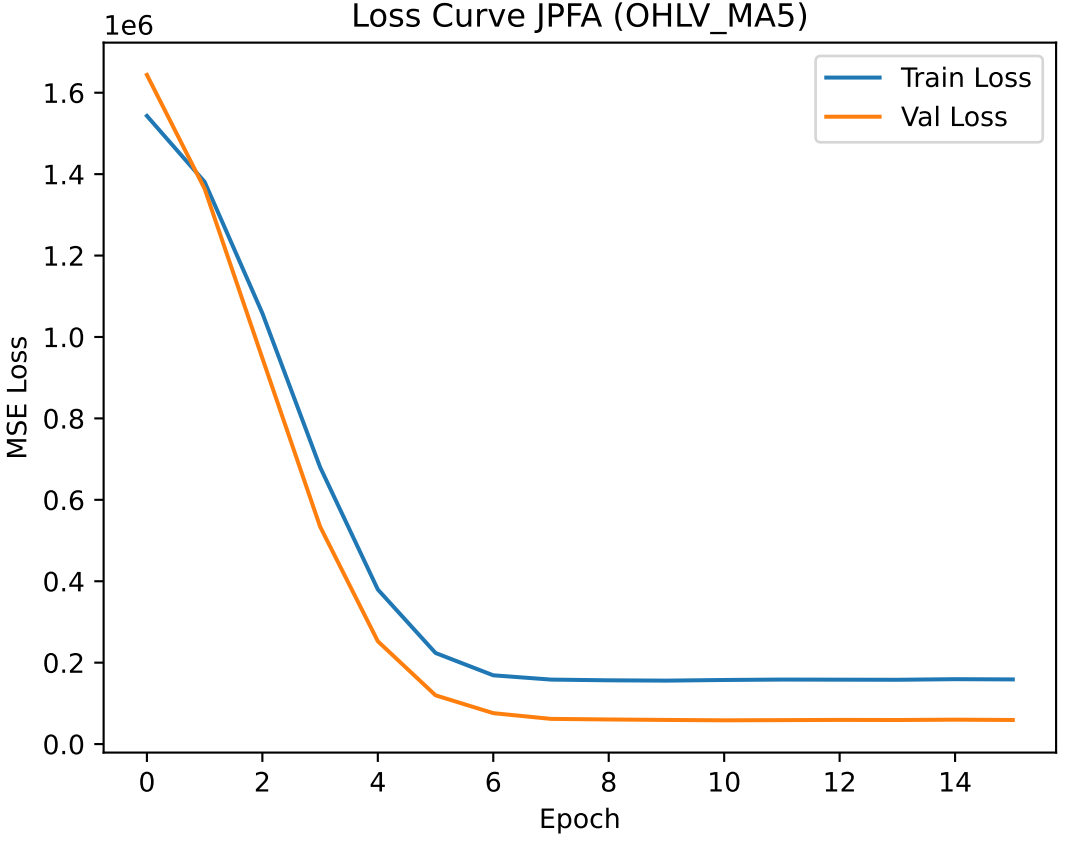

Loss Curve INCO (OHLV_MA5)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
Epoch

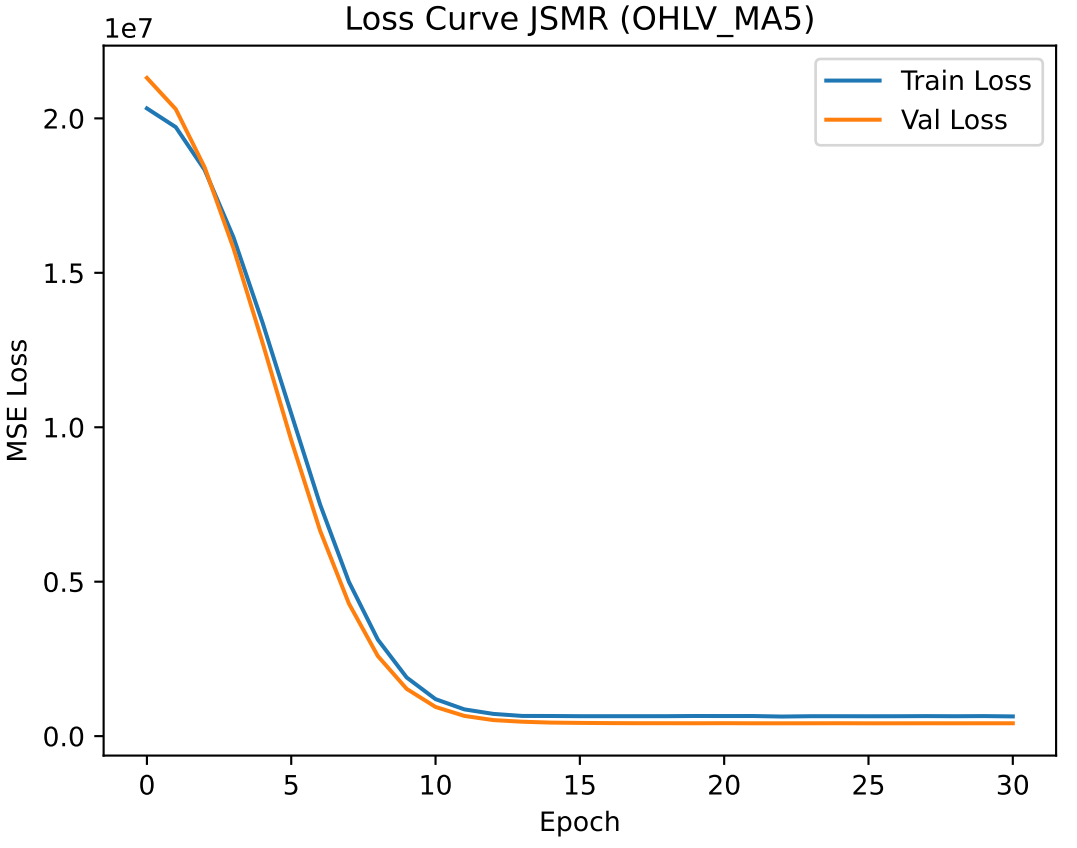

Loss Curve INDF (OHLV_MA5)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
0
5
10
15
20
25

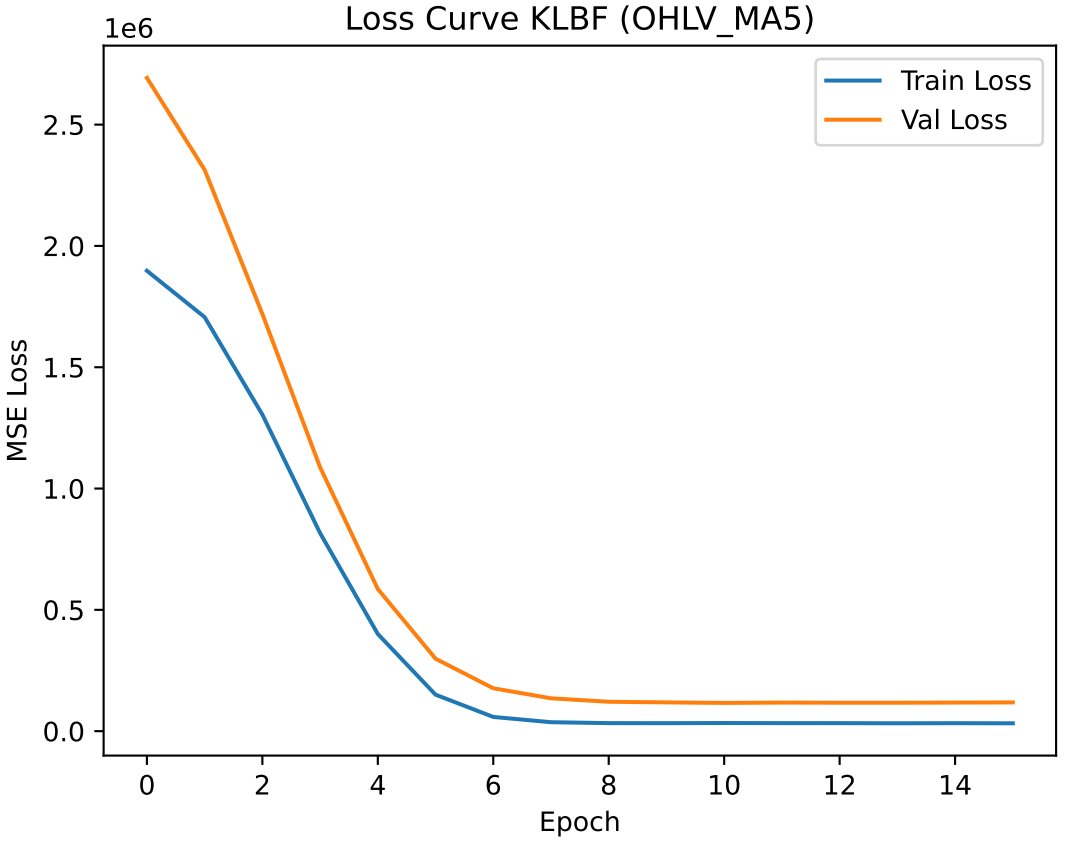

Loss Curve INKP (OHLV_MA5)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
1
2
3
4
5
6
7

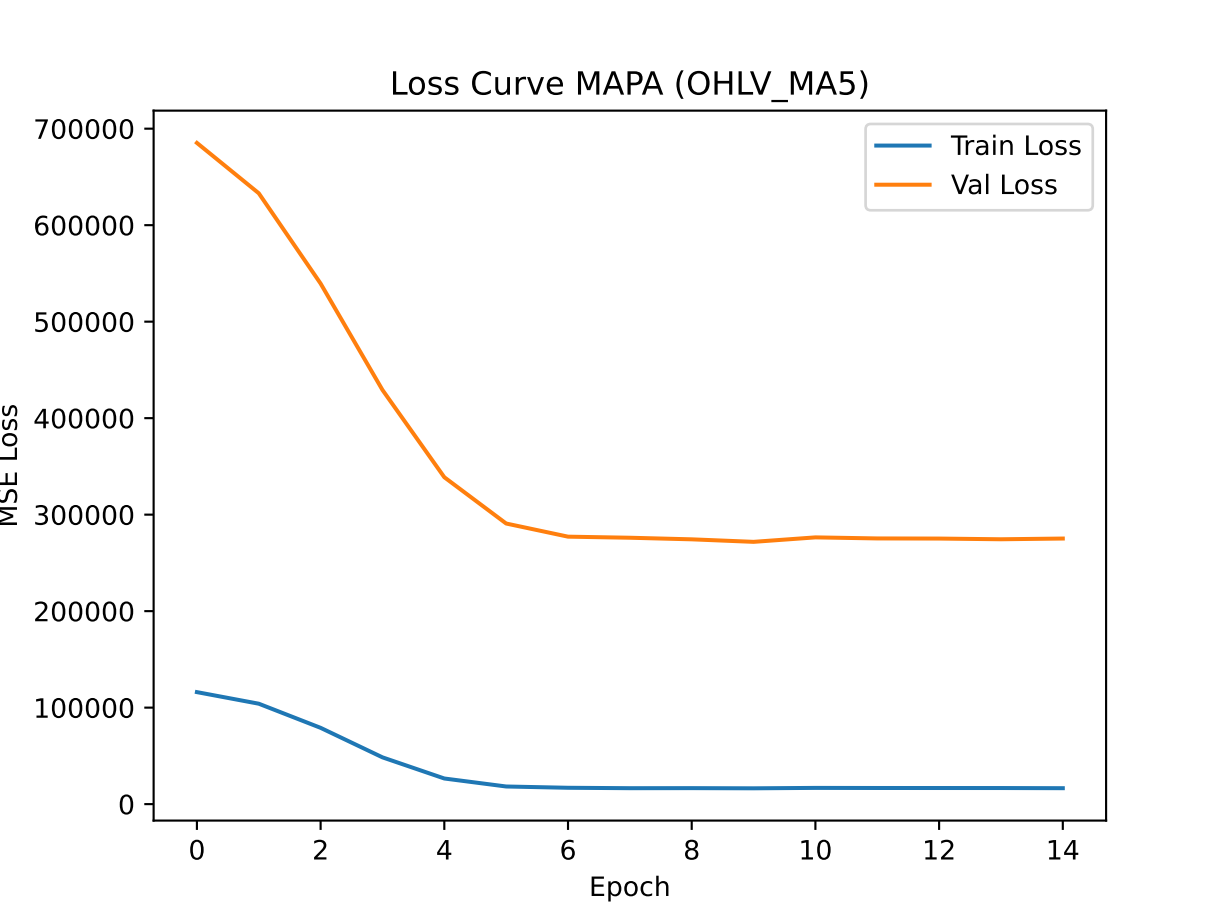

Loss Curve ISAT (OHLV_MA5)
1e6
6
5
4
3
2
1
0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

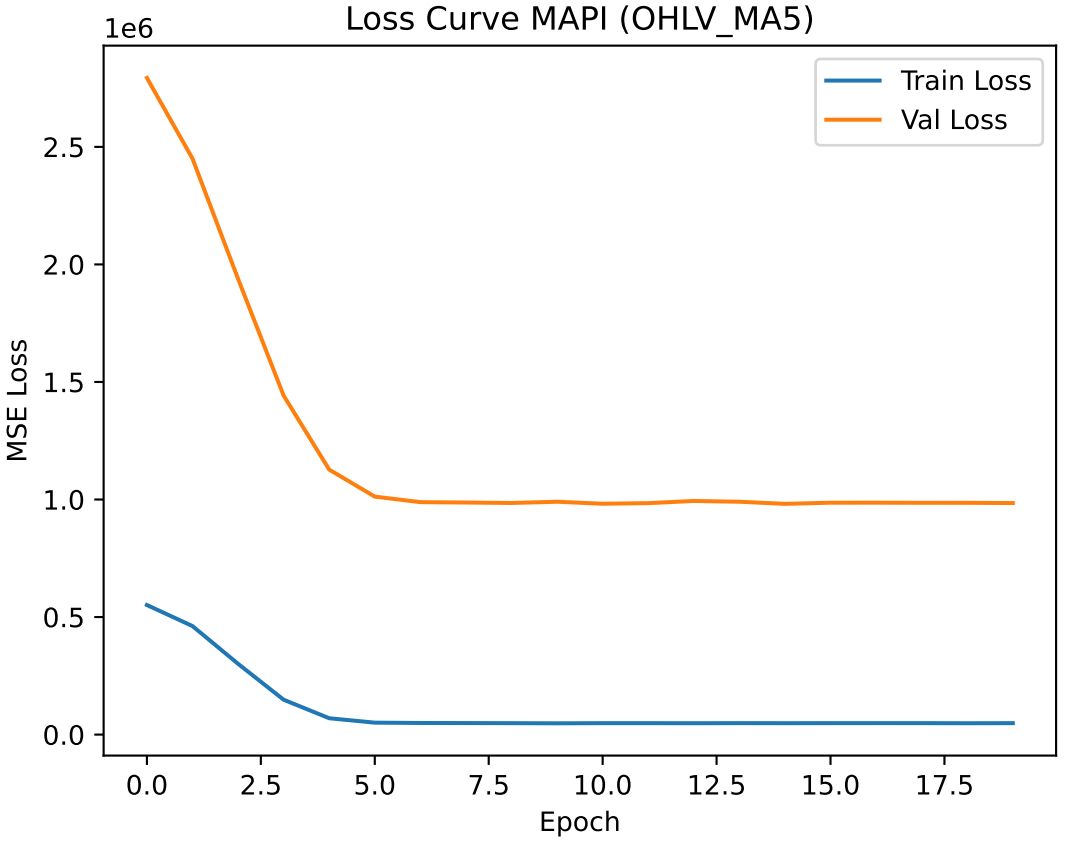

Loss Curve ITMG (OHLV_MA5)
1e8
6
5
4
3
2
1
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

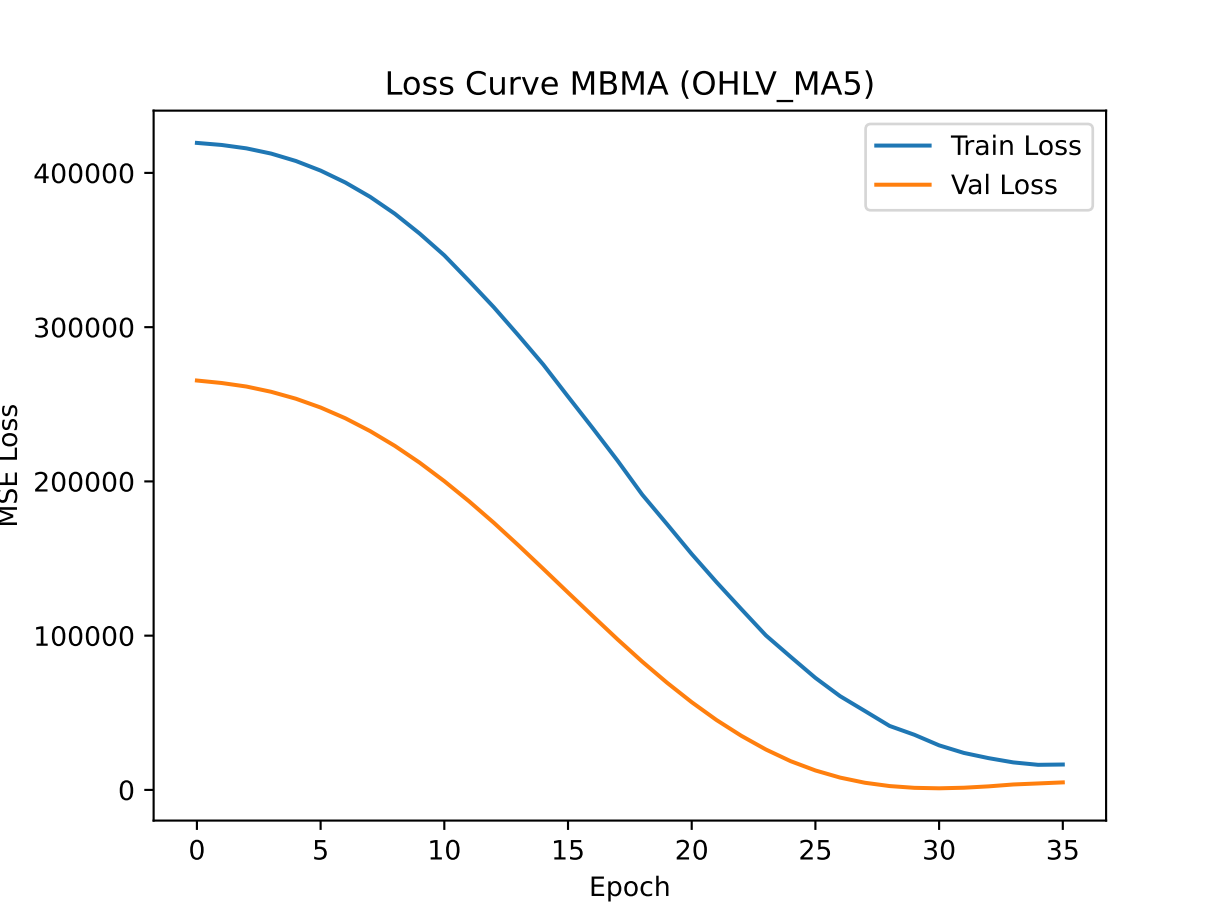

Loss Curve JPFA (OHLV_MA5)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14

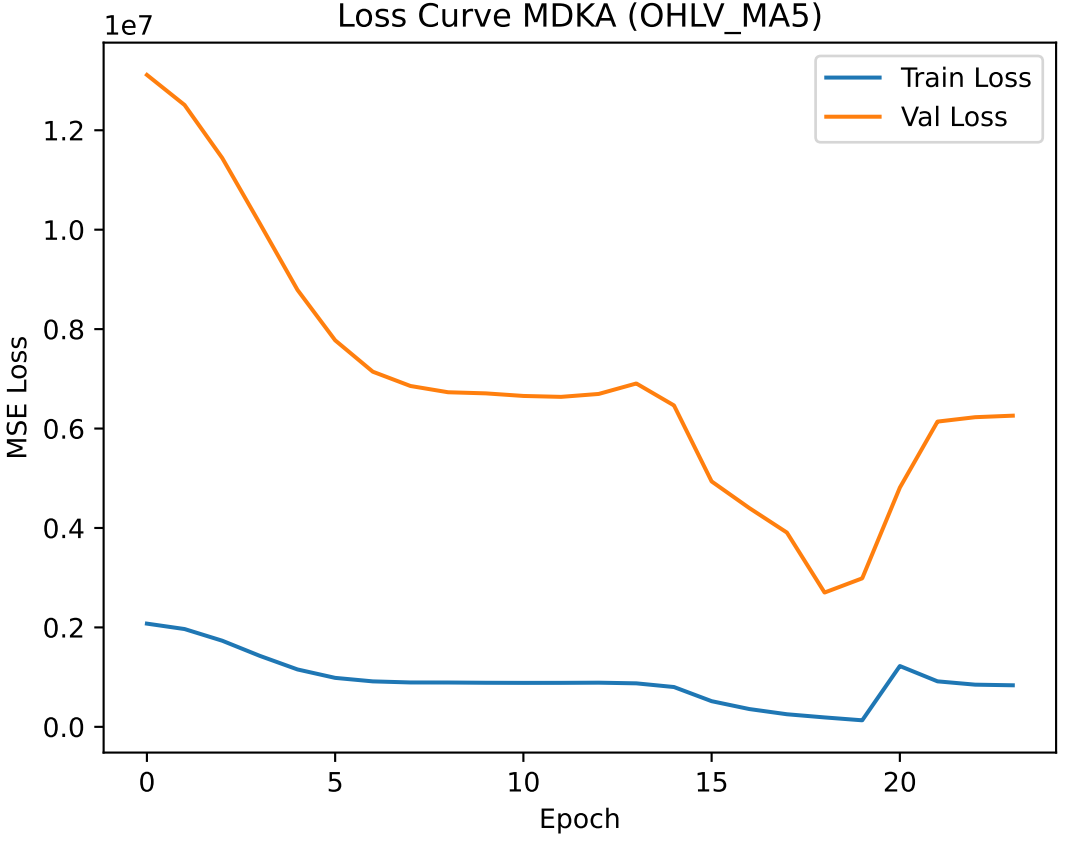

Loss Curve JSMR (OHLV_MA5)
1e7
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

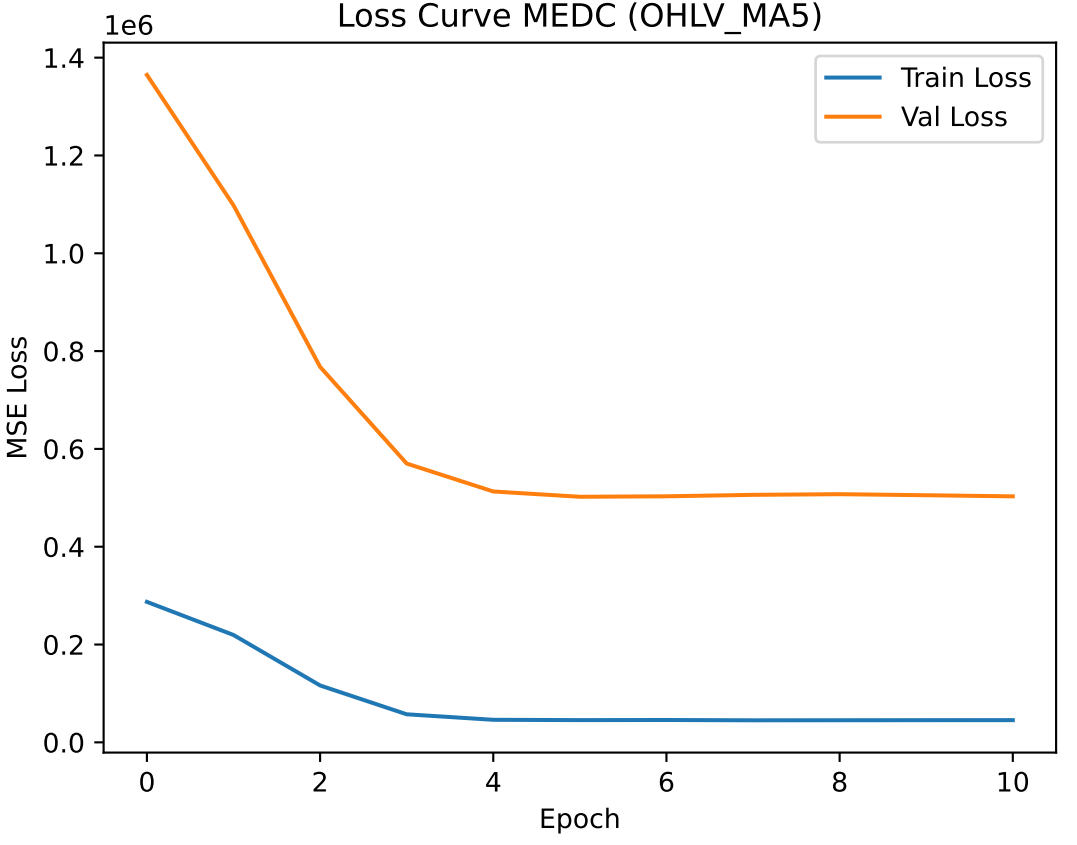

Loss Curve KLBF (OHLV_MA5)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

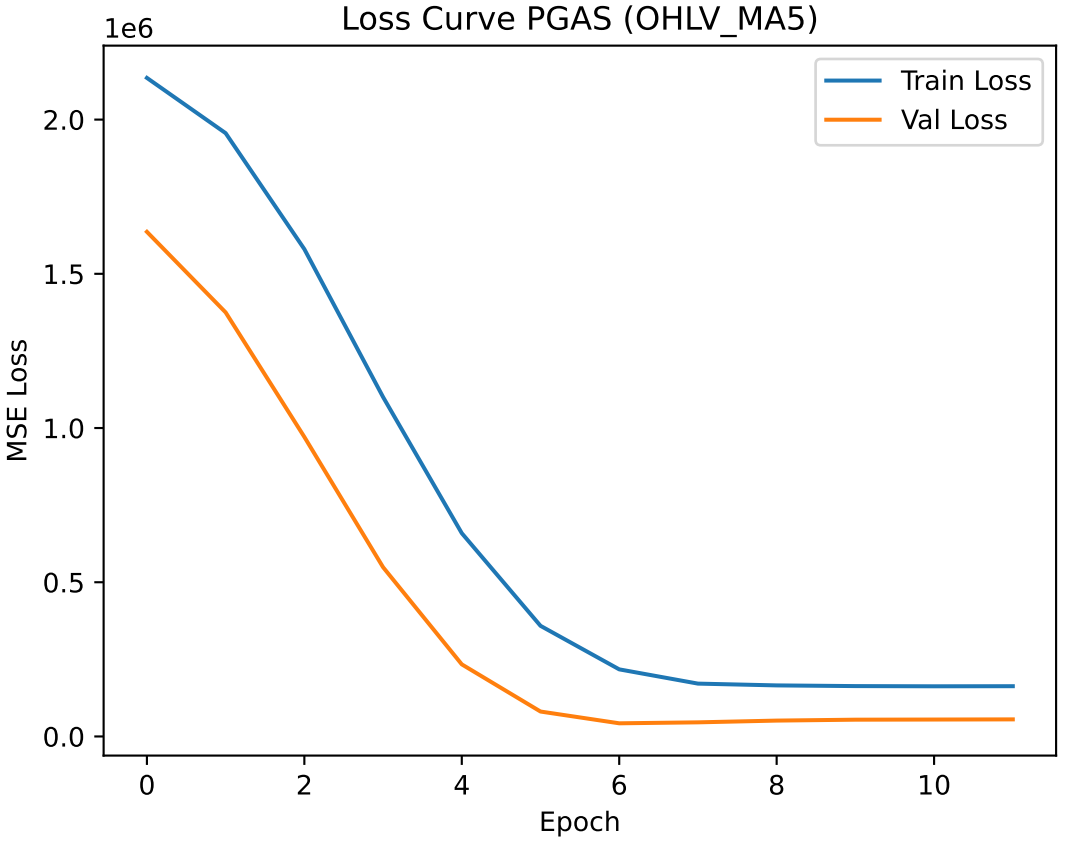

Loss Curve MAPA (OHLV_MA5)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14

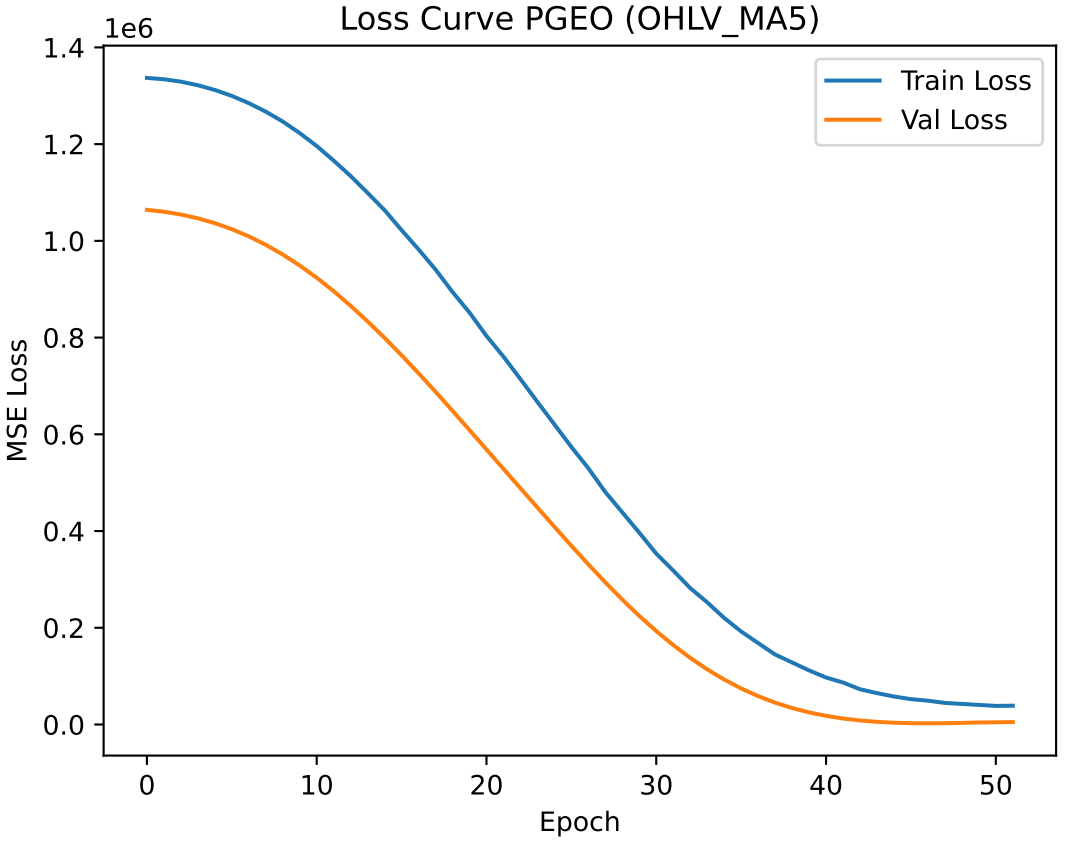

Loss Curve MAPI (OHLV_MA5)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

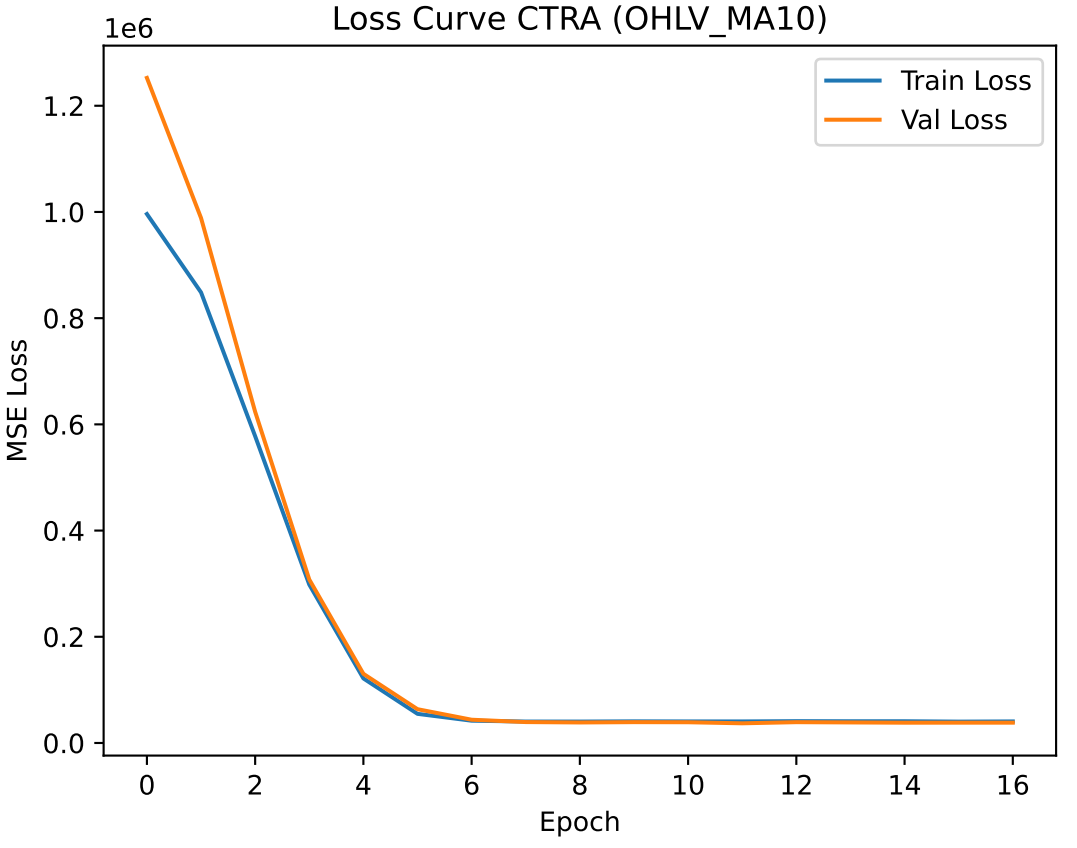

Loss Curve MBMA (OHLV_MA5)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

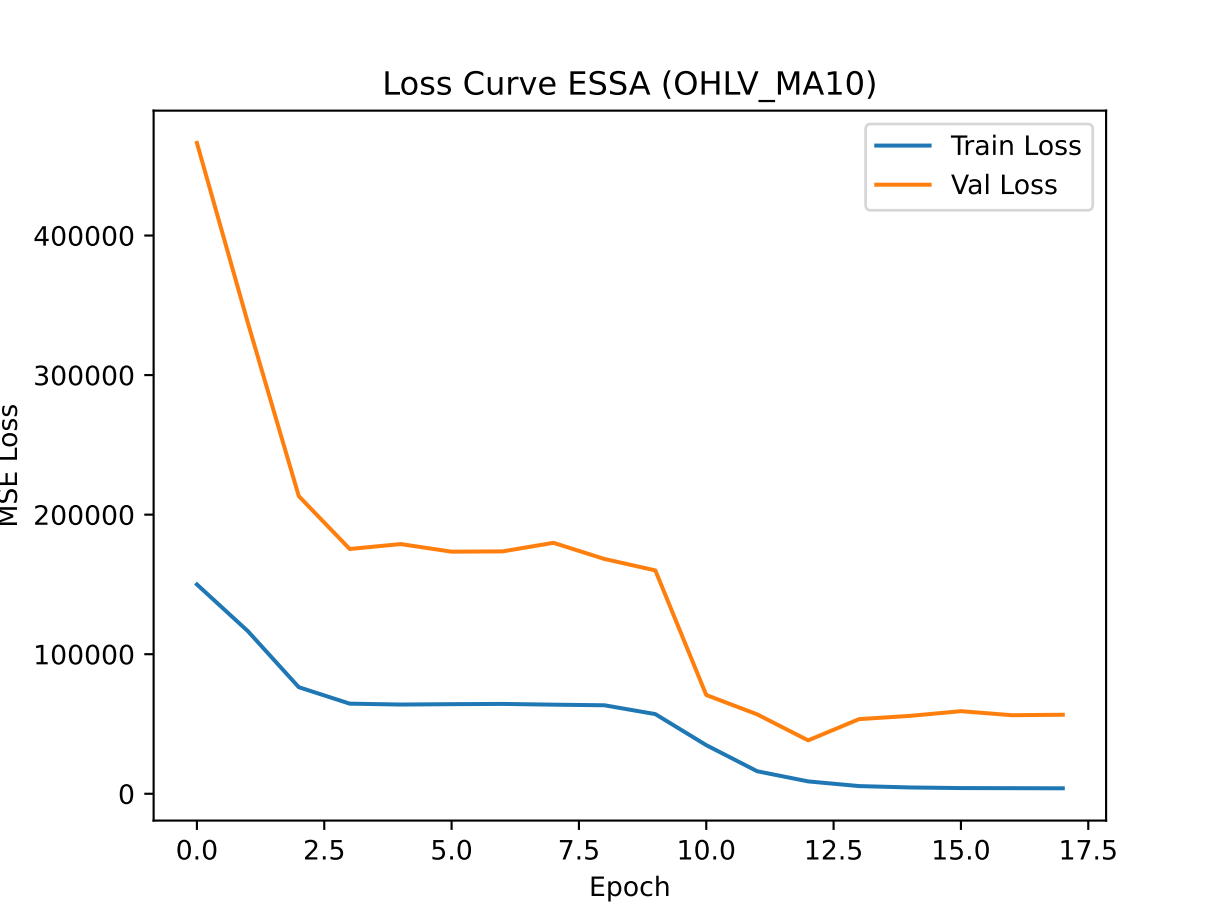

Loss Curve MDKA (OHLV_MA5)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
Epoch

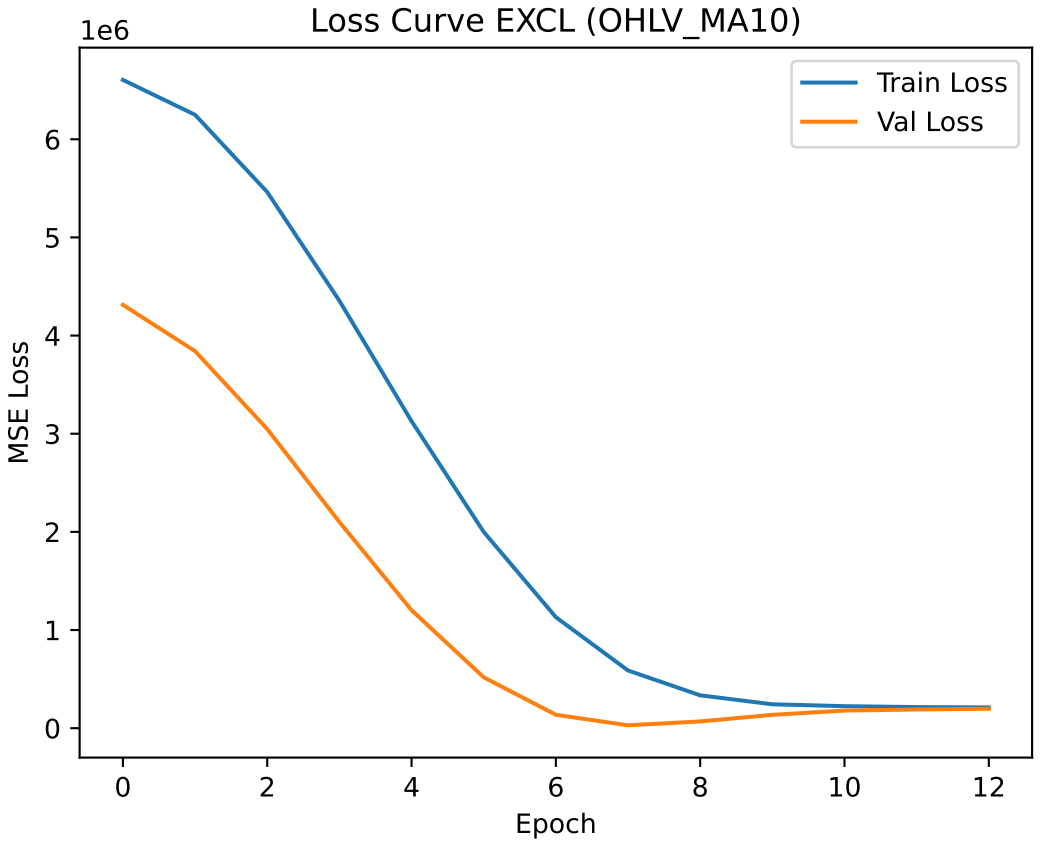

Loss Curve MEDC (OHLV_MA5)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
Epoch

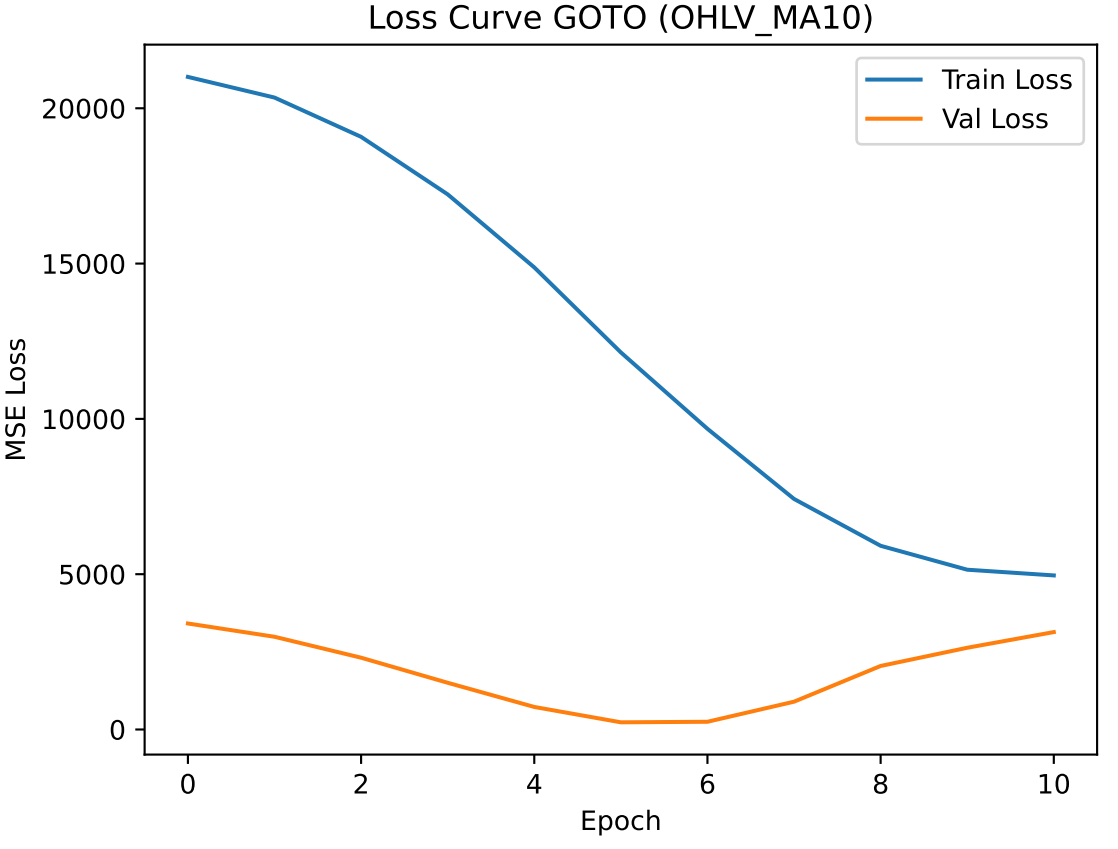

Loss Curve PGAS (OHLV_MA5)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

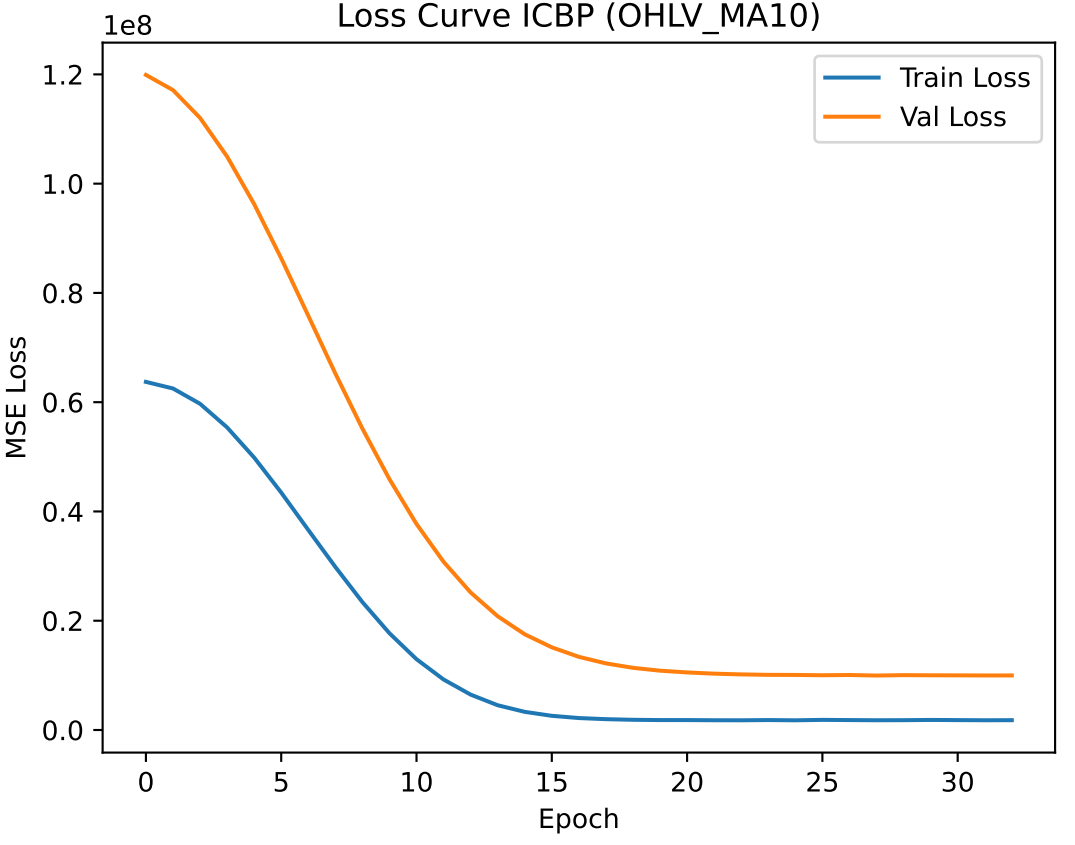

Loss Curve PGEO (OHLV_MA5)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

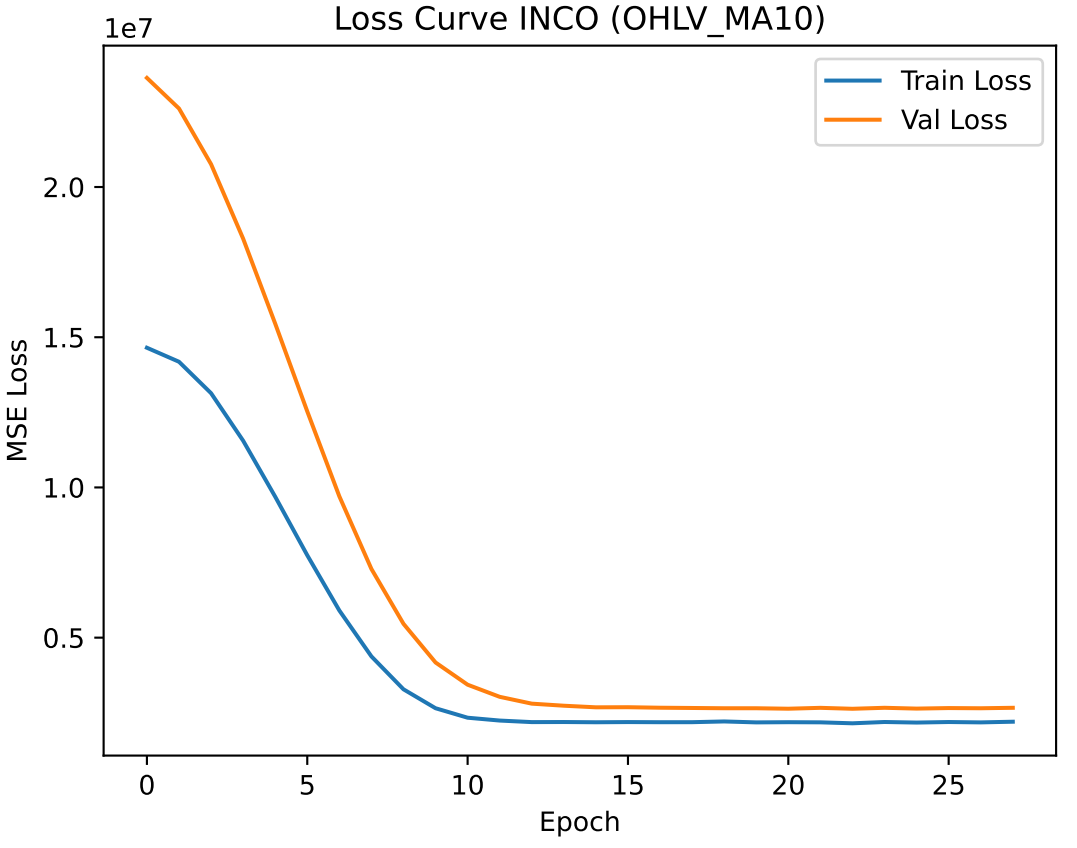

Loss Curve CTRA (OHLV_MA10)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12
14
16

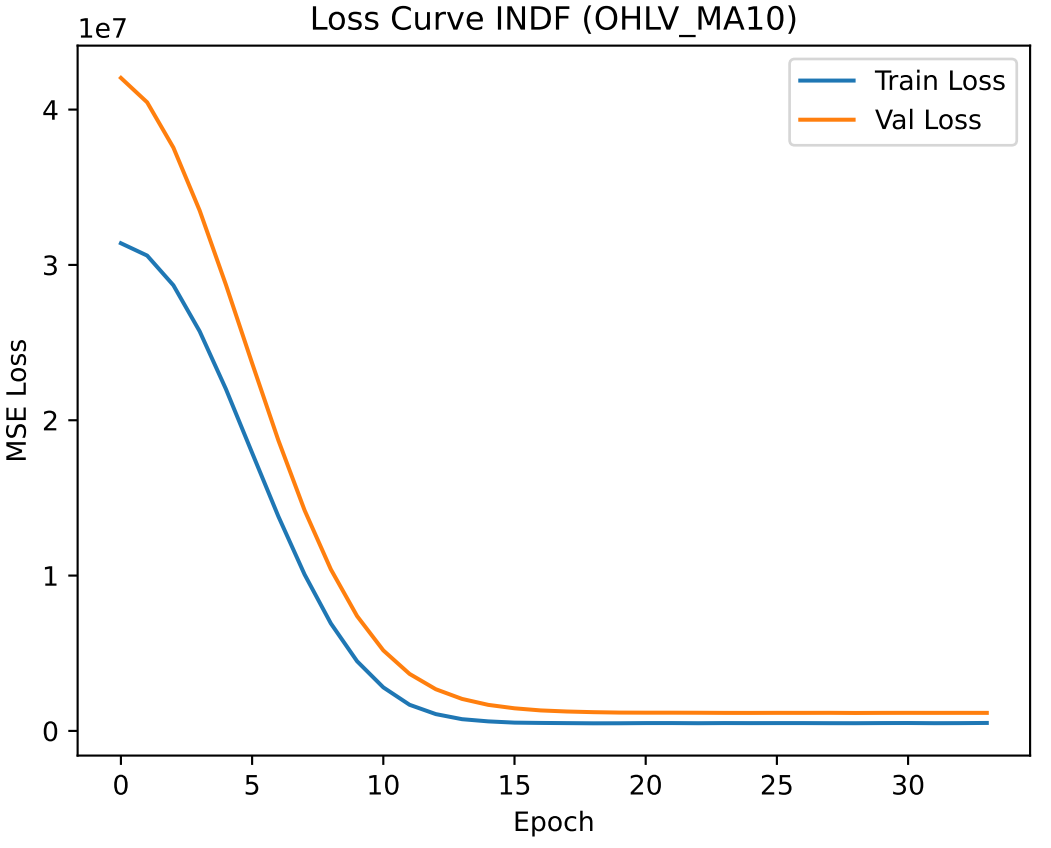

Loss Curve ESSA (OHLV_MA10)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

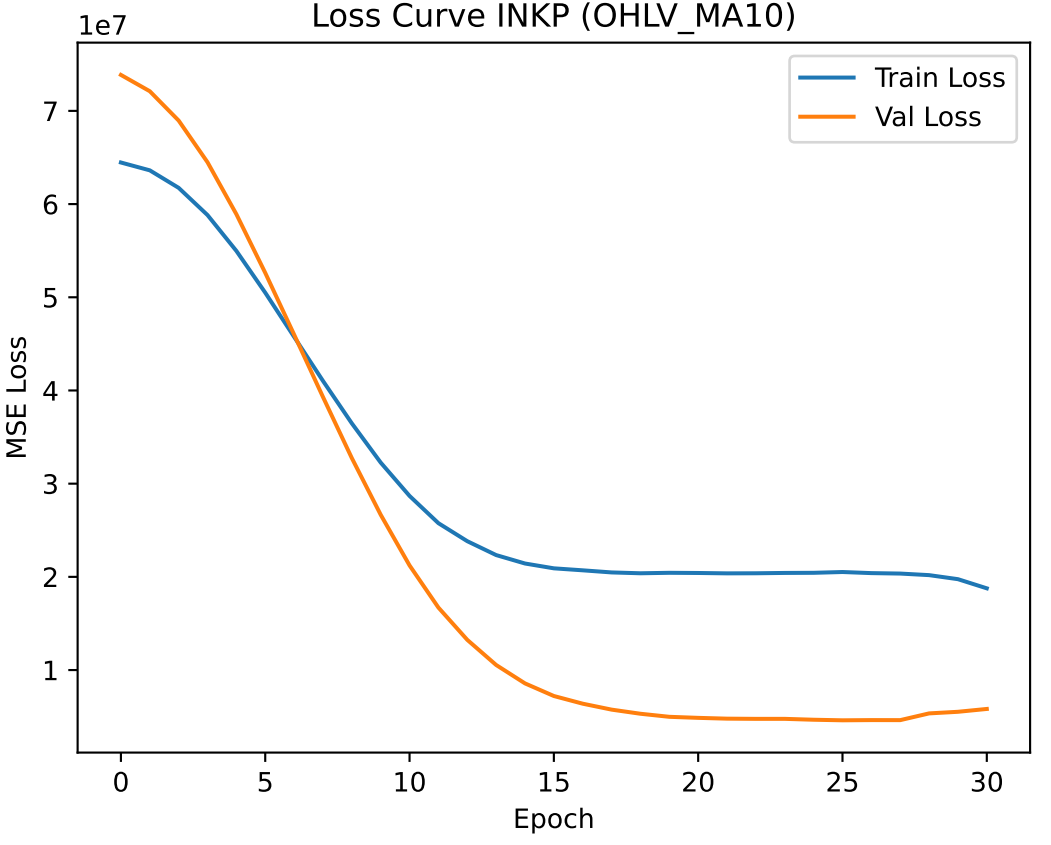

Loss Curve EXCL (OHLV_MA10)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12


Loss Curve GOTO (OHLV_MA10)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch


Loss Curve ICBP (OHLV_MA10)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch


Loss Curve INCO (OHLV_MA10)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
Epoch


Loss Curve INDF (OHLV_MA10)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30


Loss Curve INKP (OHLV_MA10)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
1
2
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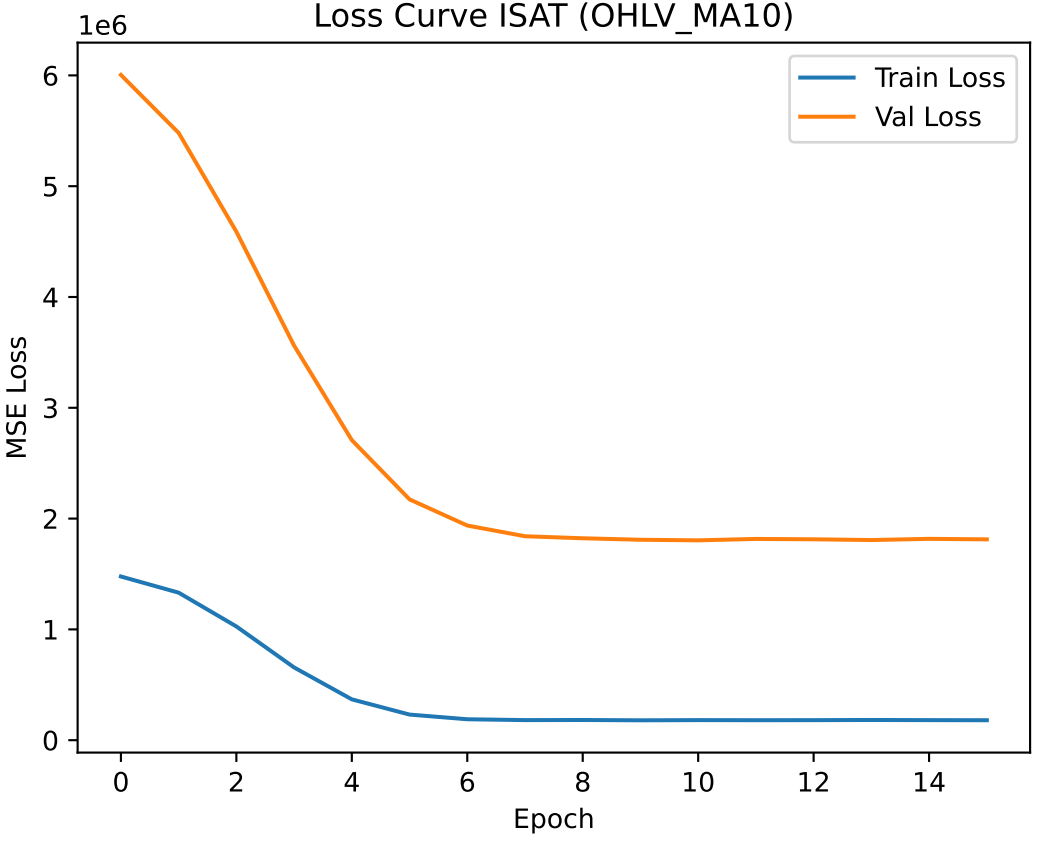
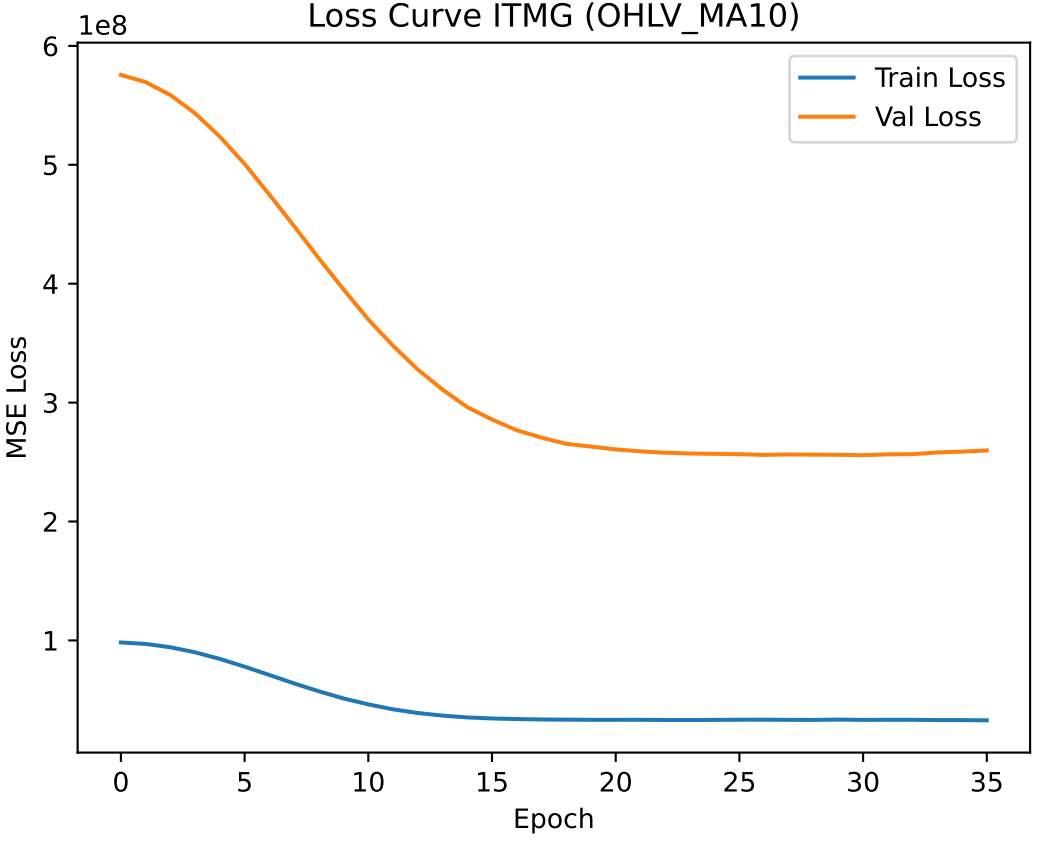
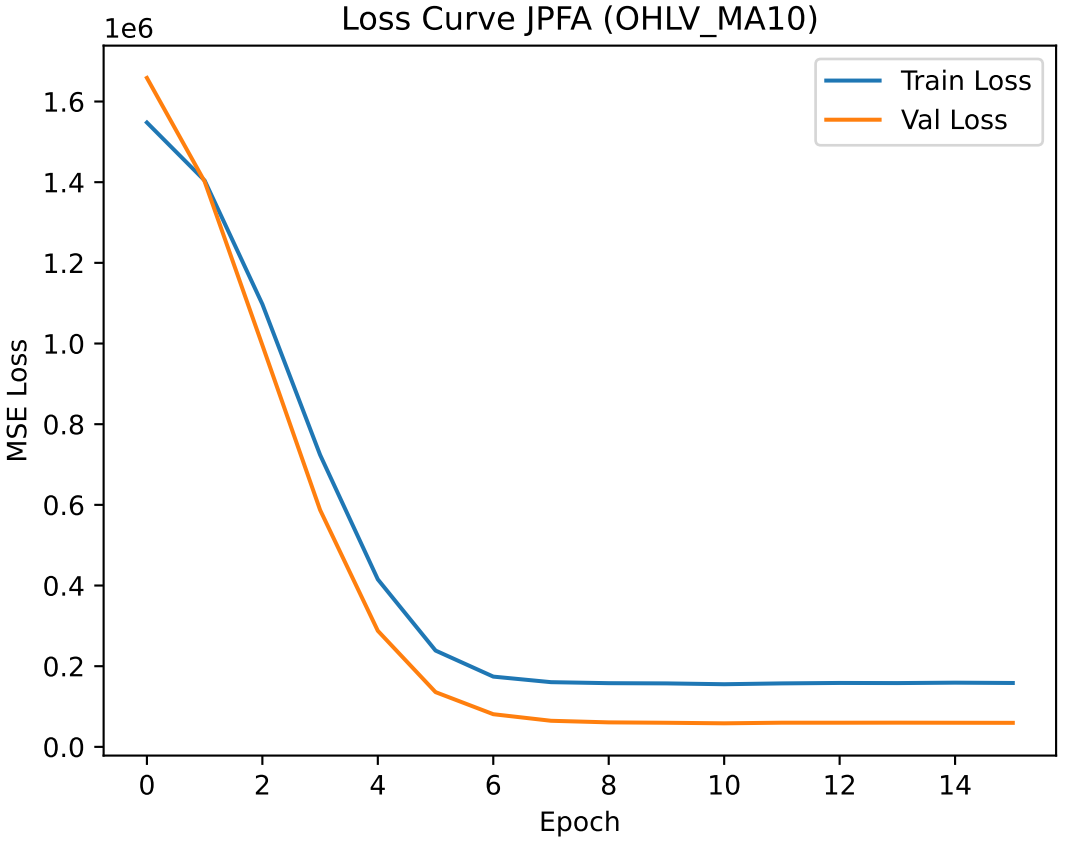
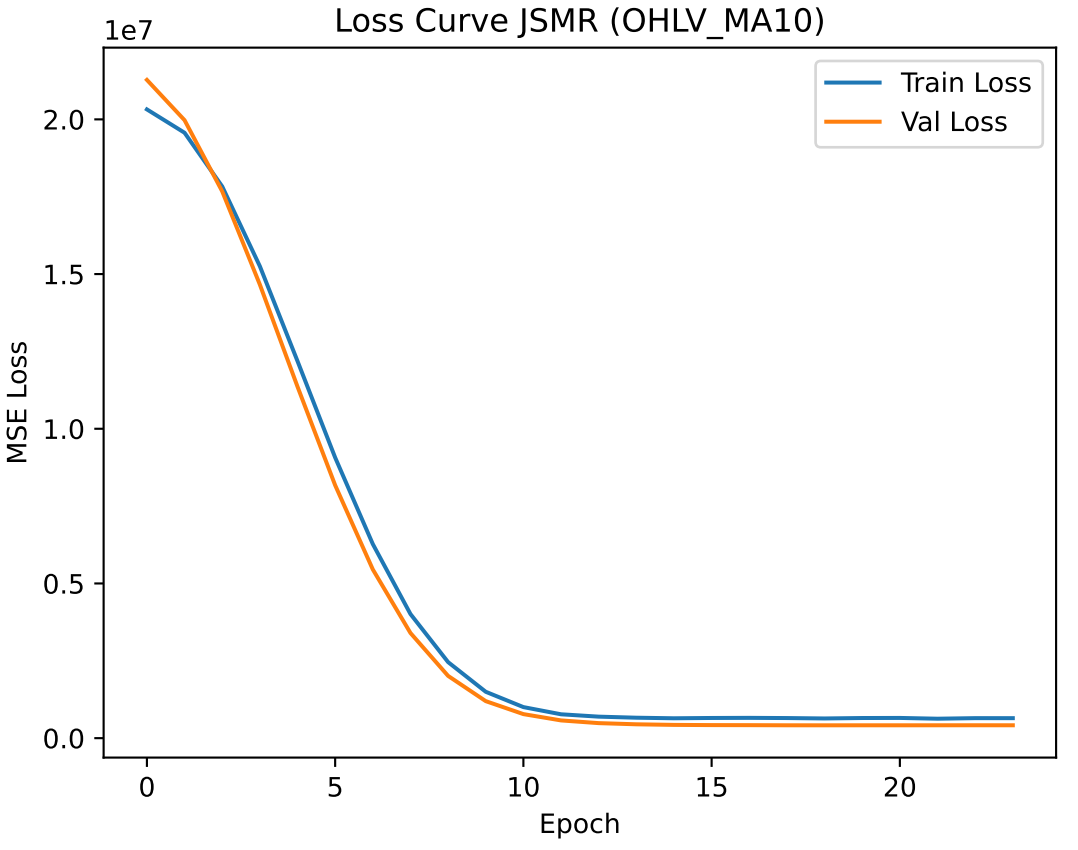
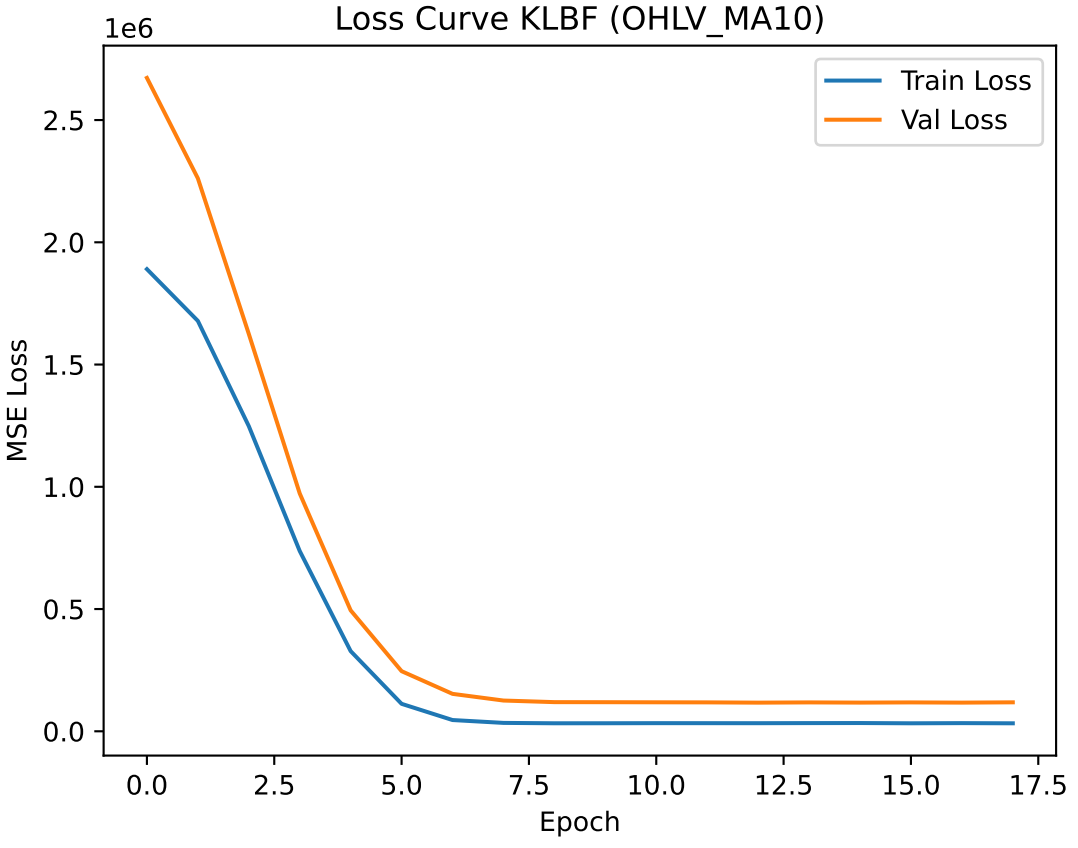
4
5
6
7

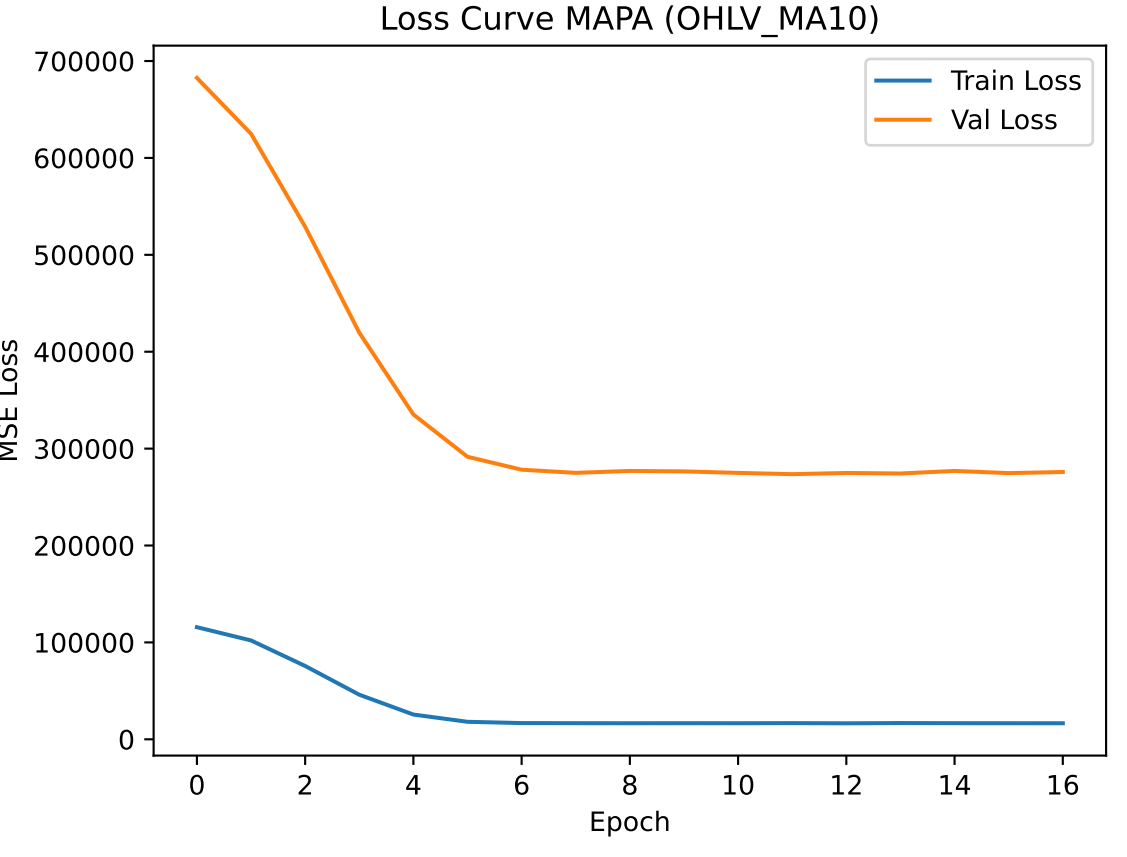

Loss Curve ISAT (OHLV_MA10)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14

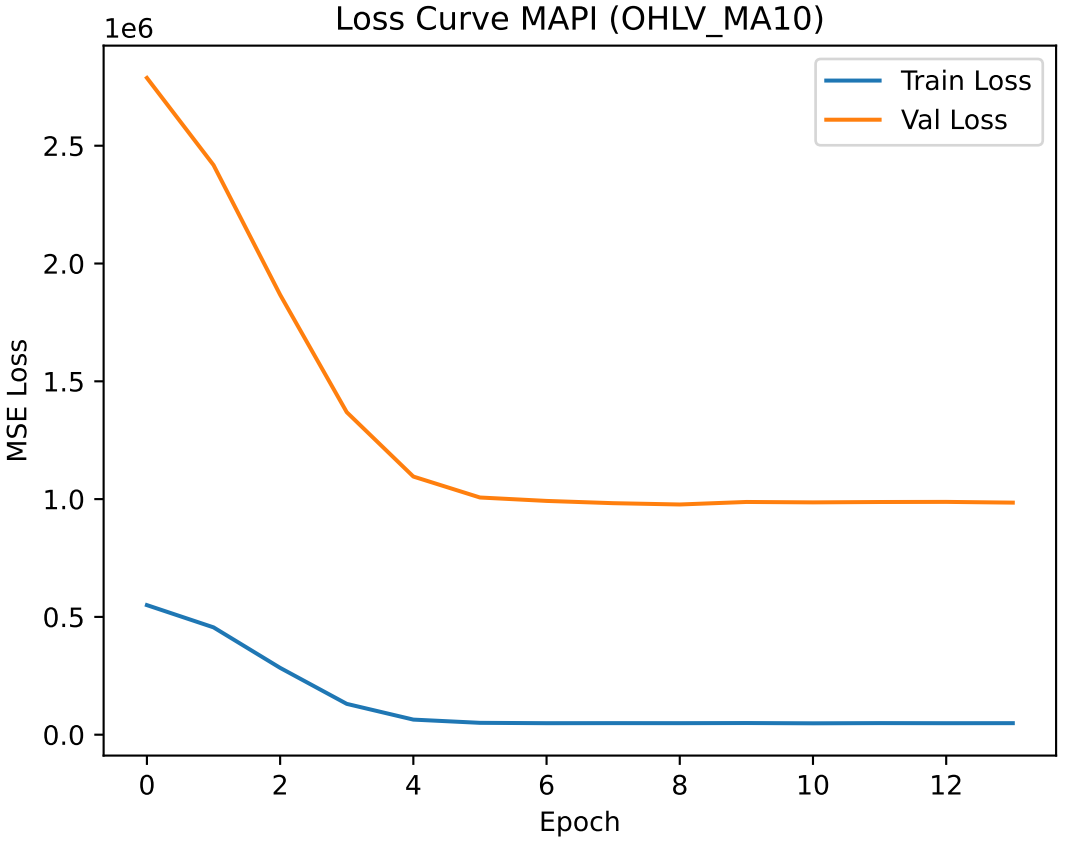

Loss Curve ITMG (OHLV_MA10)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

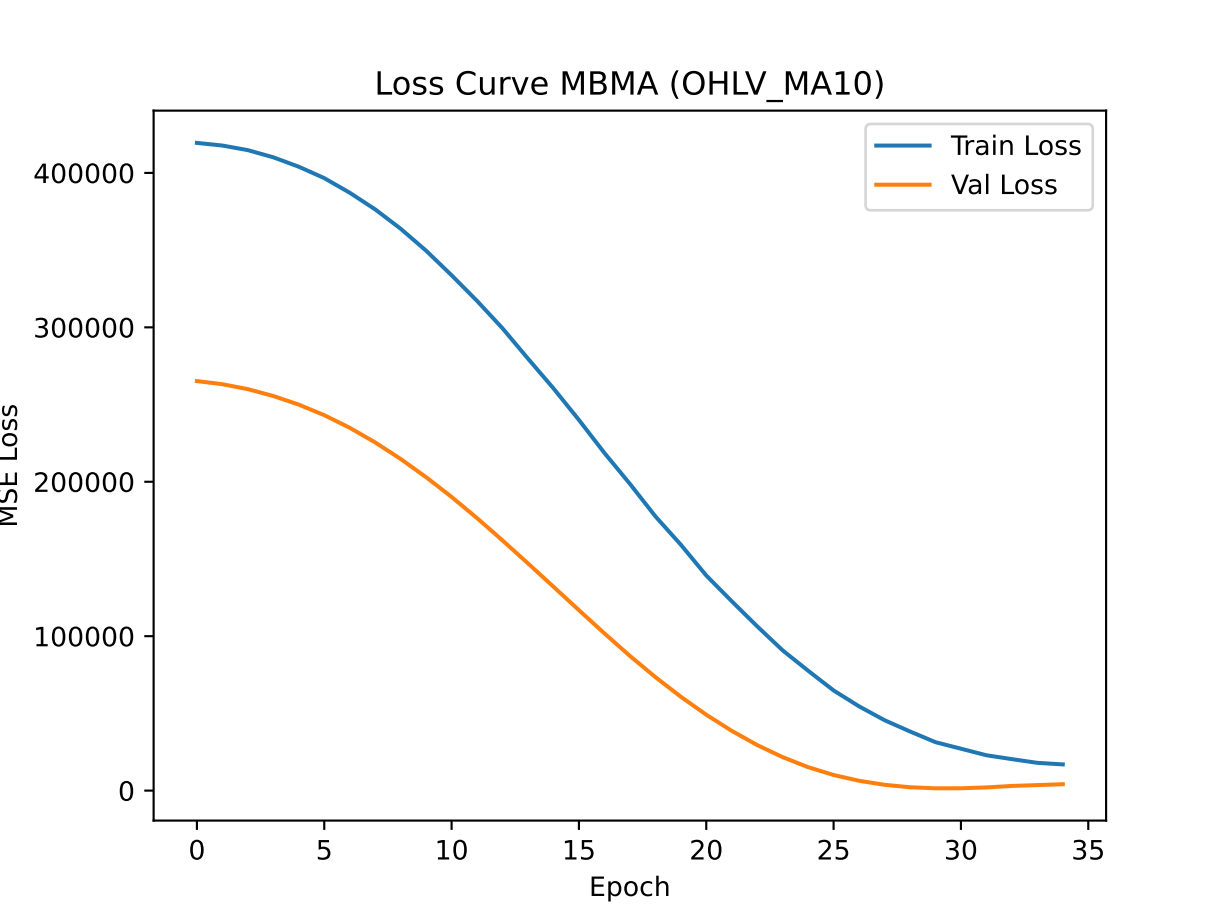

Loss Curve JPFA (OHLV_MA10)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14

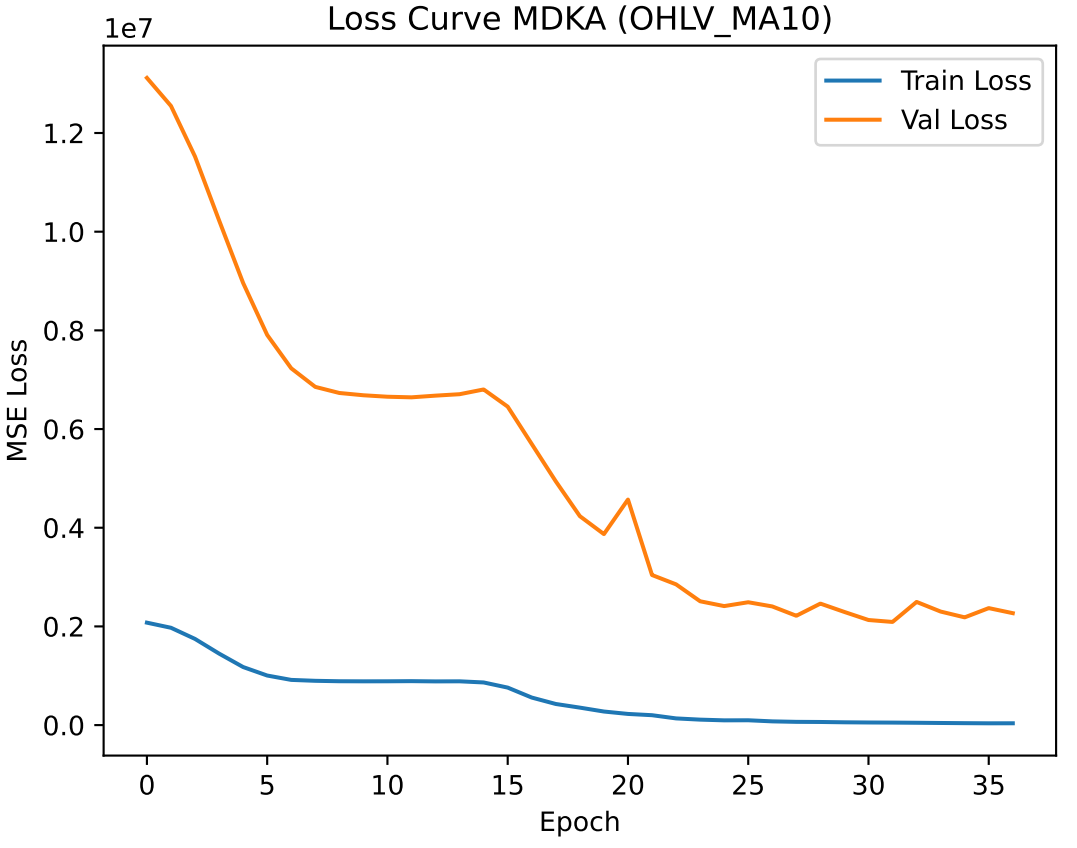

Loss Curve JSMR (OHLV_MA10)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
Epoch

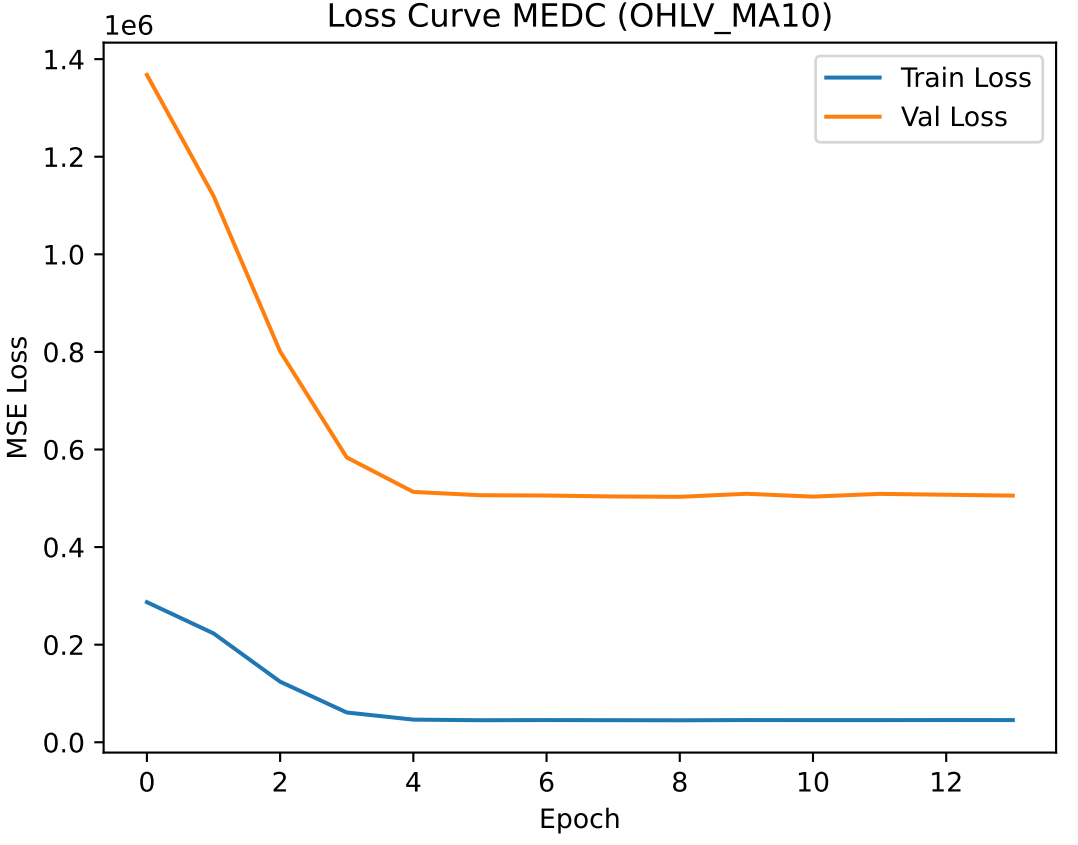

Loss Curve KLBF (OHLV_MA10)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

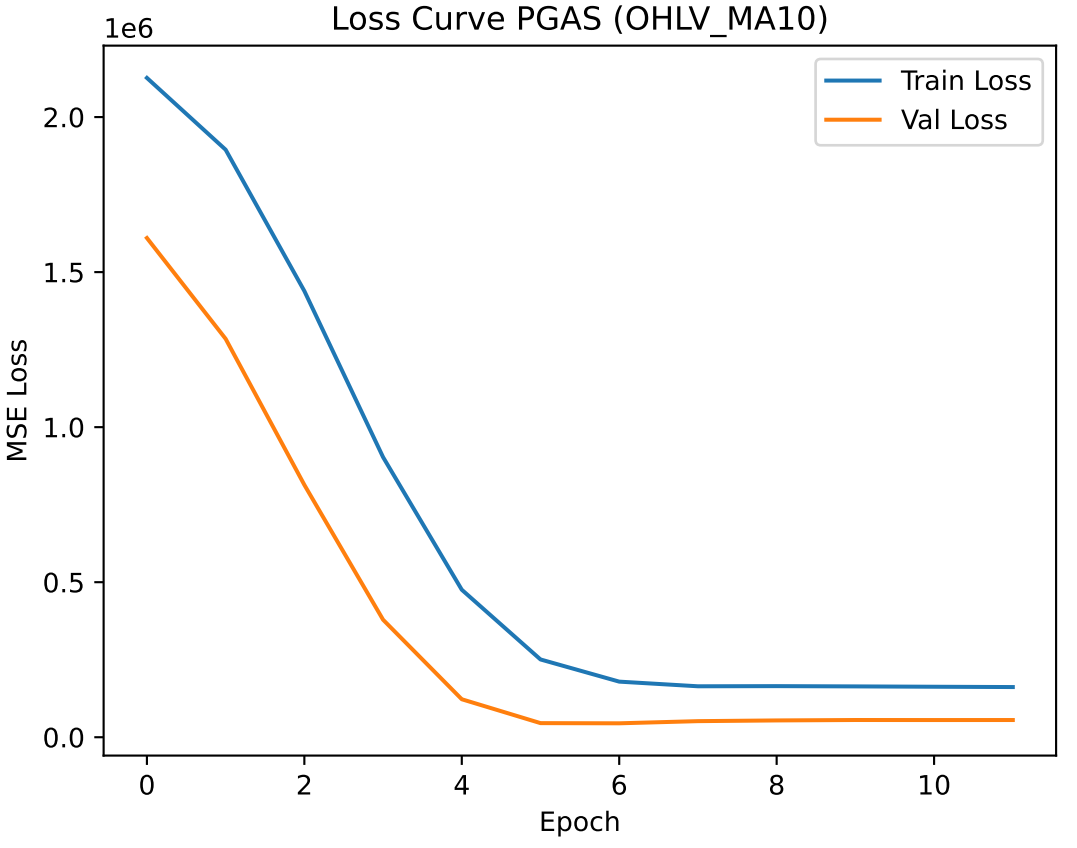

Loss Curve MAPA (OHLV_MA10)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14
16

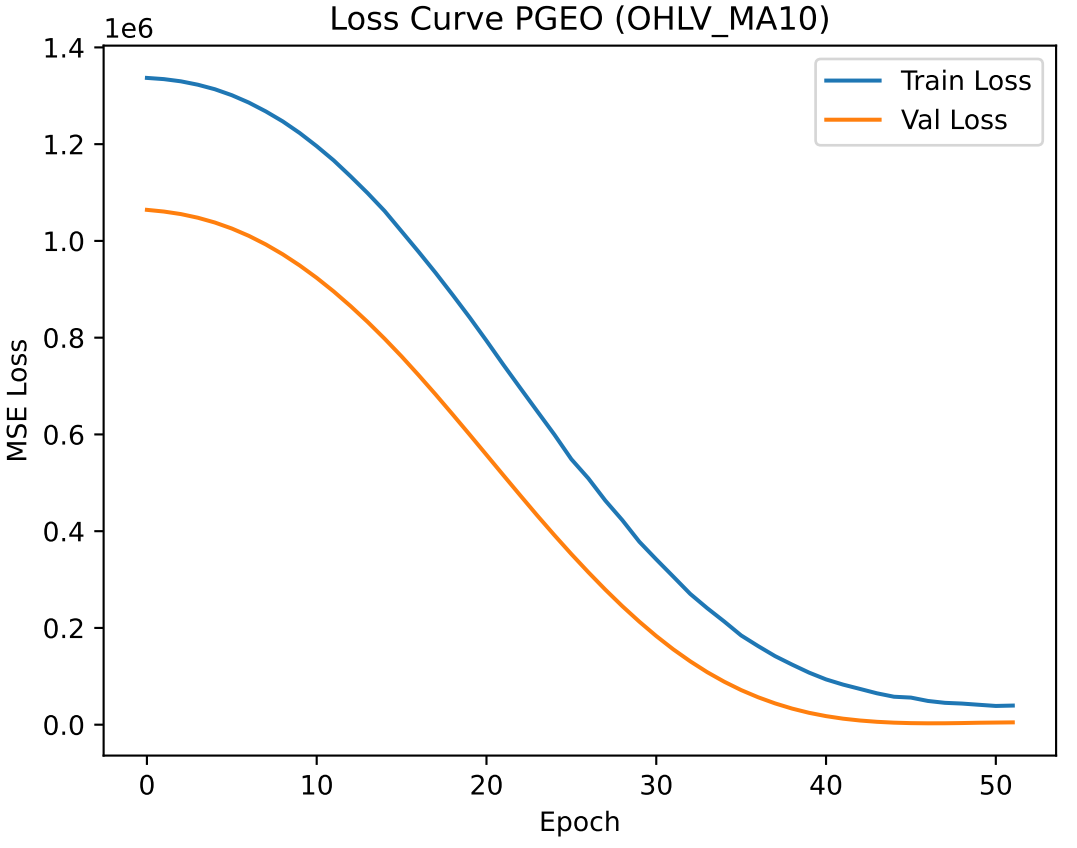

Loss Curve MAPI (OHLV_MA10)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch

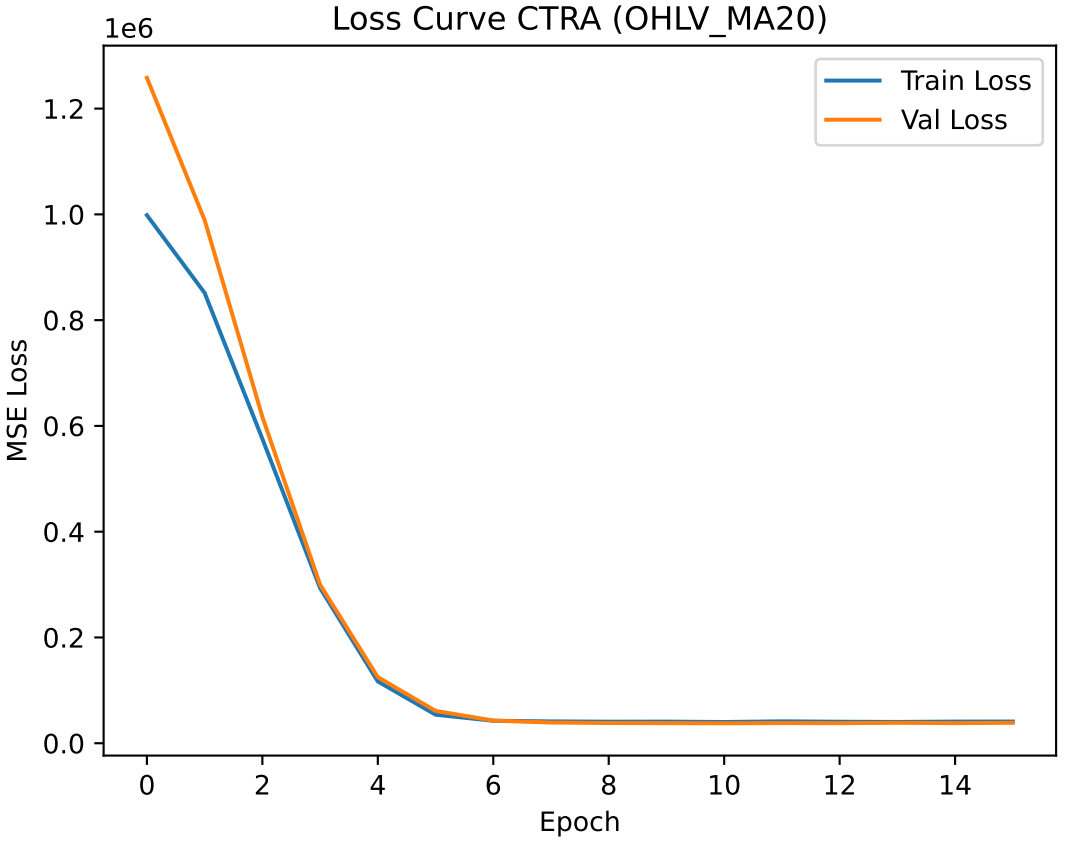

Loss Curve MBMA (OHLV_MA10)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

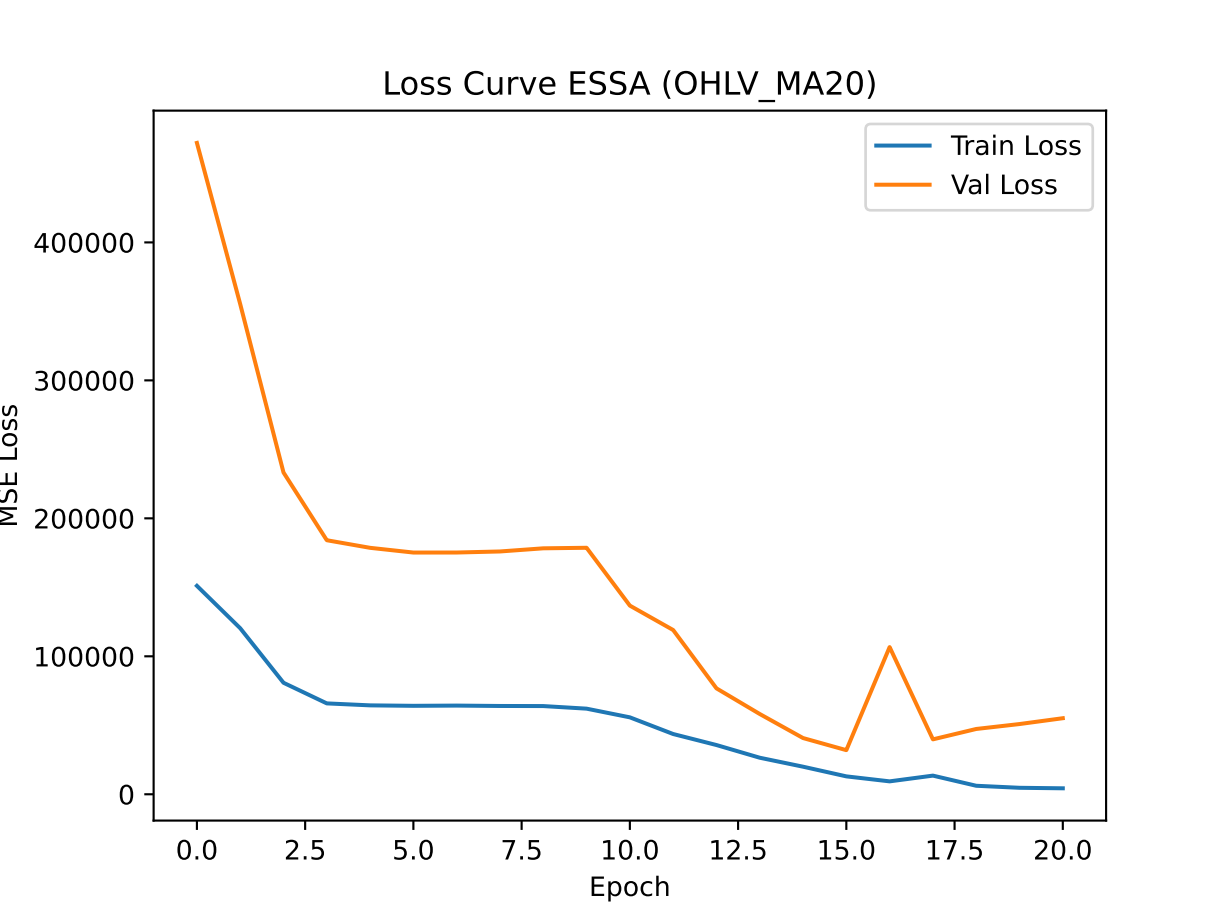

Loss Curve MDKA (OHLV_MA10)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15
20
25
30
35

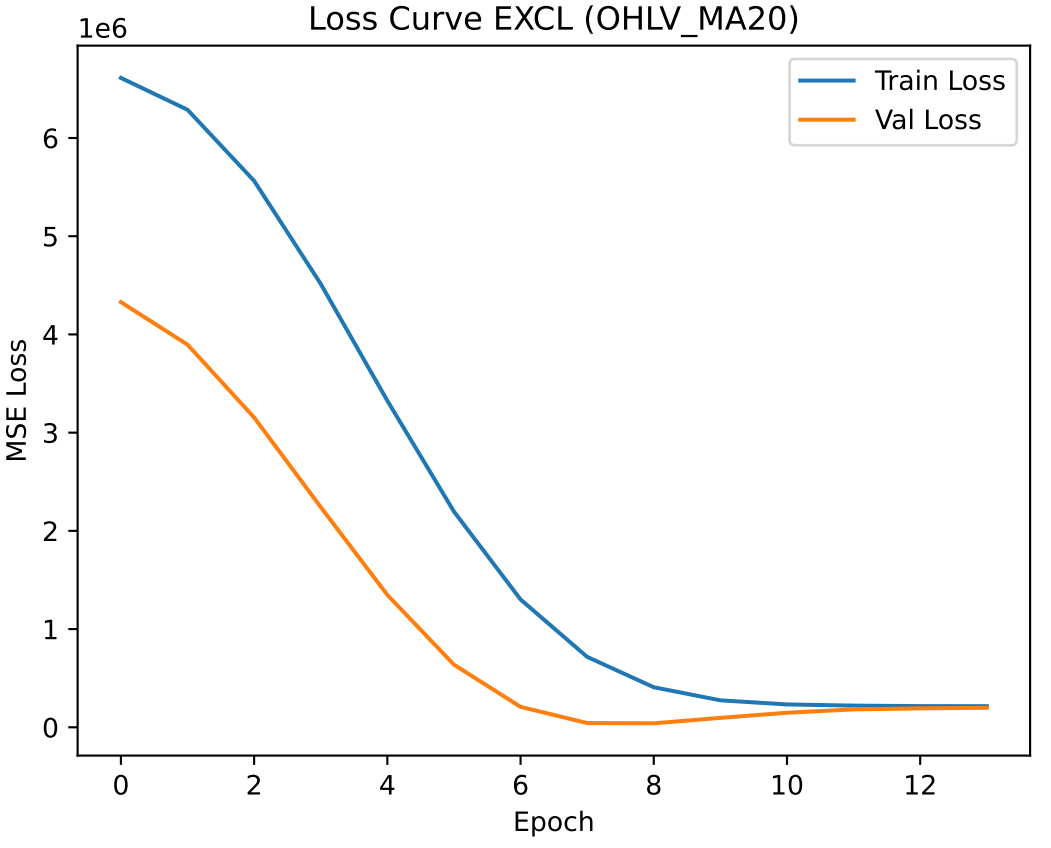

Loss Curve MEDC (OHLV_MA10)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
Epoch

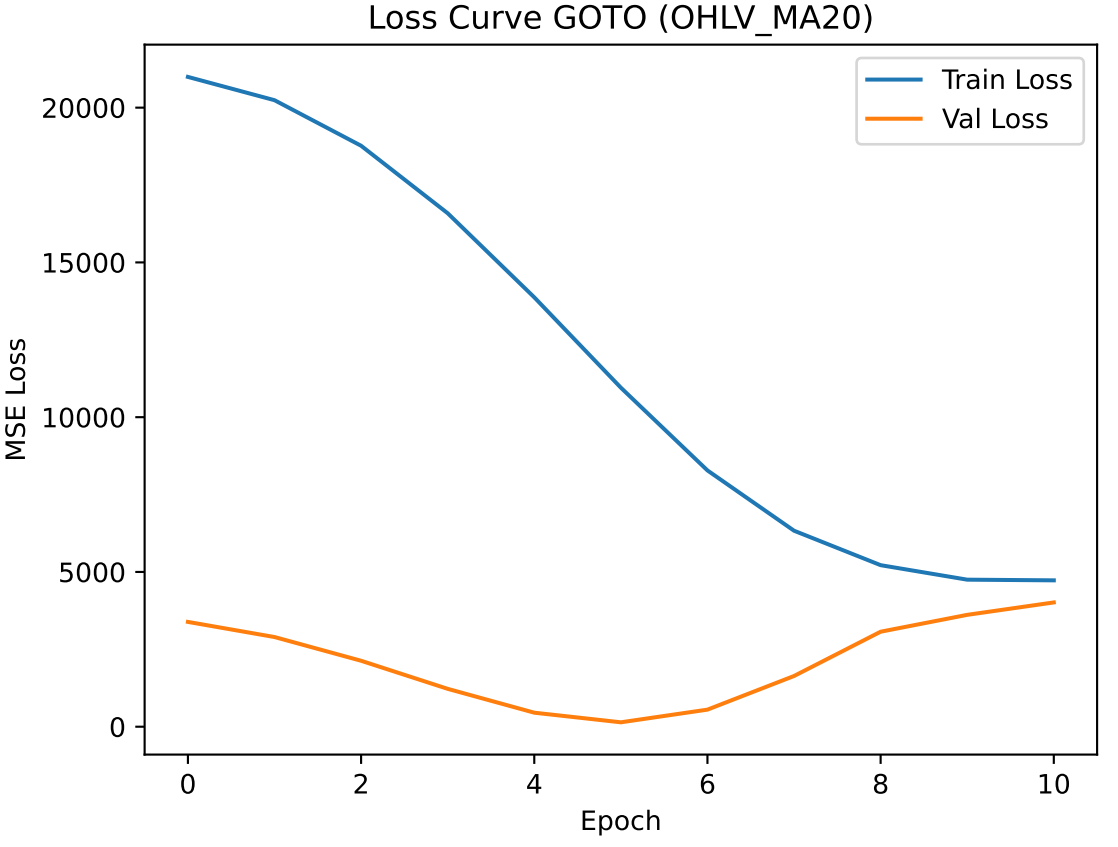

Loss Curve PGAS (OHLV_MA10)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

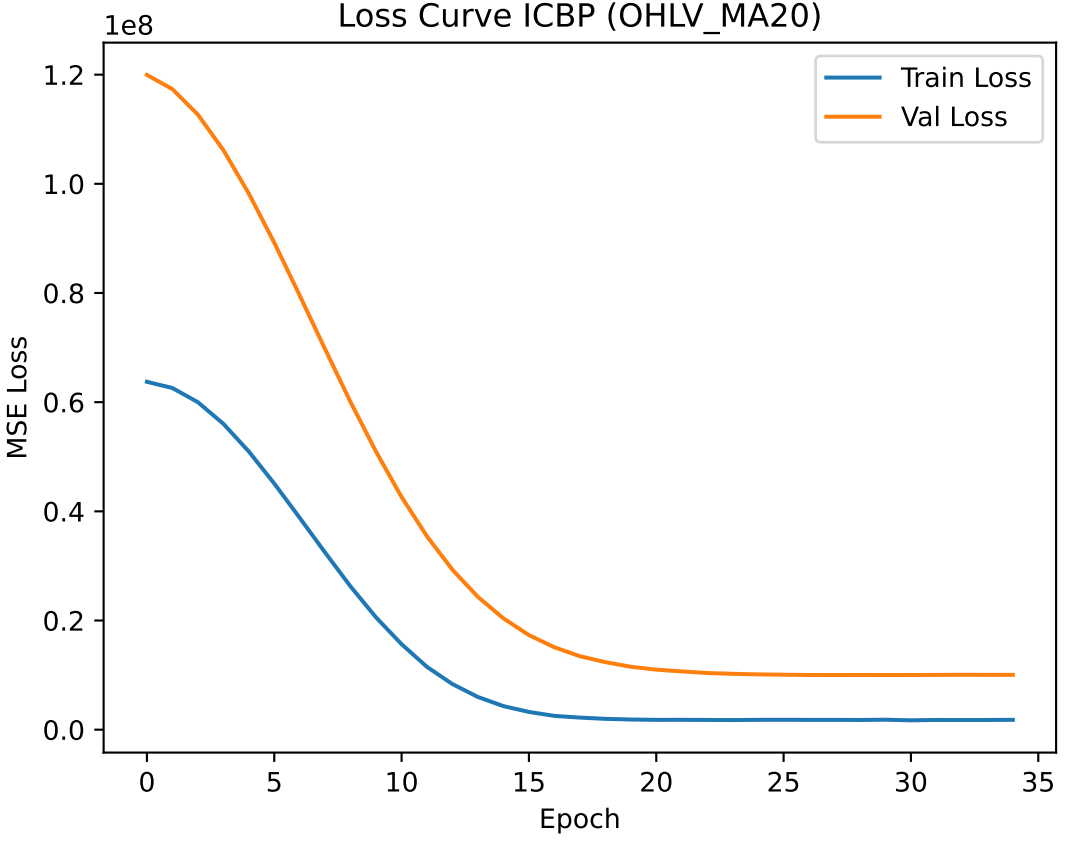

Loss Curve PGEO (OHLV_MA10)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

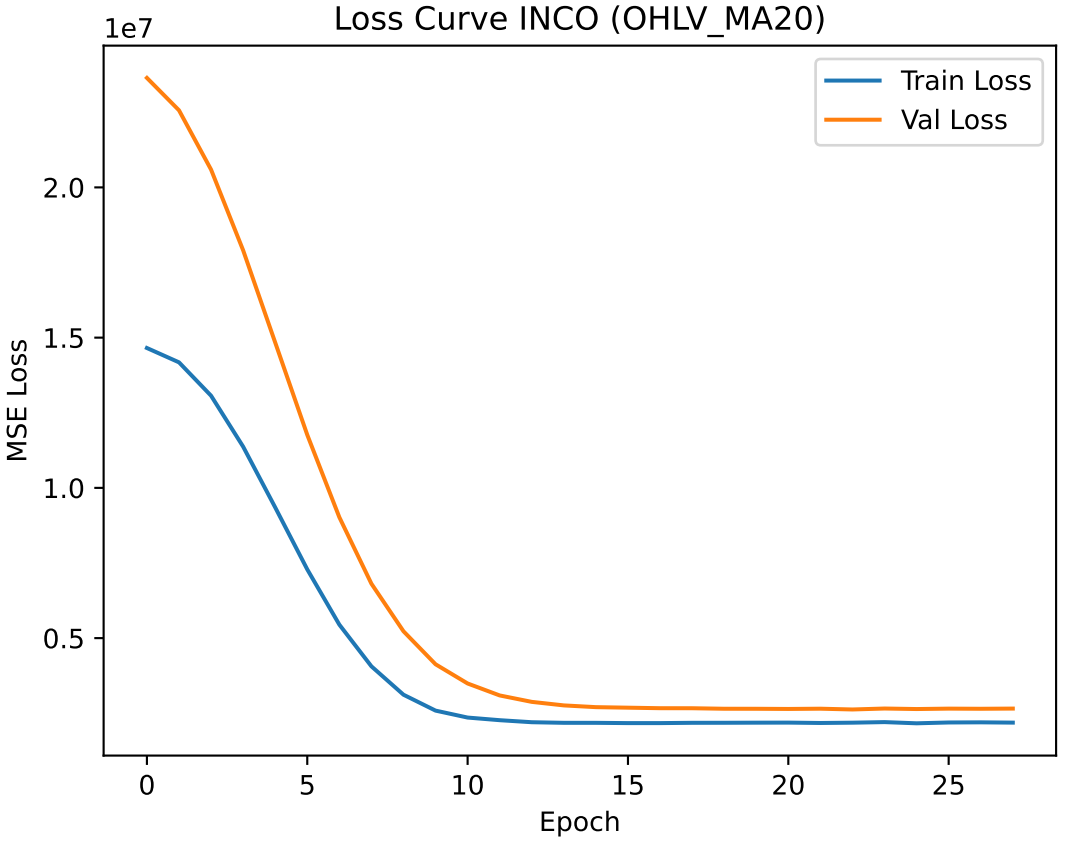

Loss Curve CTRA (OHLV_MA20)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12
14

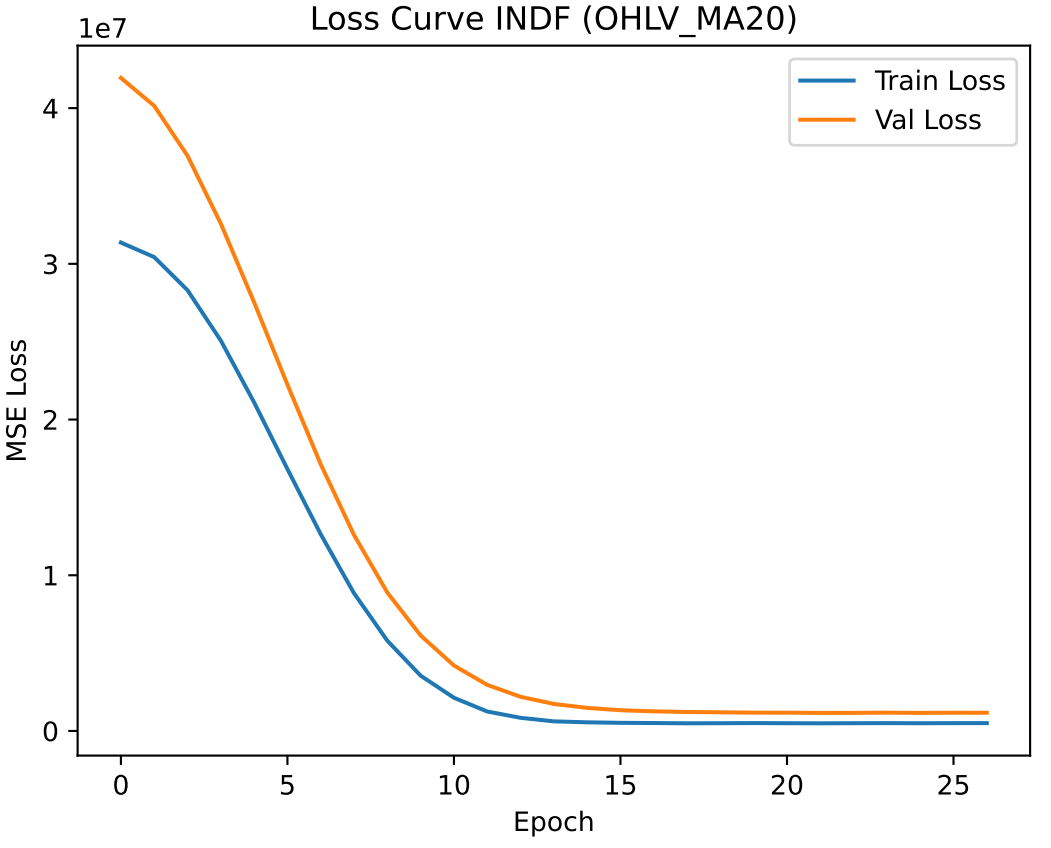

Loss Curve ESSA (OHLV_MA20)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

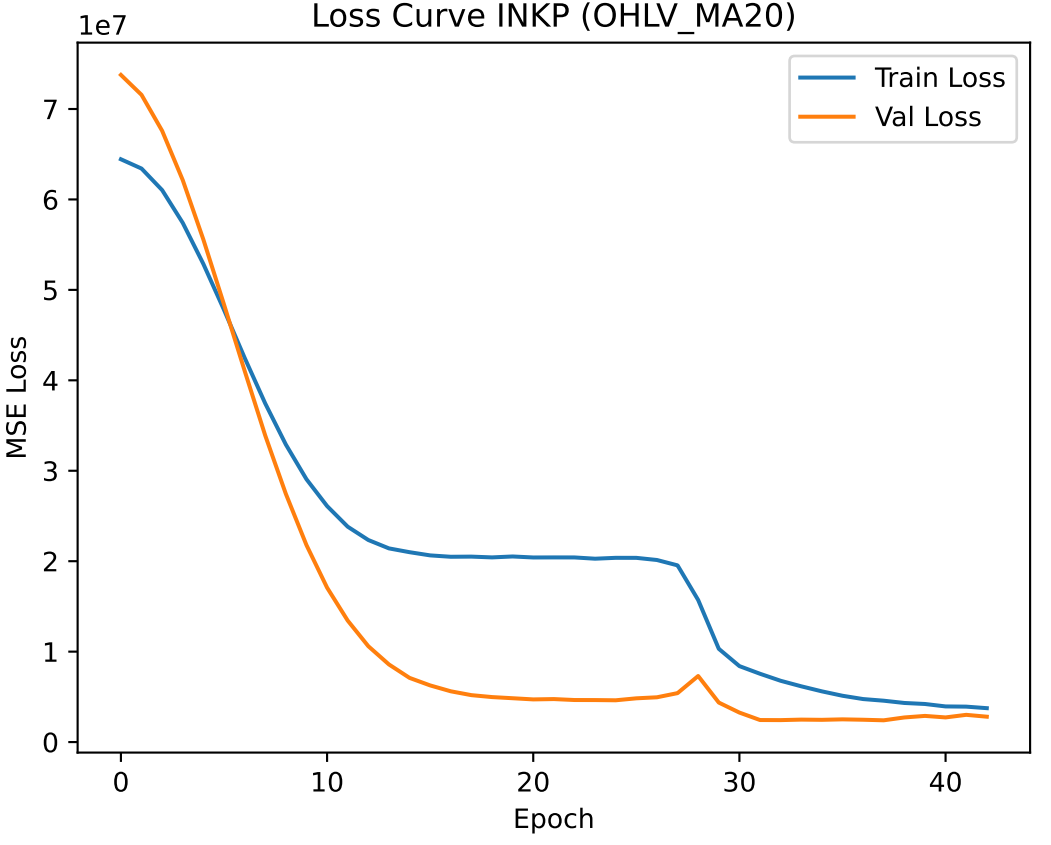

Loss Curve EXCL (OHLV_MA20)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

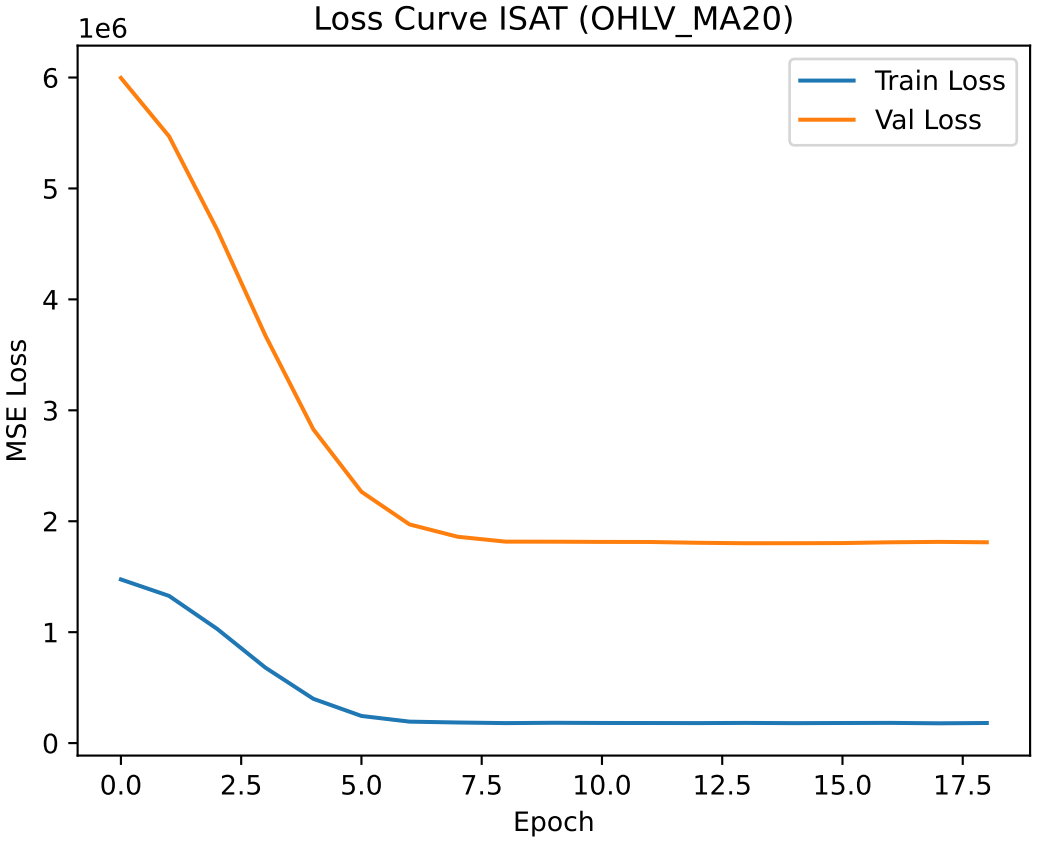

Loss Curve GOTO (OHLV_MA20)
Train Loss
Val Loss
MSE Loss
Epoch
20000
15000
10000
5000
0
0
2
4
6
8
10

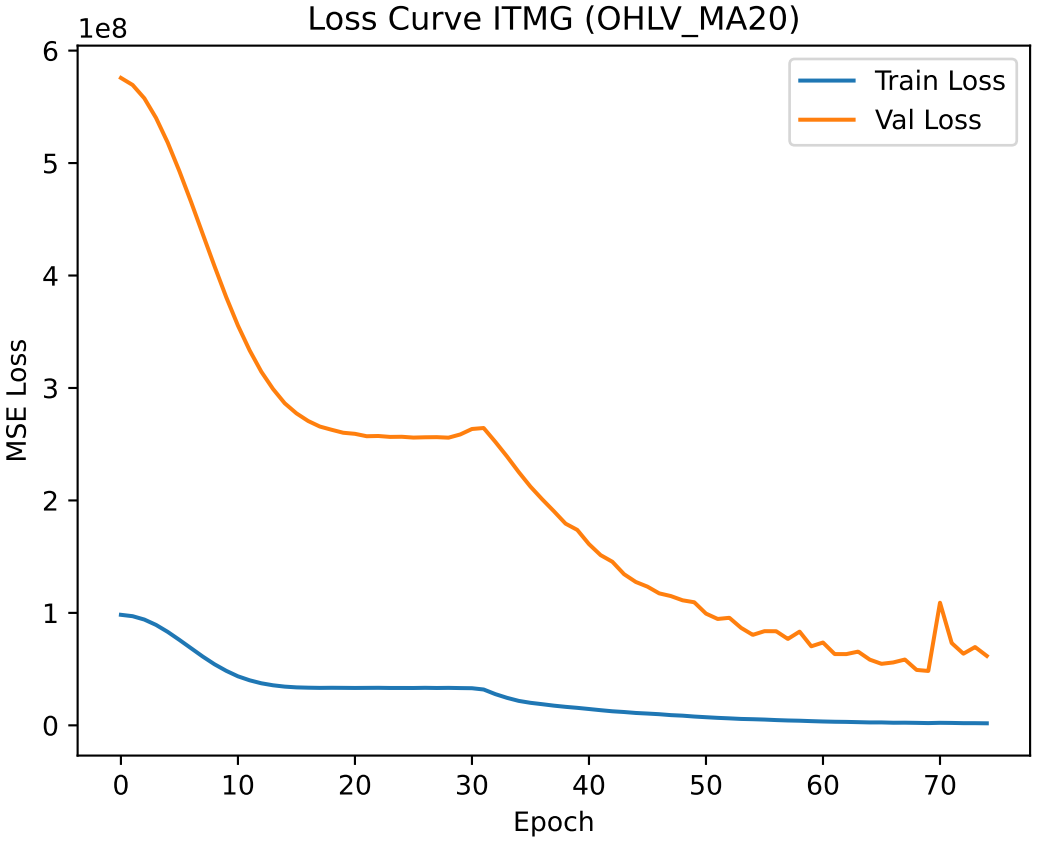

Loss Curve ICBP (OHLV_MA20)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

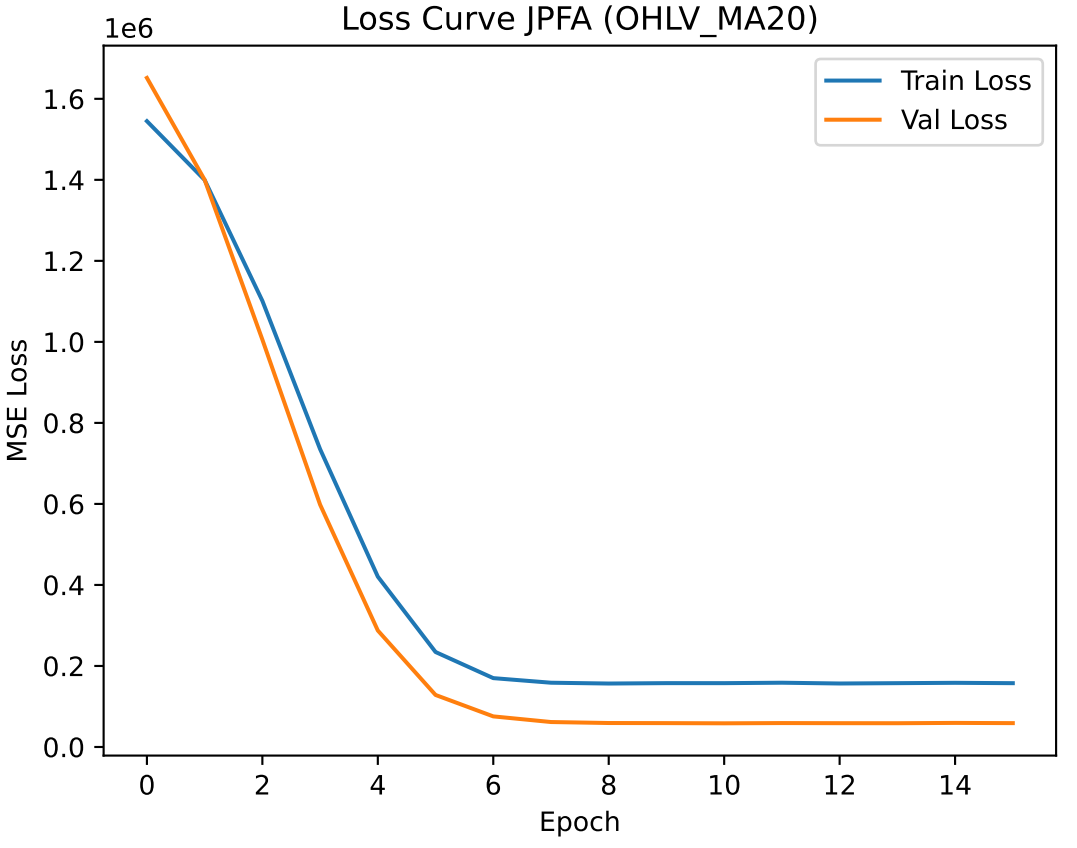

Loss Curve INCO (OHLV_MA20)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
Epoch

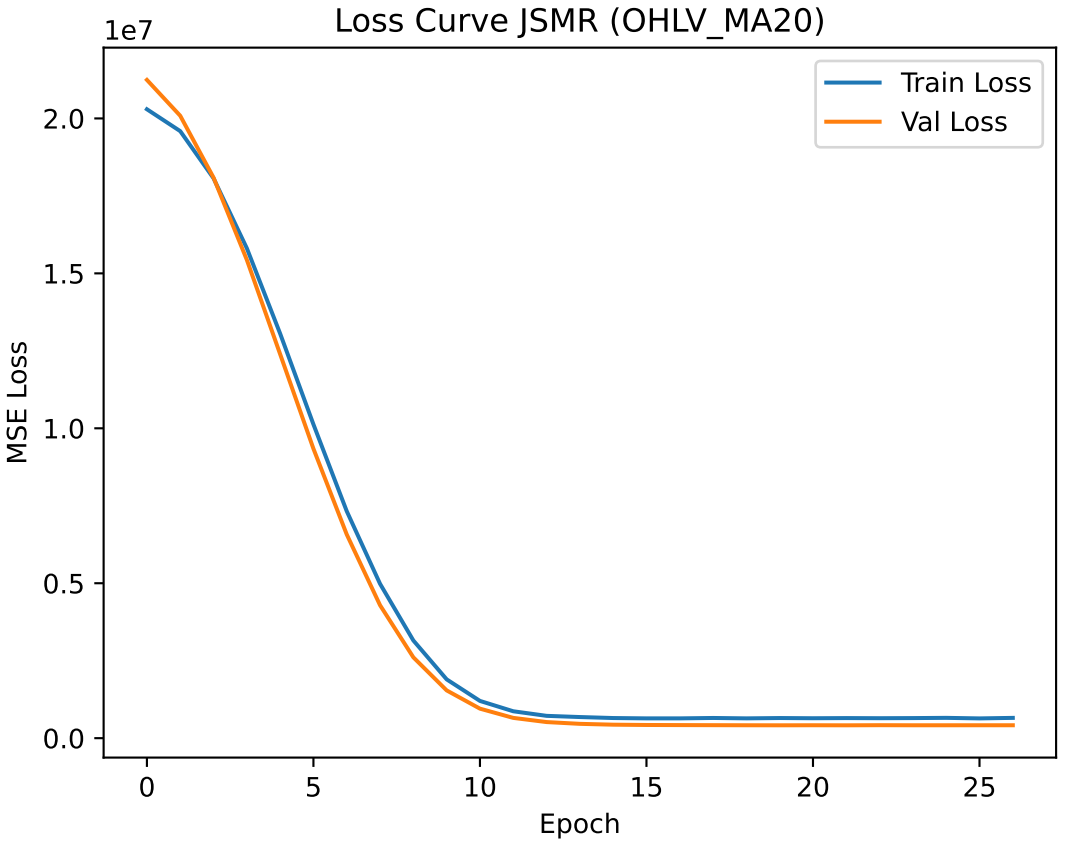

Loss Curve INDF (OHLV_MA20)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
0
5
10
15
20
25

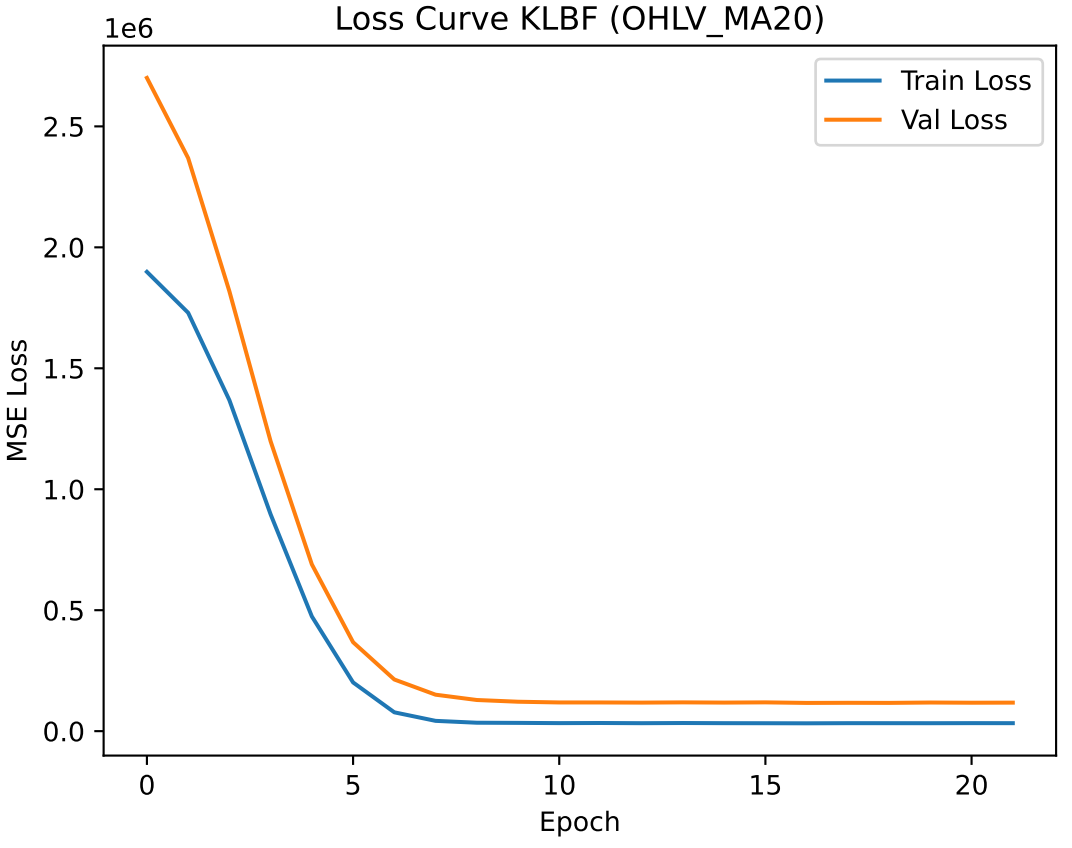

Loss Curve INKP (OHLV_MA20)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
7
0
10
20
30
40

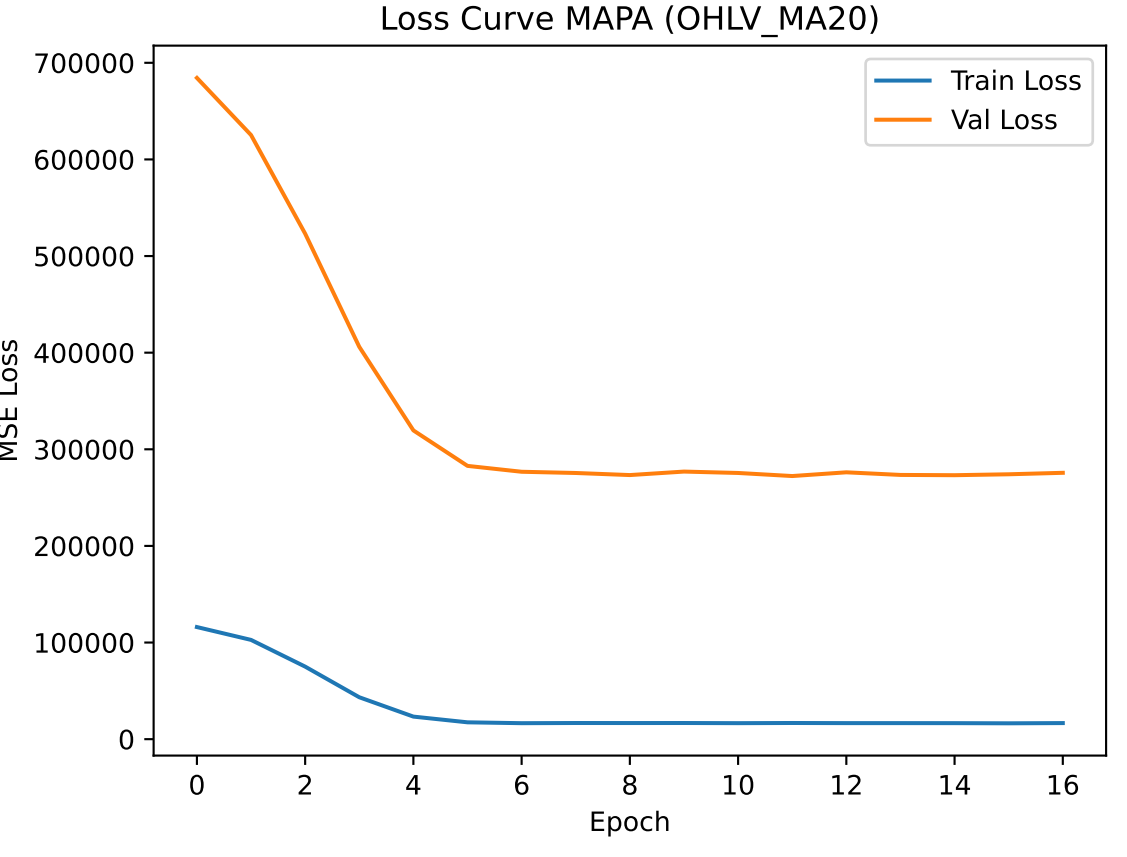

Loss Curve ISAT (OHLV_MA20)
1e6
6
5
4
3
2
1
0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

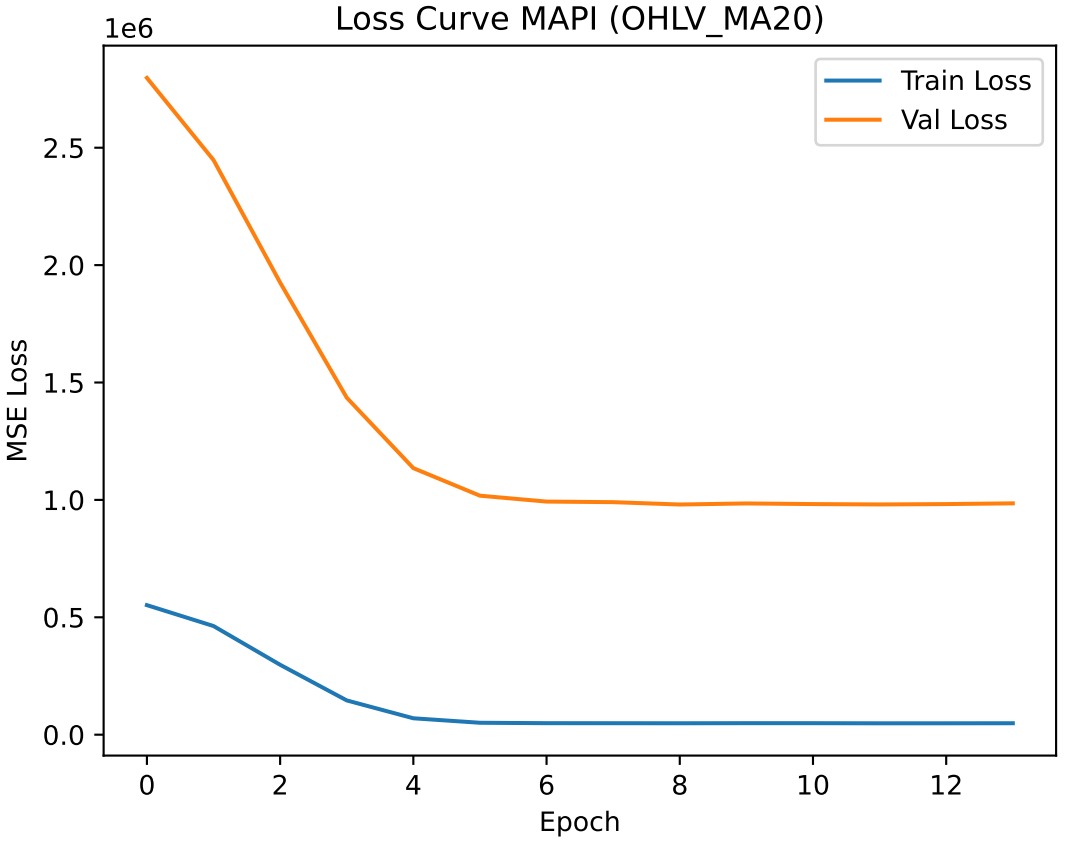

Loss Curve ITMG (OHLV_MA20)
1e8
6
5
4
3
2
1
0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
60
70
Epoch

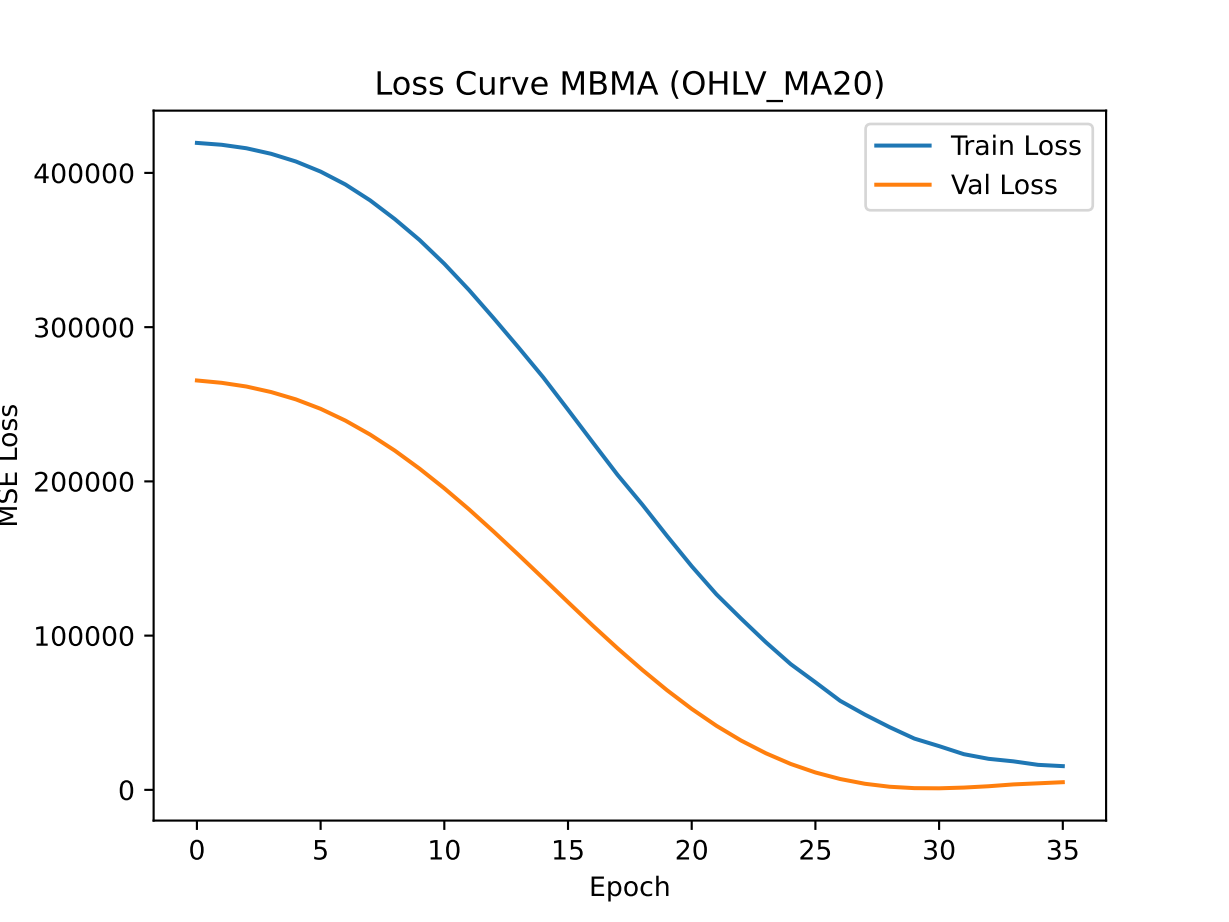

Loss Curve JPFA (OHLV_MA20)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14

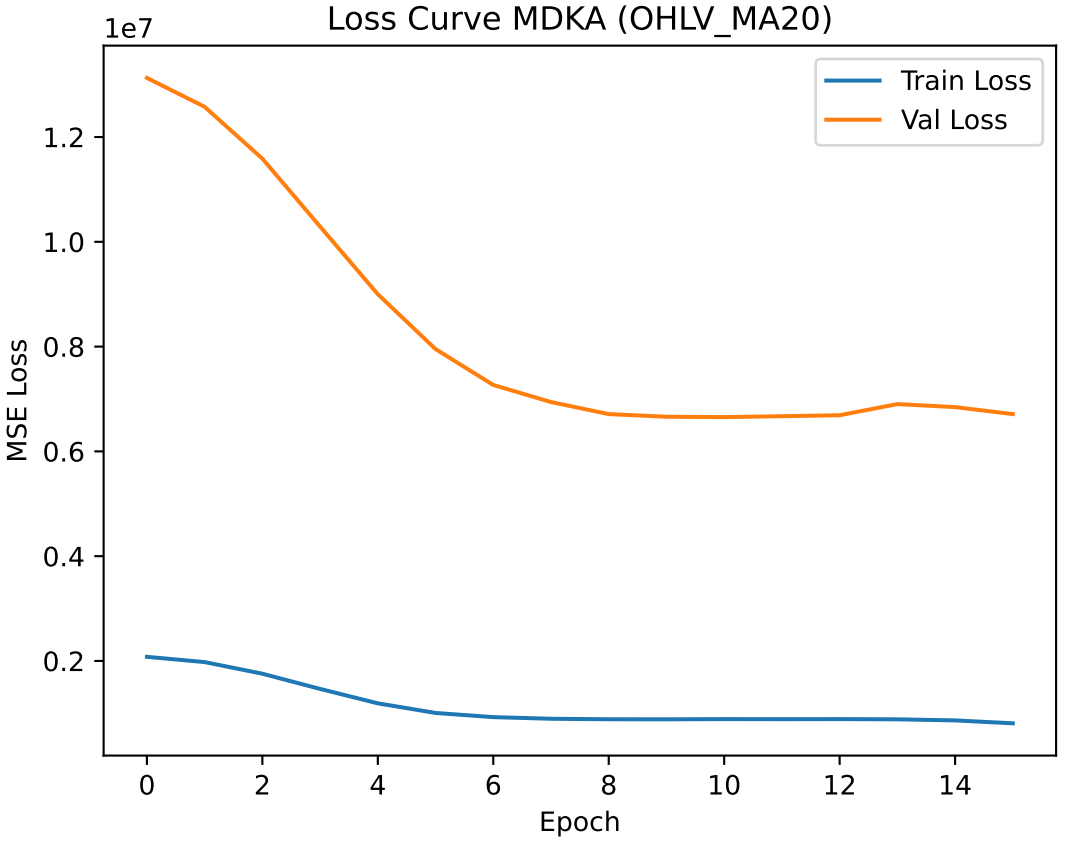

Loss Curve JSMR (OHLV_MA20)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

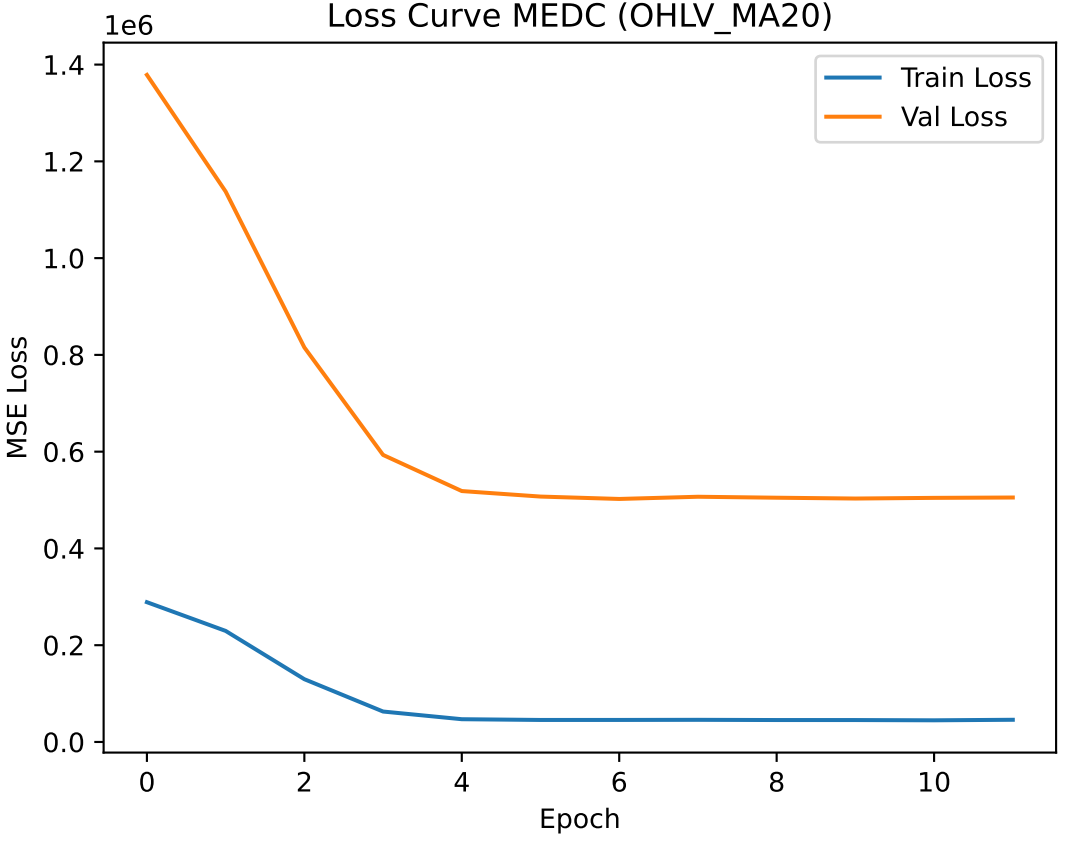

Loss Curve KLBF (OHLV_MA20)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
Epoch

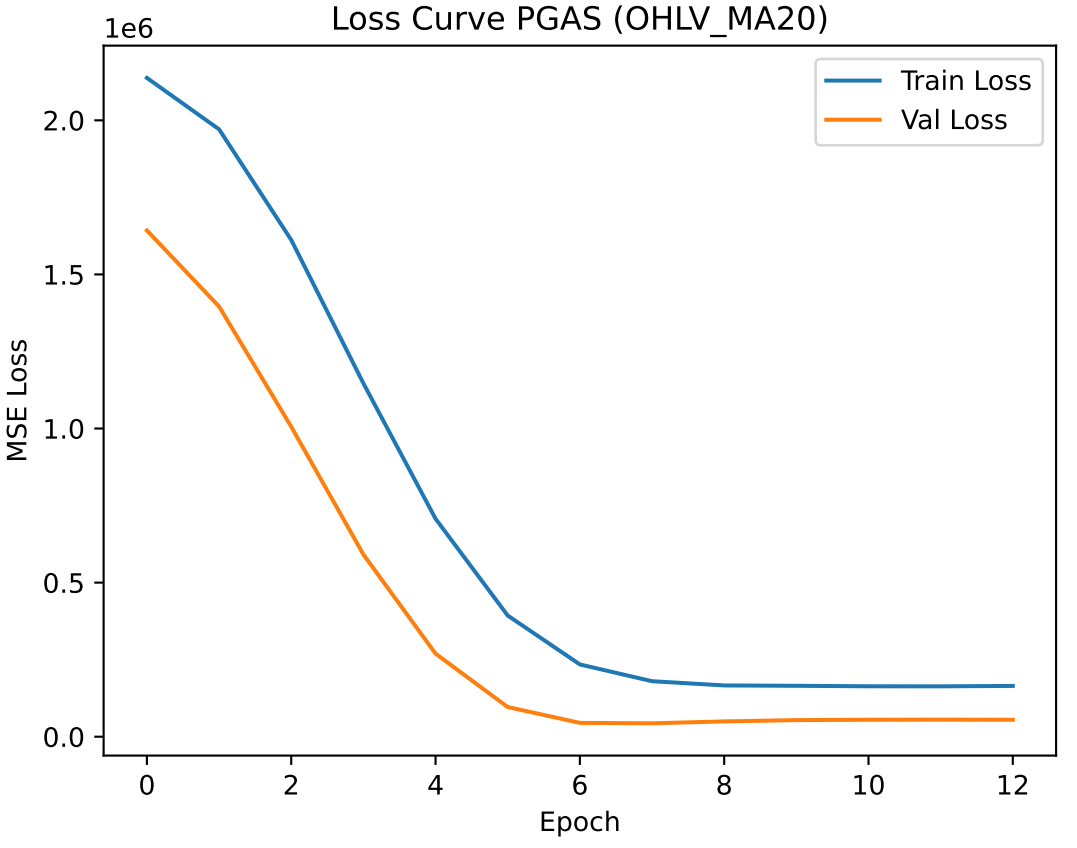

Loss Curve MAPA (OHLV_MA20)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14
16

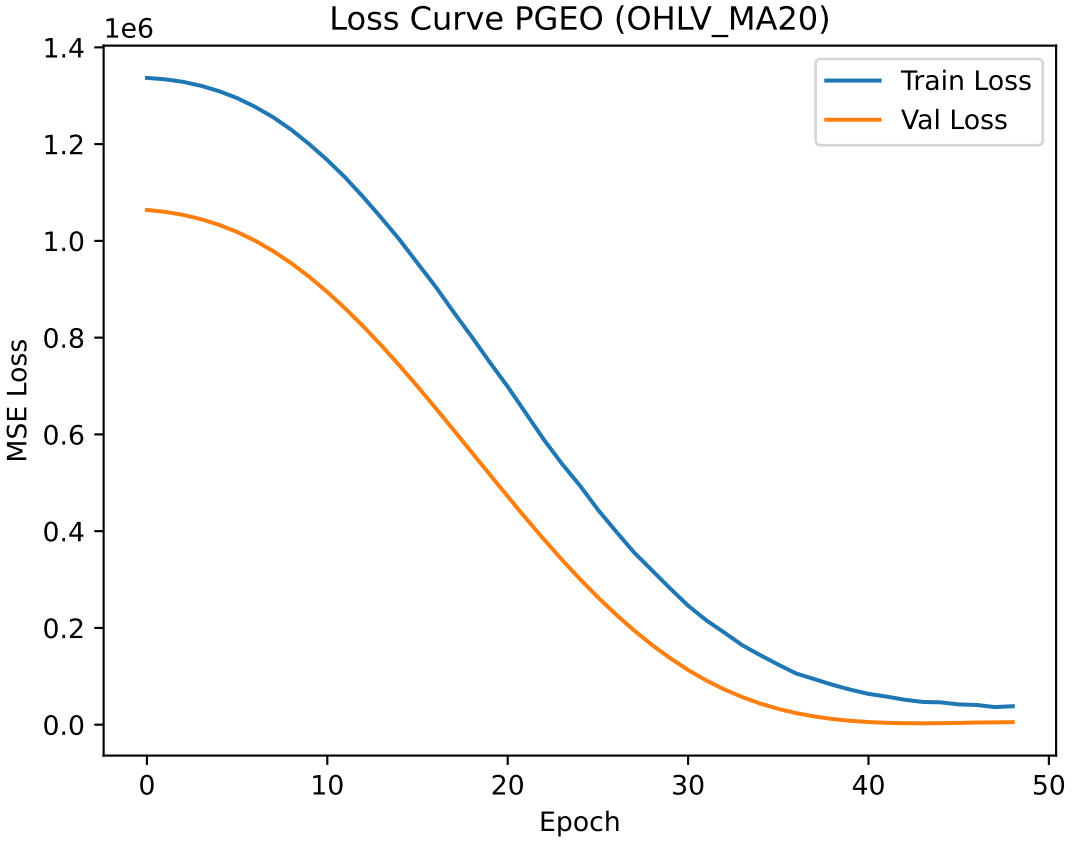

Loss Curve MAPI (OHLV_MA20)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch

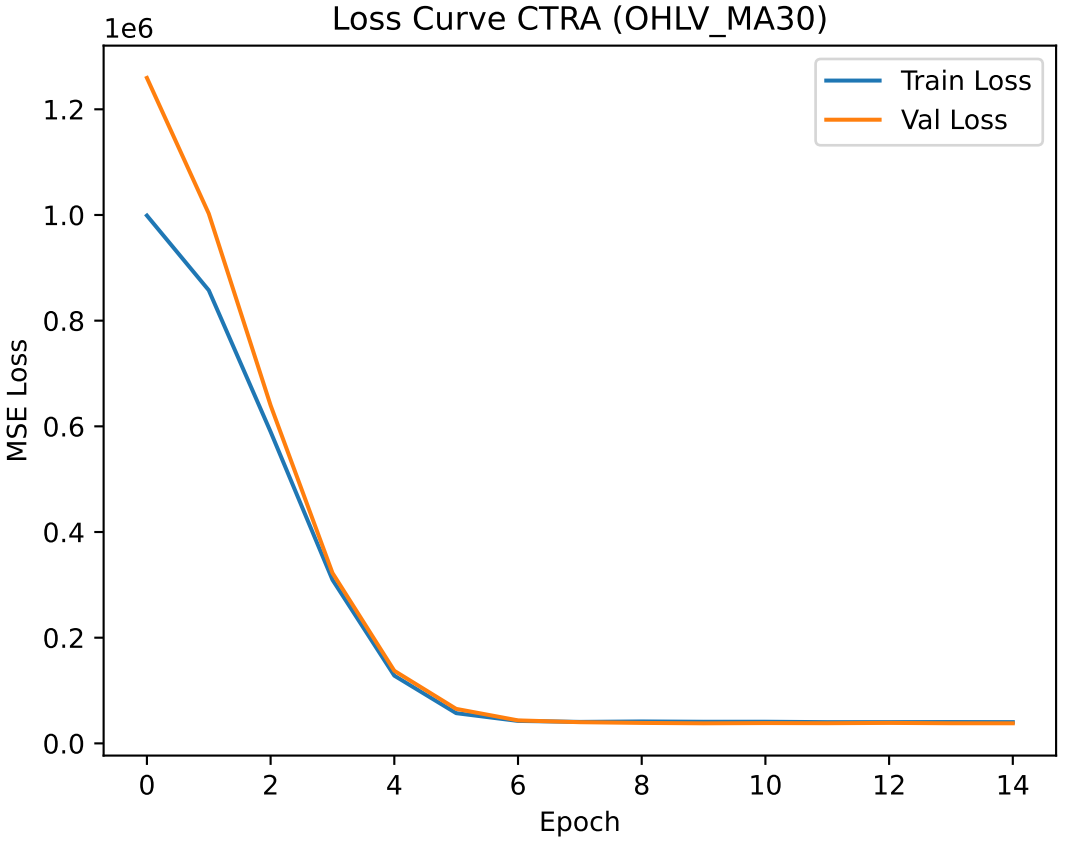

Loss Curve MBMA (OHLV_MA20)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

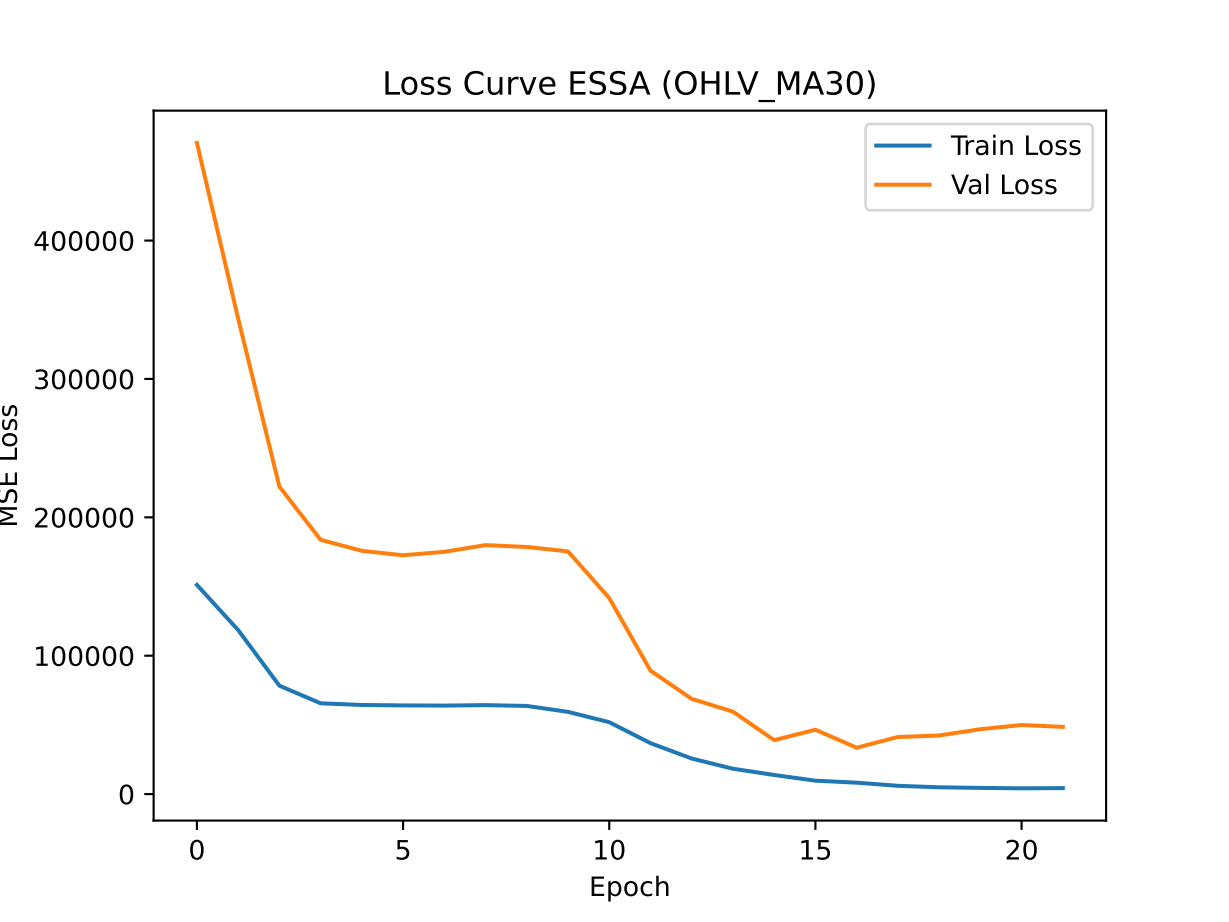

Loss Curve MDKA (OHLV_MA20)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0
2
4
6
8
10
12
14
Epoch

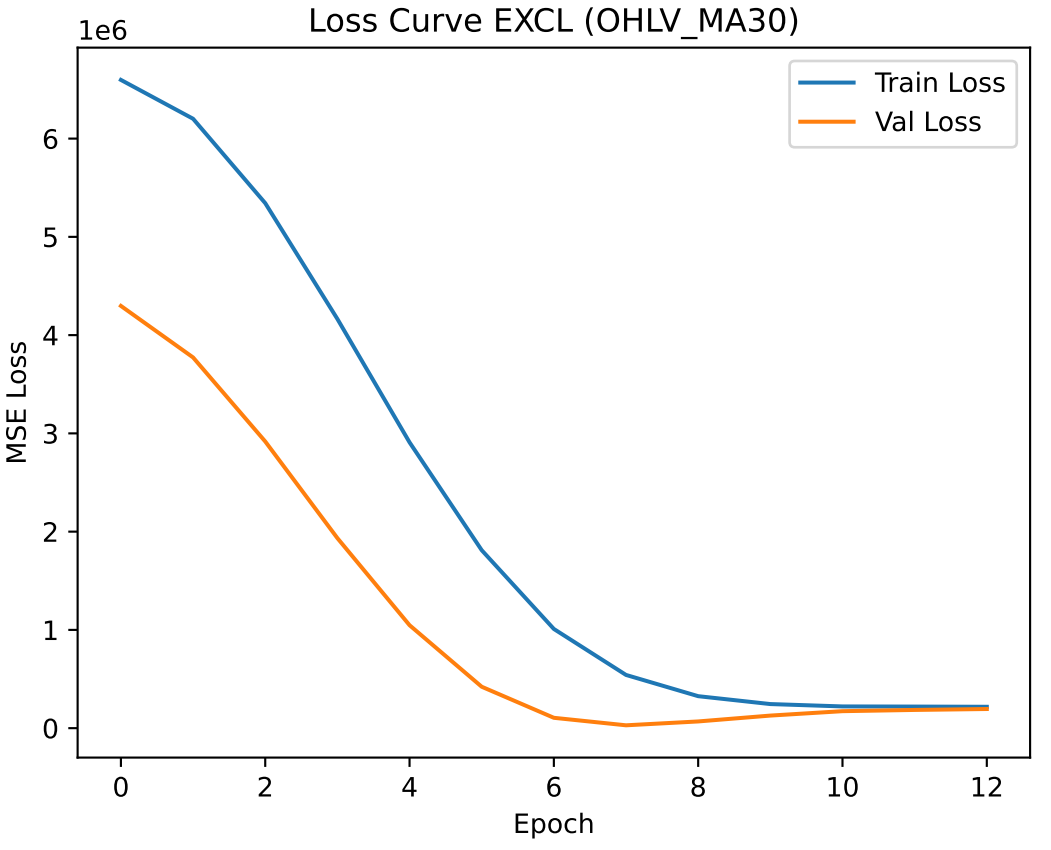

Loss Curve MEDC (OHLV_MA20)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
Epoch

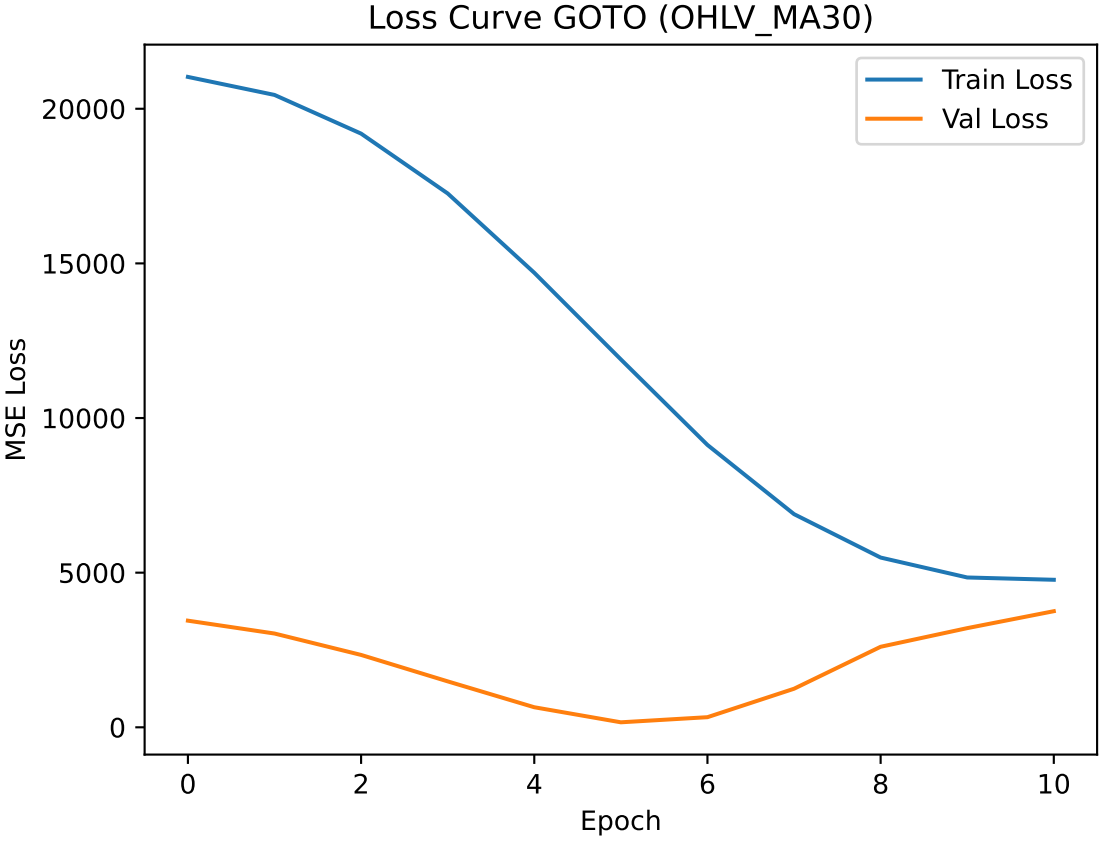

Loss Curve PGAS (OHLV_MA20)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
12
Epoch
Train Loss
Val Loss

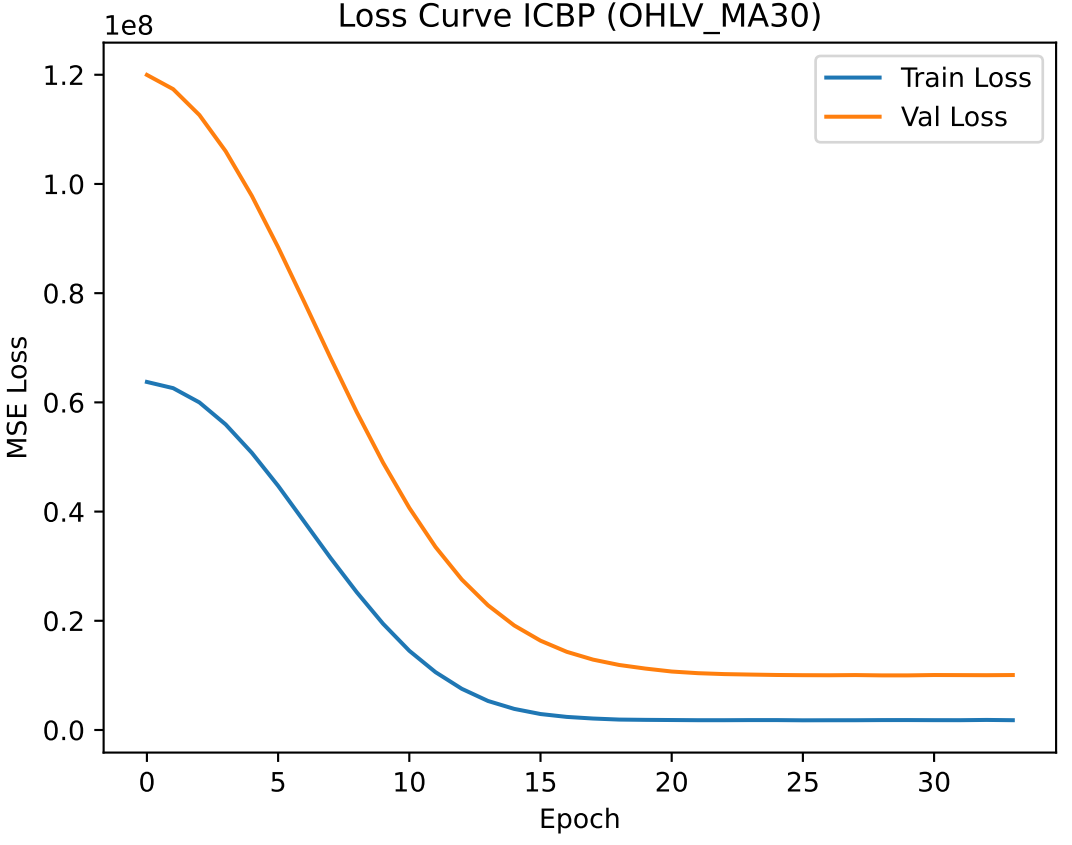

Loss Curve PGEO (OHLV_MA20)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

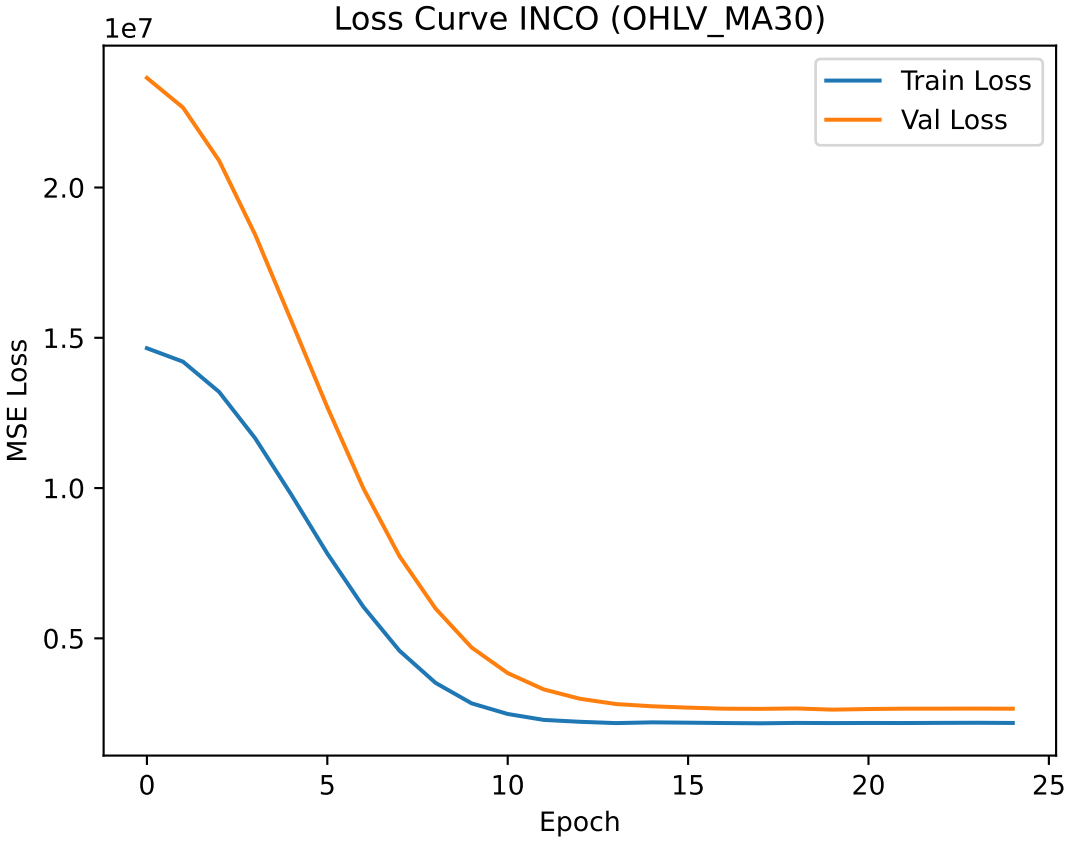

Loss Curve CTRA (OHLV_MA30)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12
14

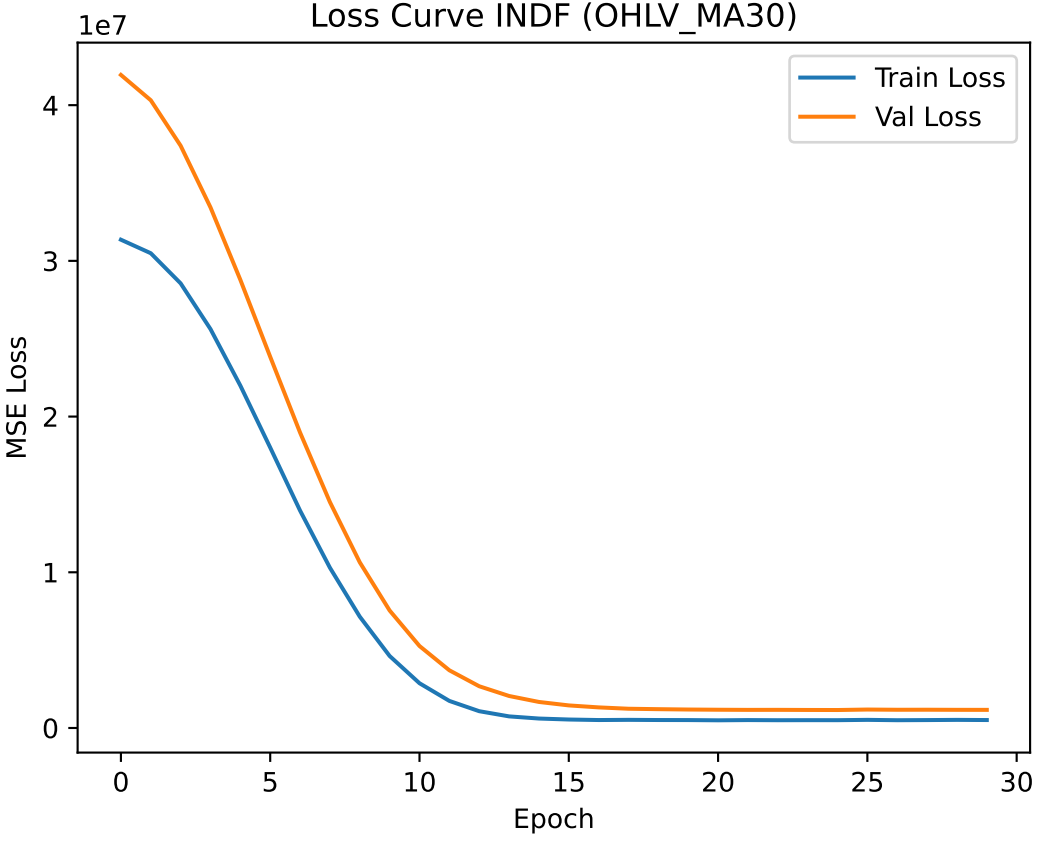

Loss Curve ESSA (OHLV_MA30)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
Epoch


Loss Curve EXCL (OHLV_MA30)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12


Loss Curve GOTO (OHLV_MA30)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch


Loss Curve ICBP (OHLV_MA30)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch


Loss Curve INCO (OHLV_MA30)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
Epoch


Loss Curve INDF (OHLV_MA30)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
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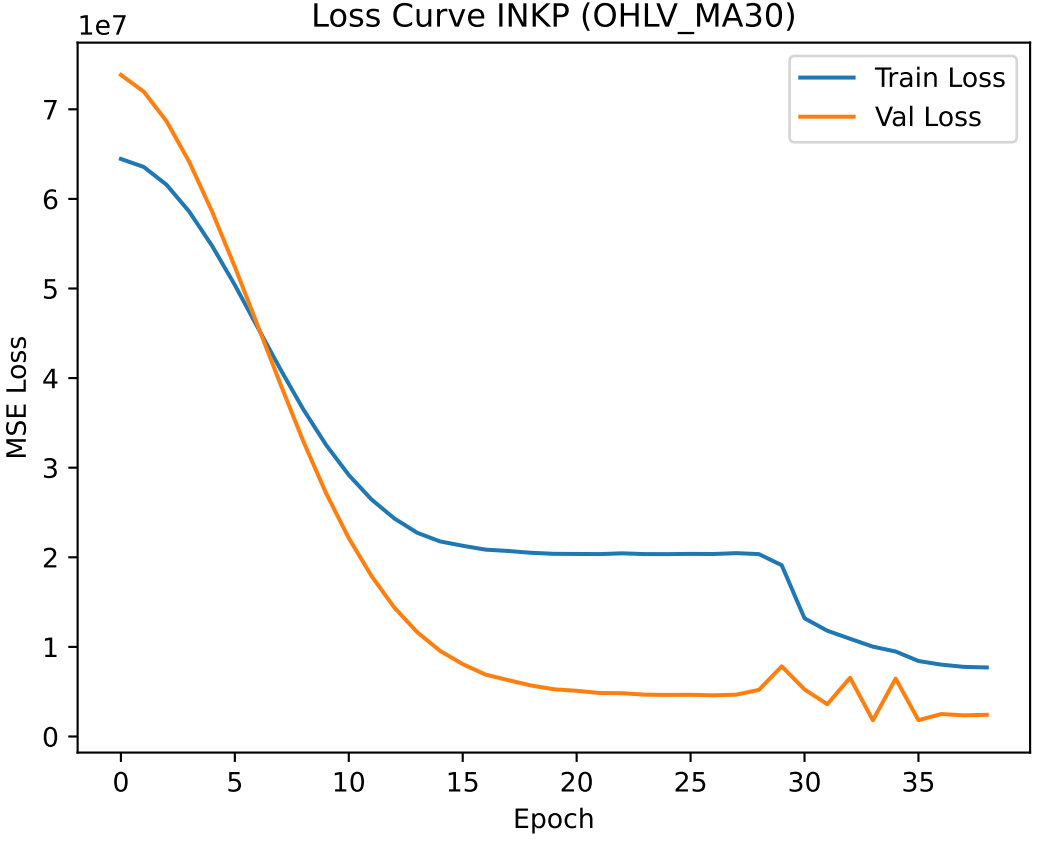
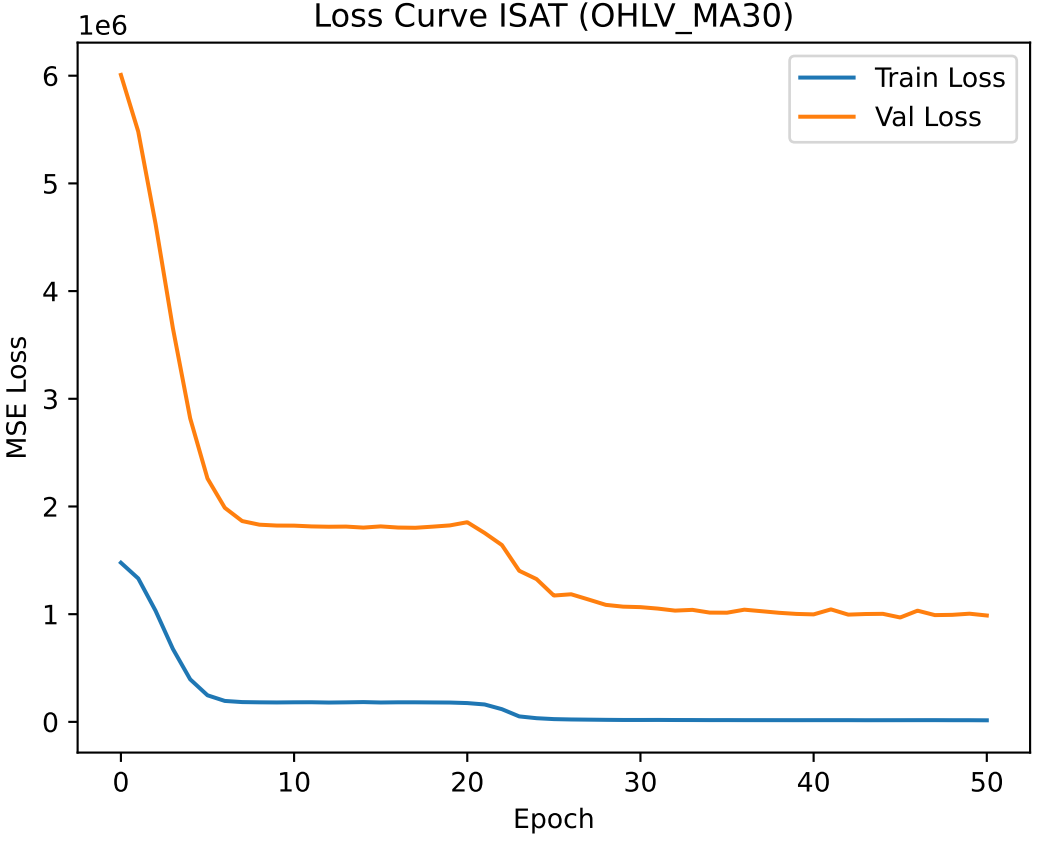
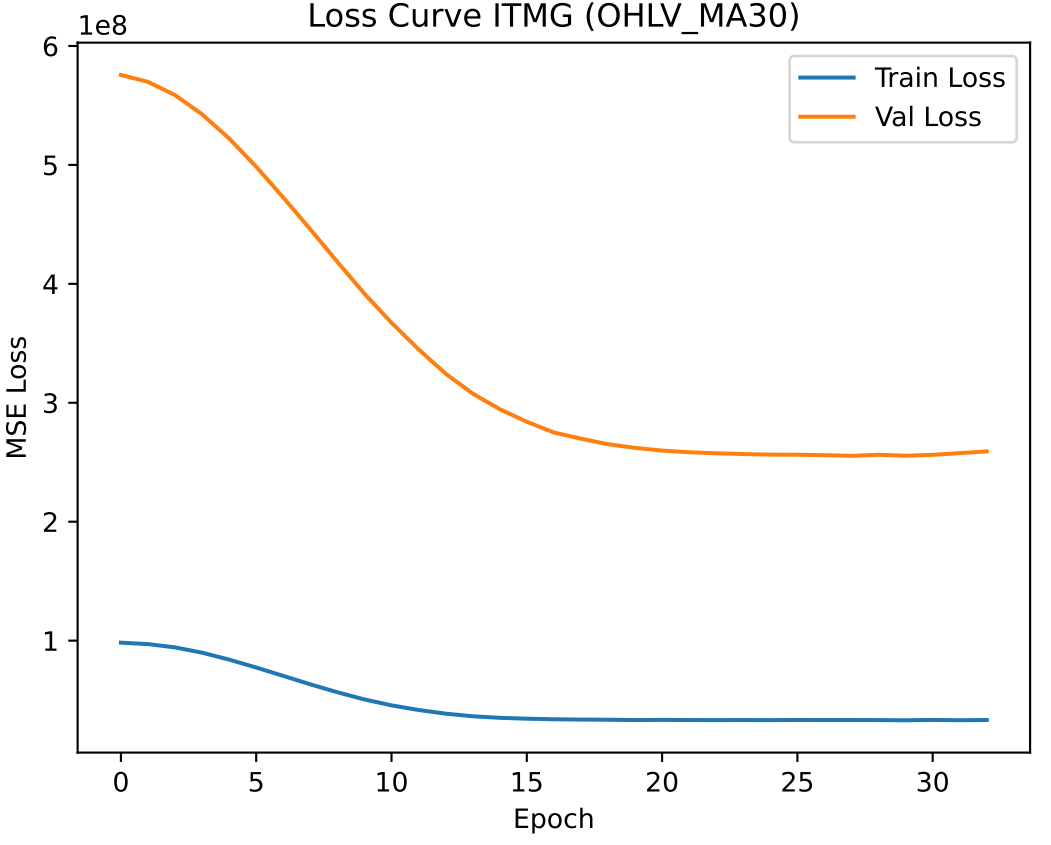
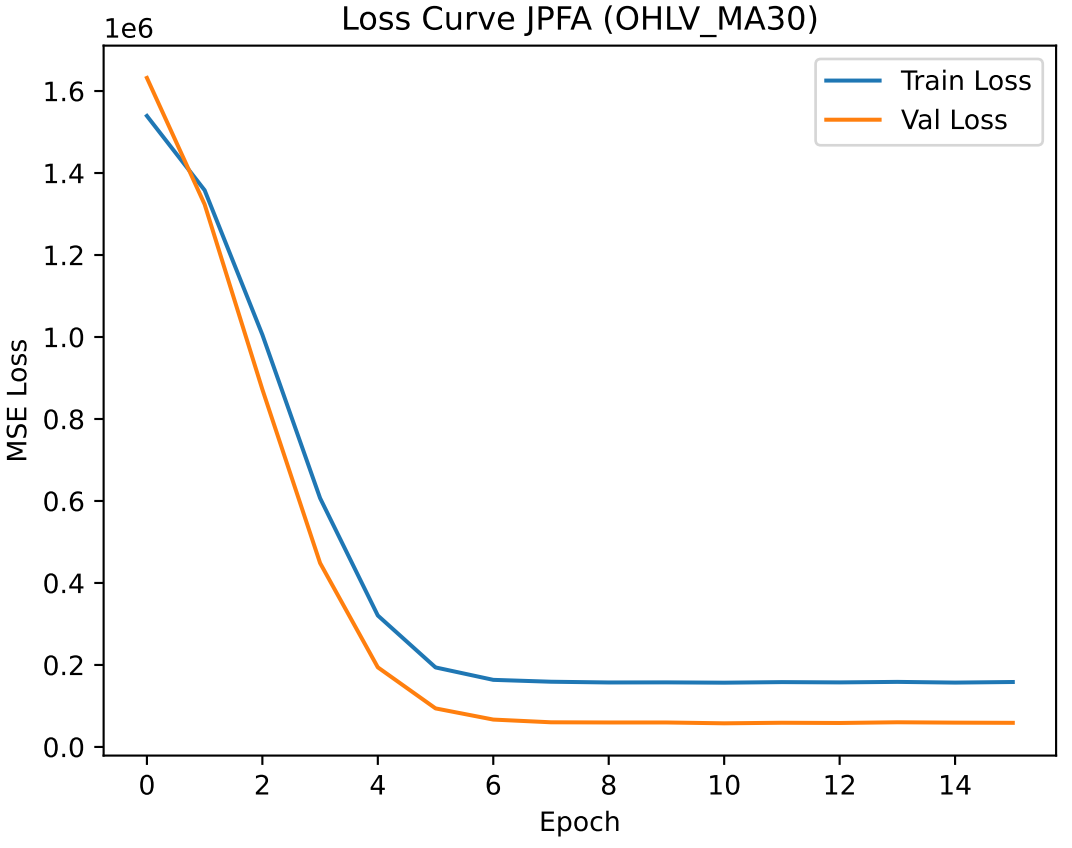
15
20
25
30


Loss Curve INKP (OHLV_MA30)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
7
0
5
10
15
20
25
30
35


Loss Curve ISAT (OHLV_MA30)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
10
20
30
40
50


Loss Curve ITMG (OHLV_MA30)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch


Loss Curve JPFA (OHLV_MA30)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
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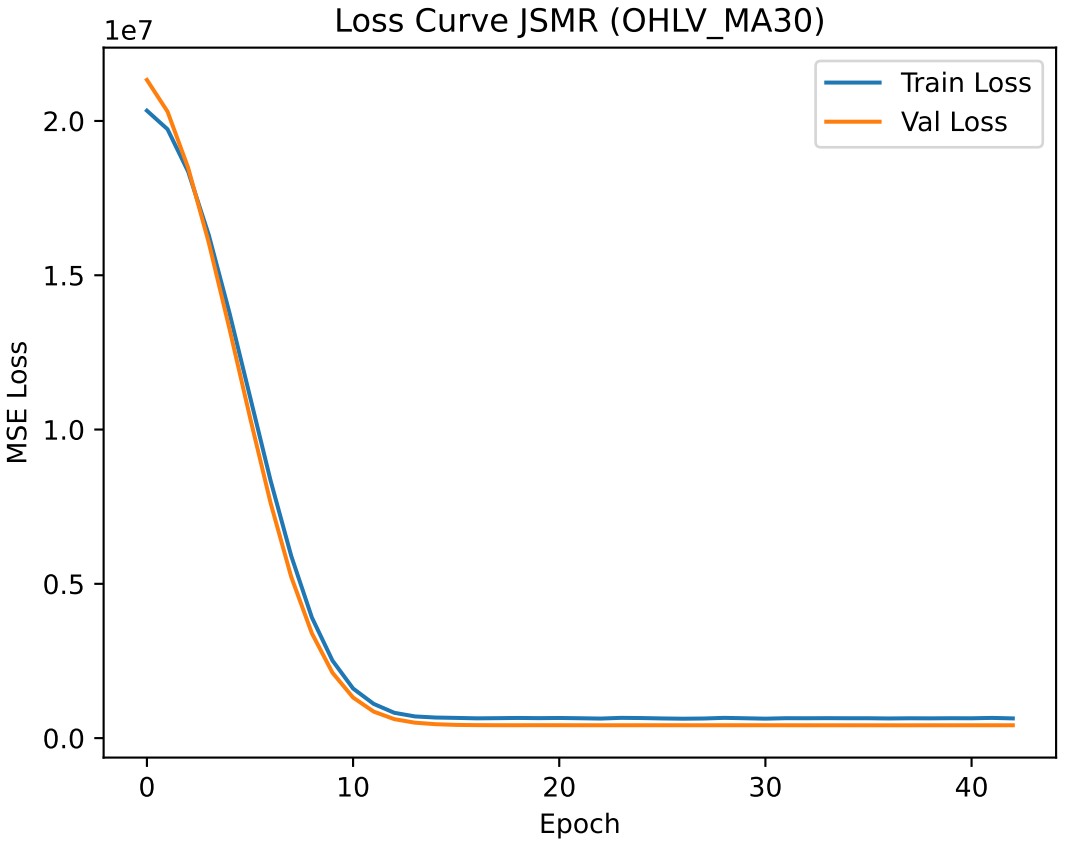
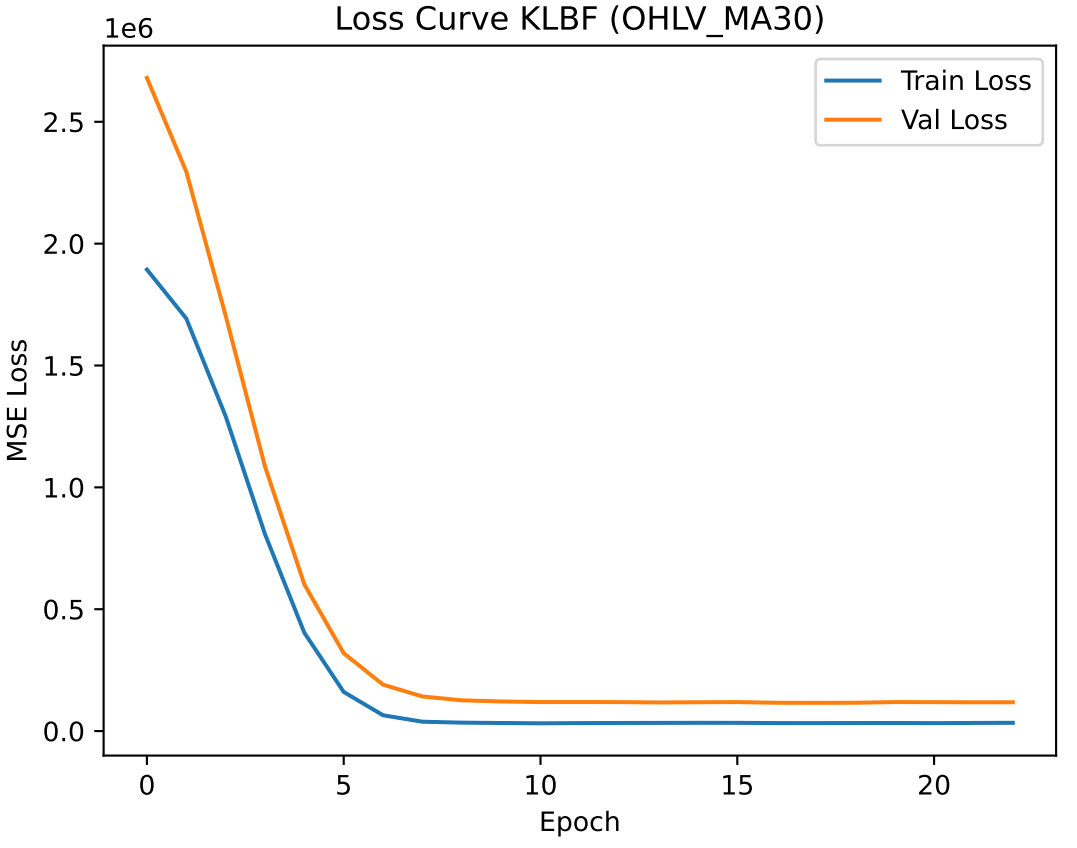
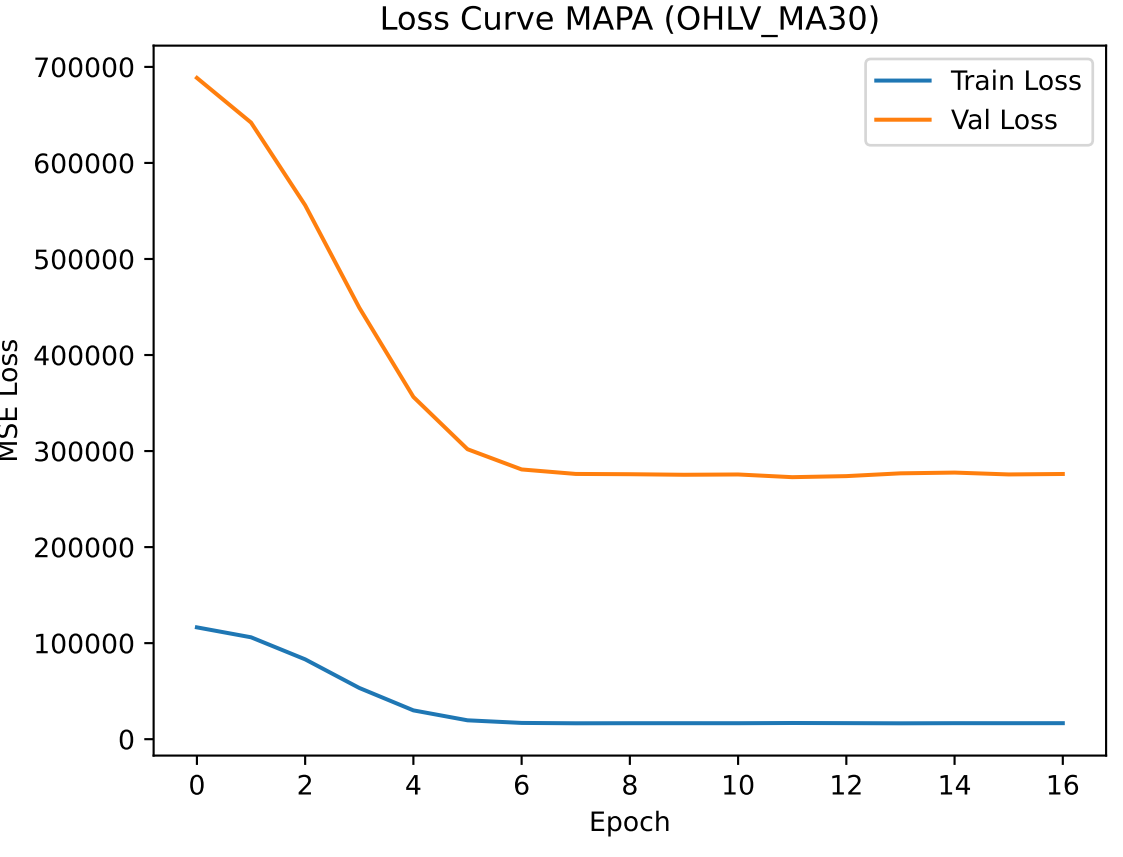
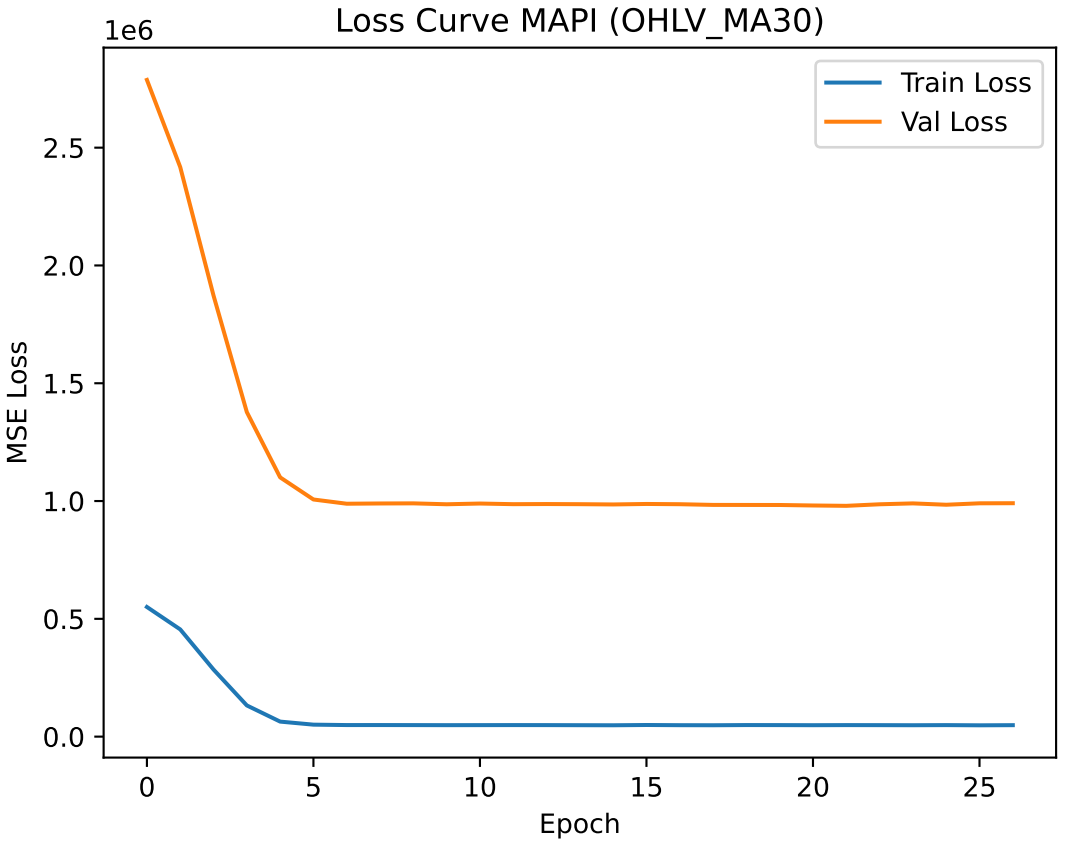
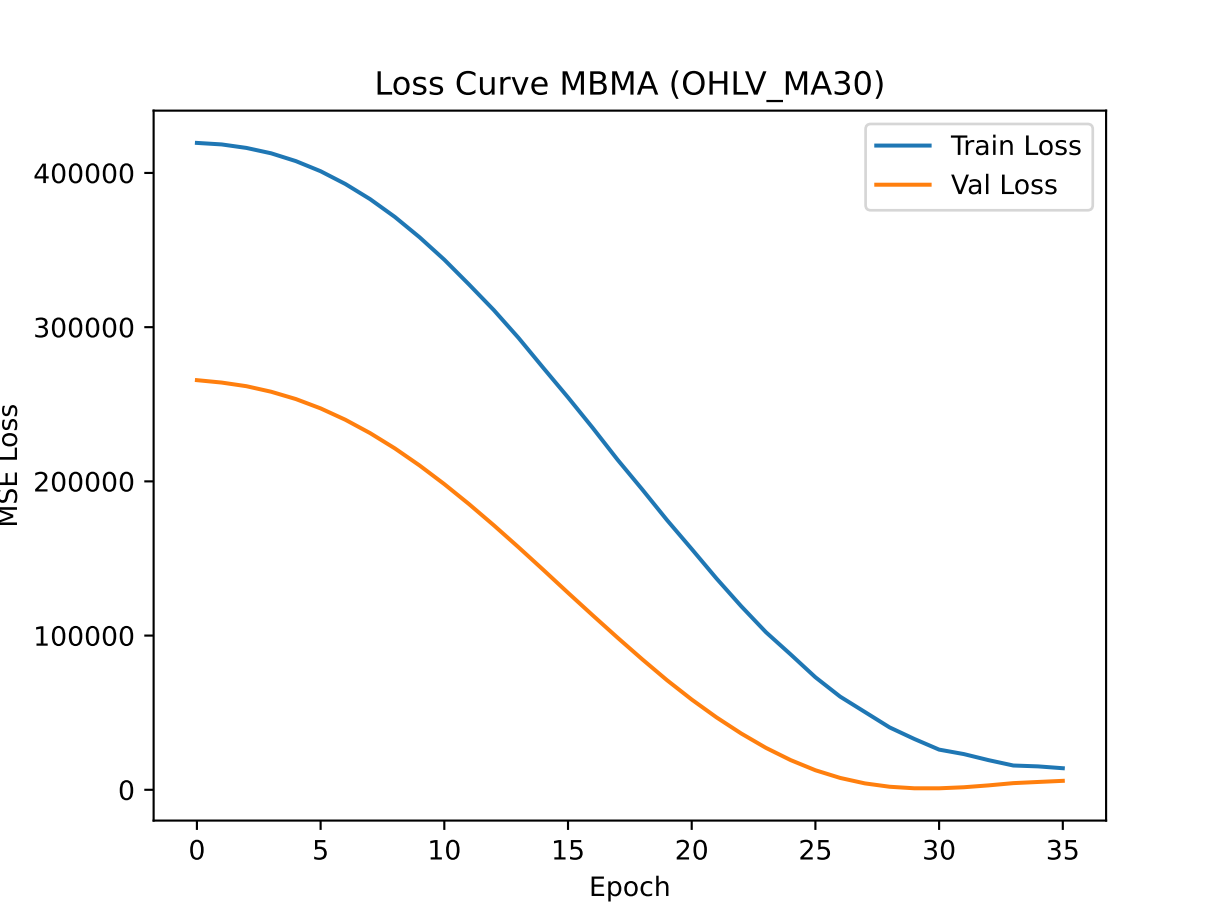
8
10
12
14

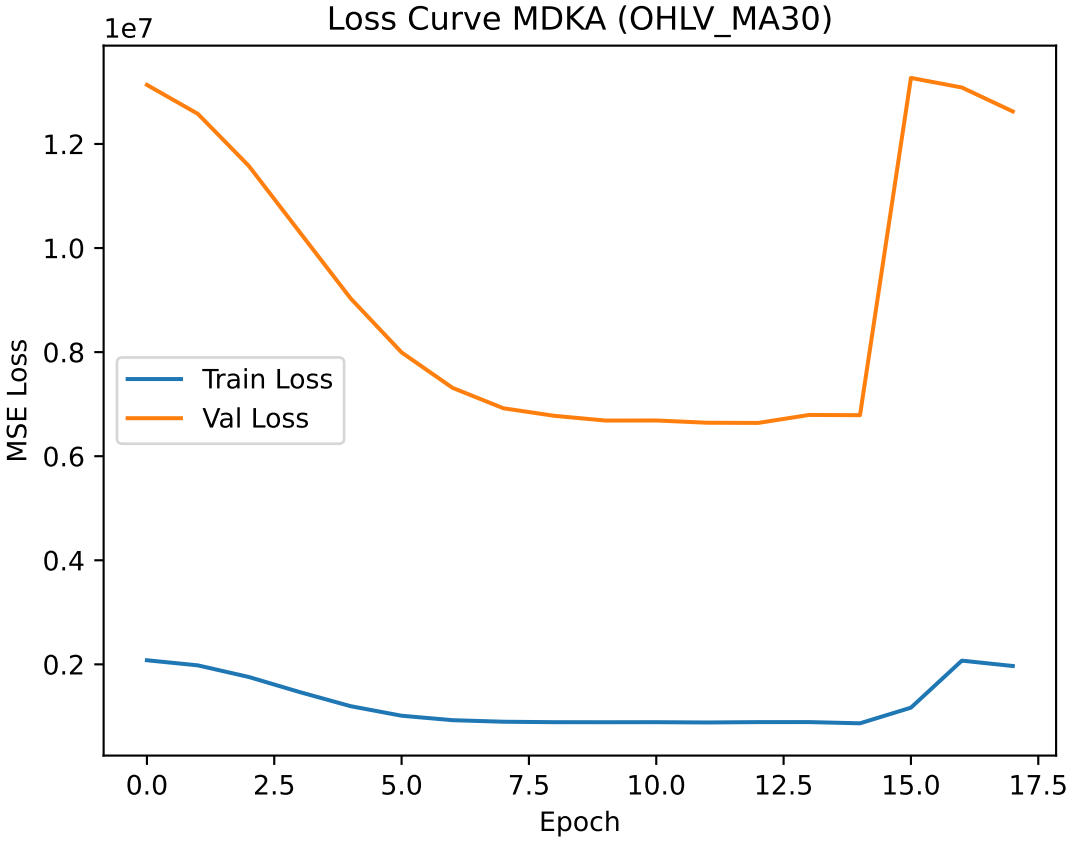

Loss Curve JSMR (OHLV_MA30)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
10
20
30
40
Epoch

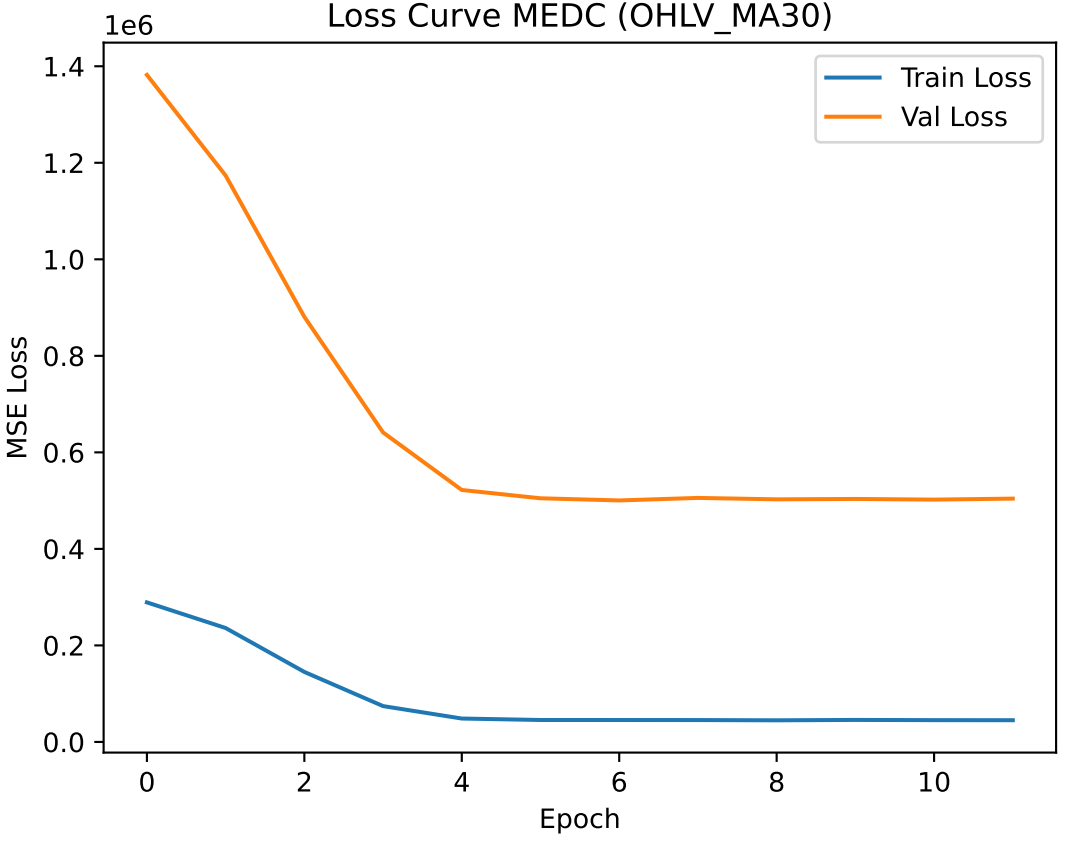

Loss Curve KLBF (OHLV_MA30)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
Epoch

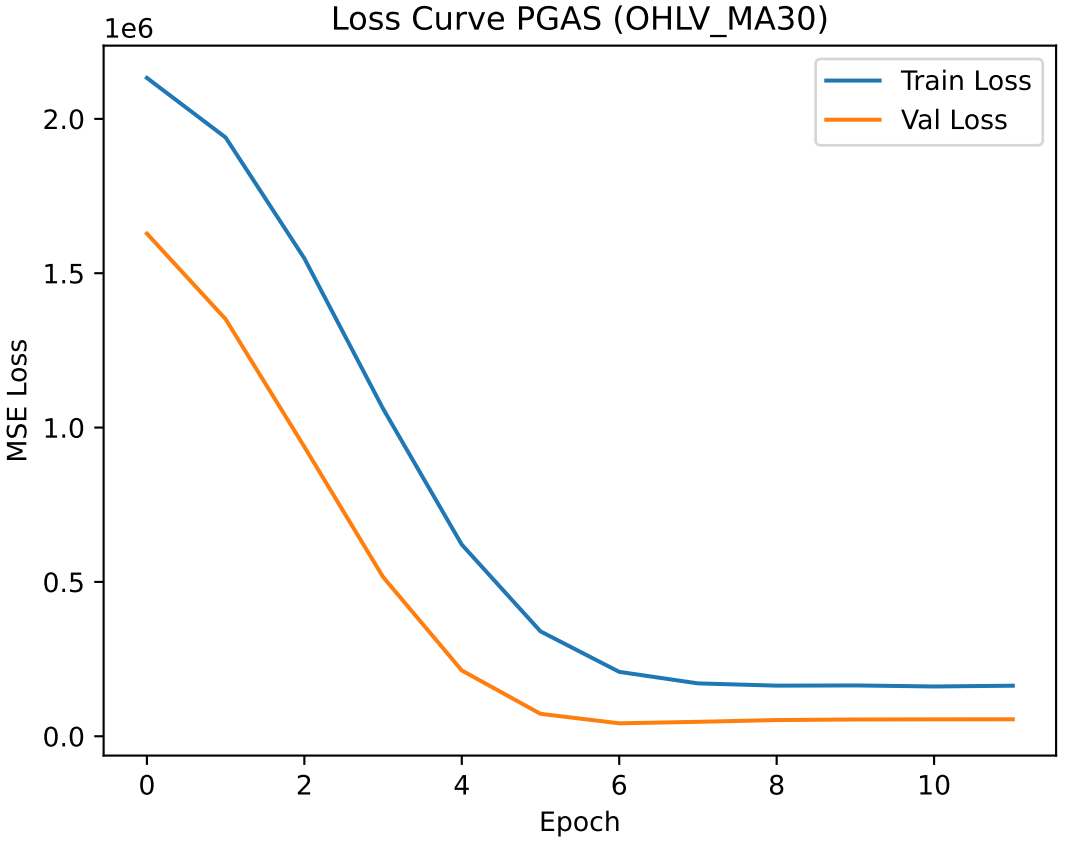

Loss Curve MAPA (OHLV_MA30)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14
16

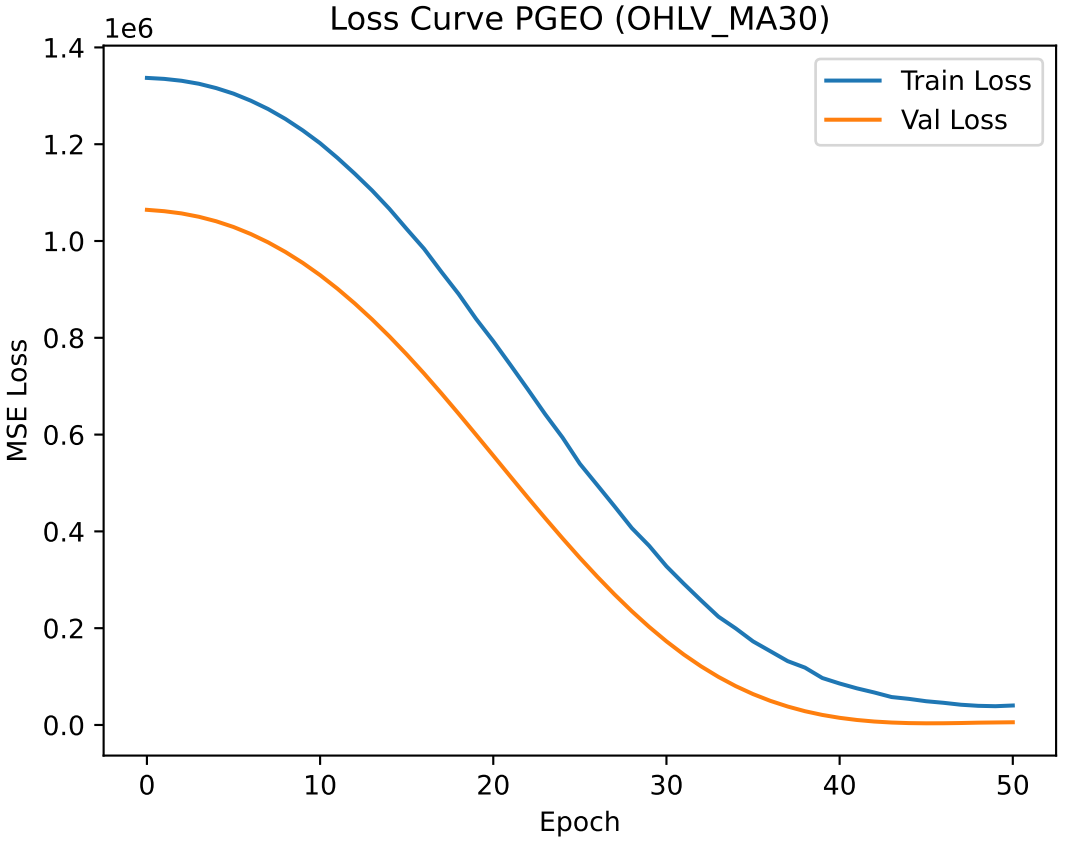

Loss Curve MAPI (OHLV_MA30)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

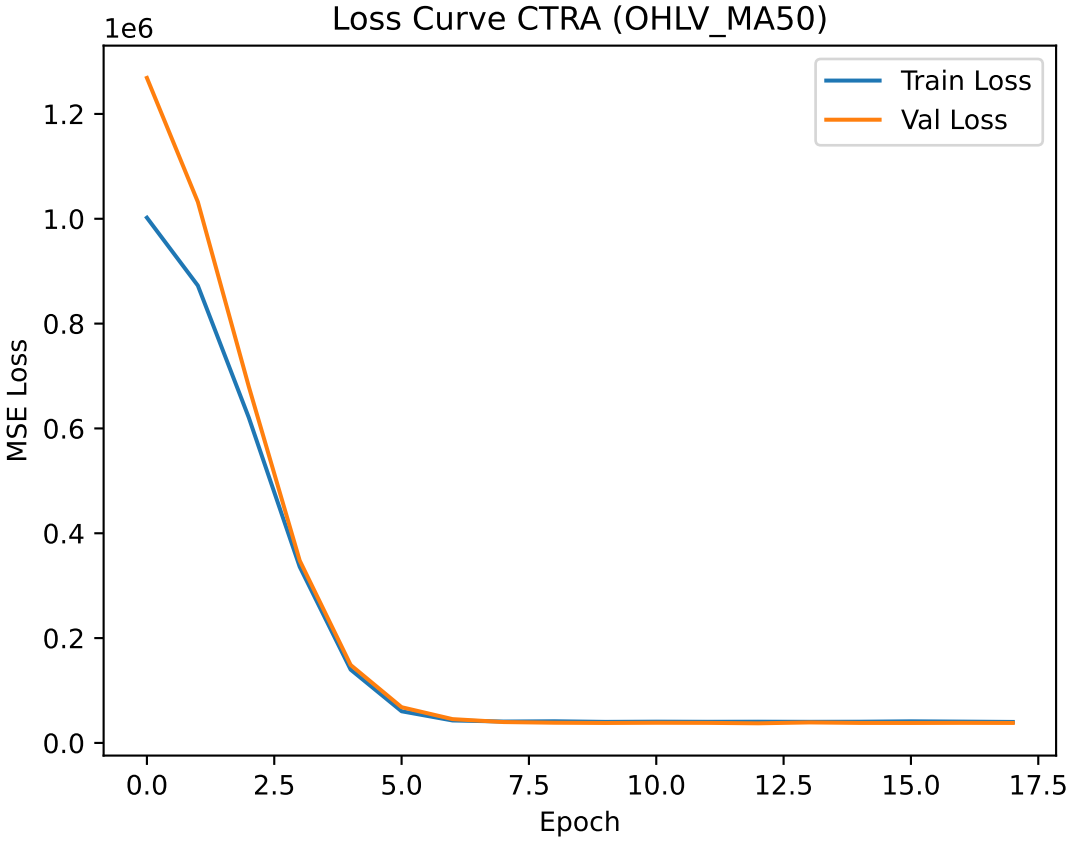

Loss Curve MBMA (OHLV_MA30)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

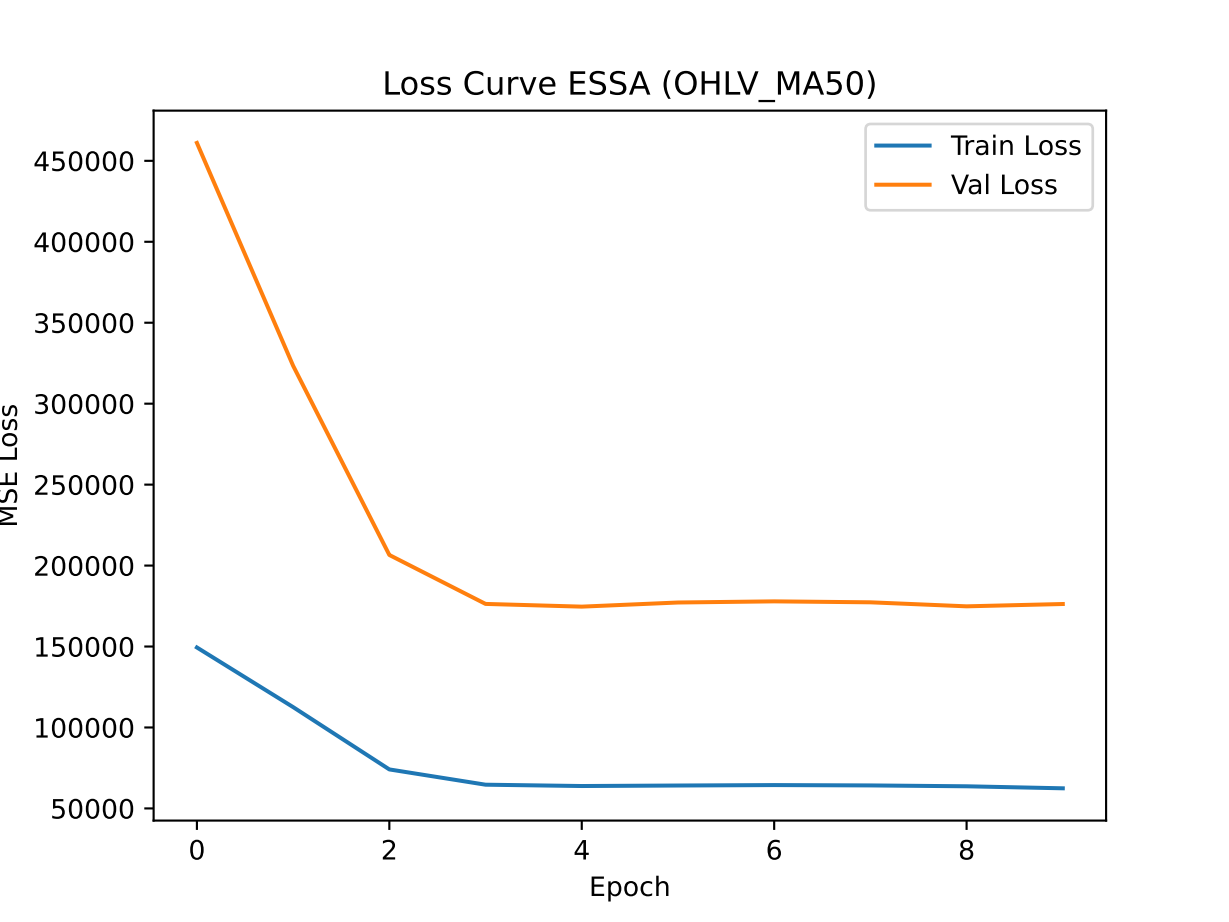

Loss Curve MDKA (OHLV_MA30)
1e7
1.2
1.0
0.8
0.6
0.4
0.2
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch


Loss Curve MEDC (OHLV_MA30)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
Epoch


Loss Curve PGAS (OHLV_MA30)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch


Loss Curve PGEO (OHLV_MA30)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch


Loss Curve CTRA (OHLV_MA50)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5


Loss Curve ESSA (OHLV_MA50)
Train Loss
Val Loss
MSE Loss
Epoch
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
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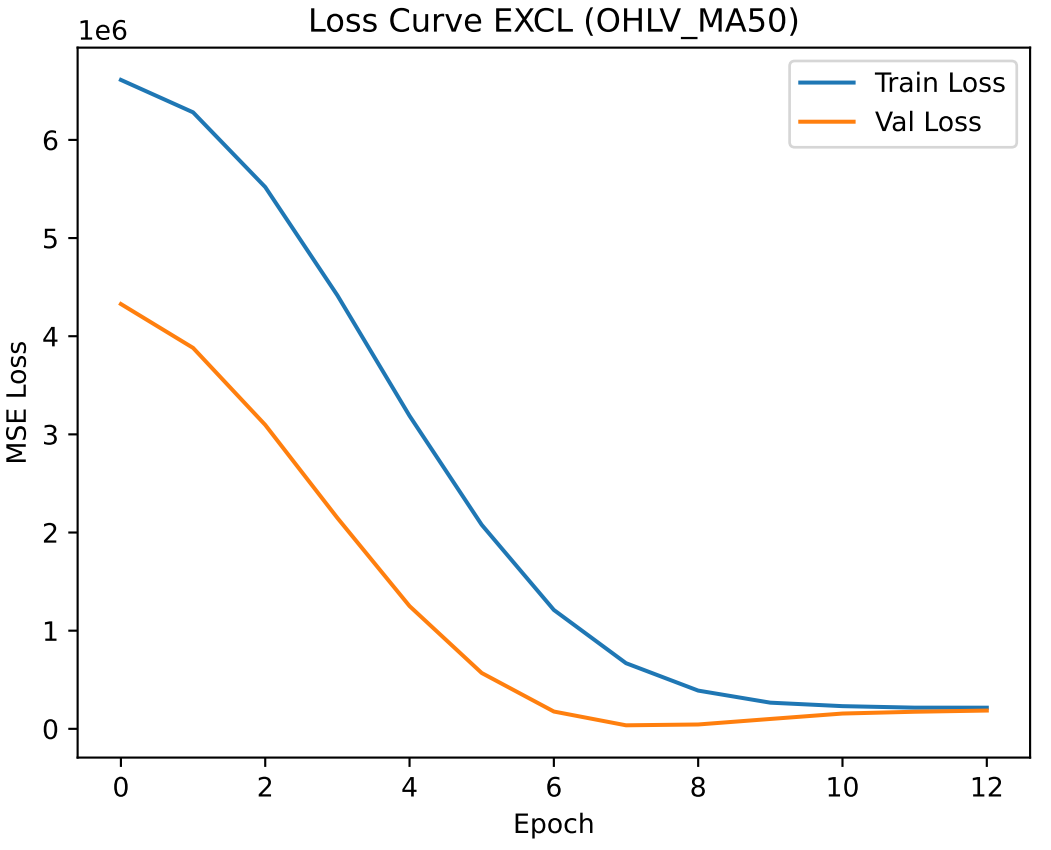
4
6
8


Loss Curve EXCL (OHLV_MA50)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
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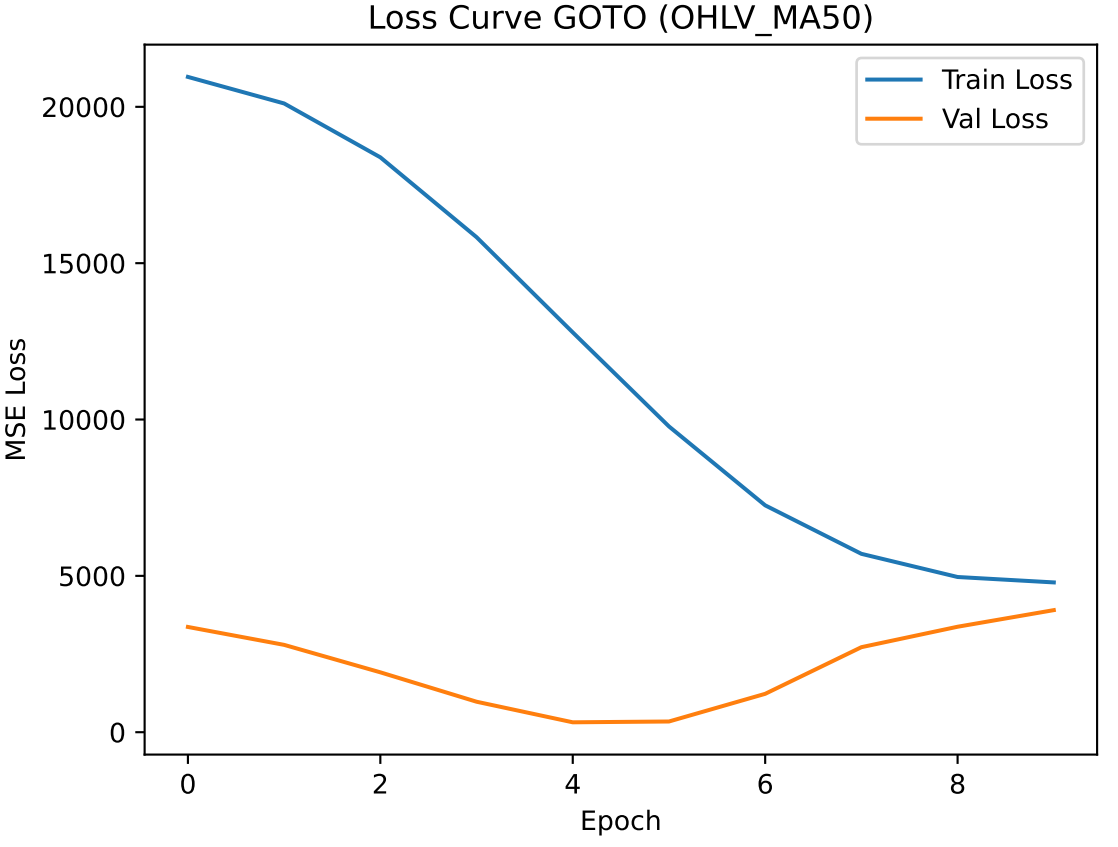
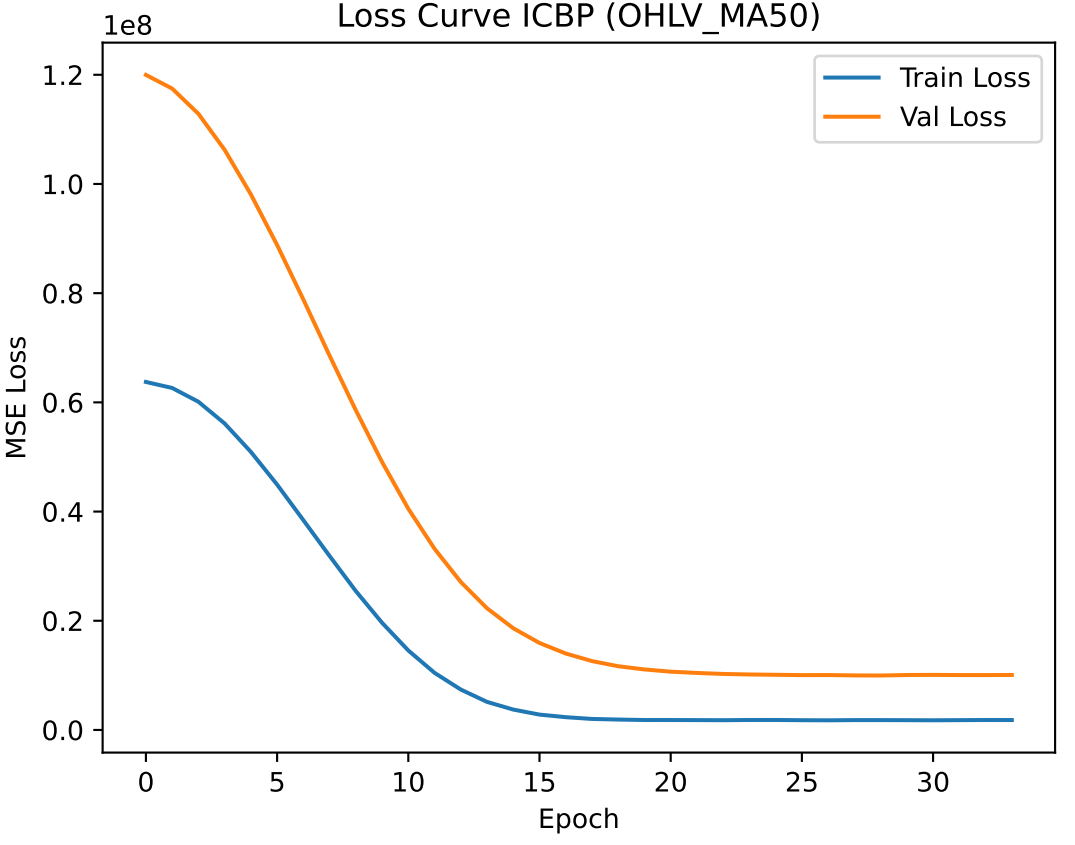
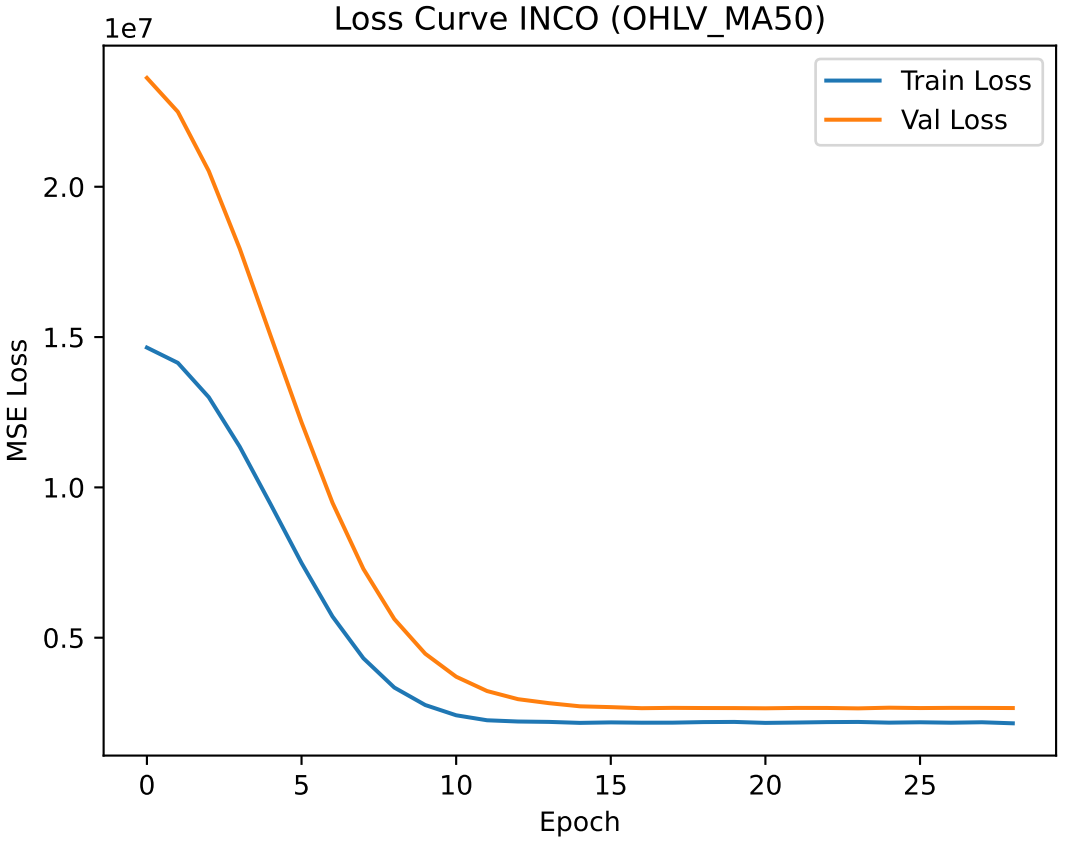
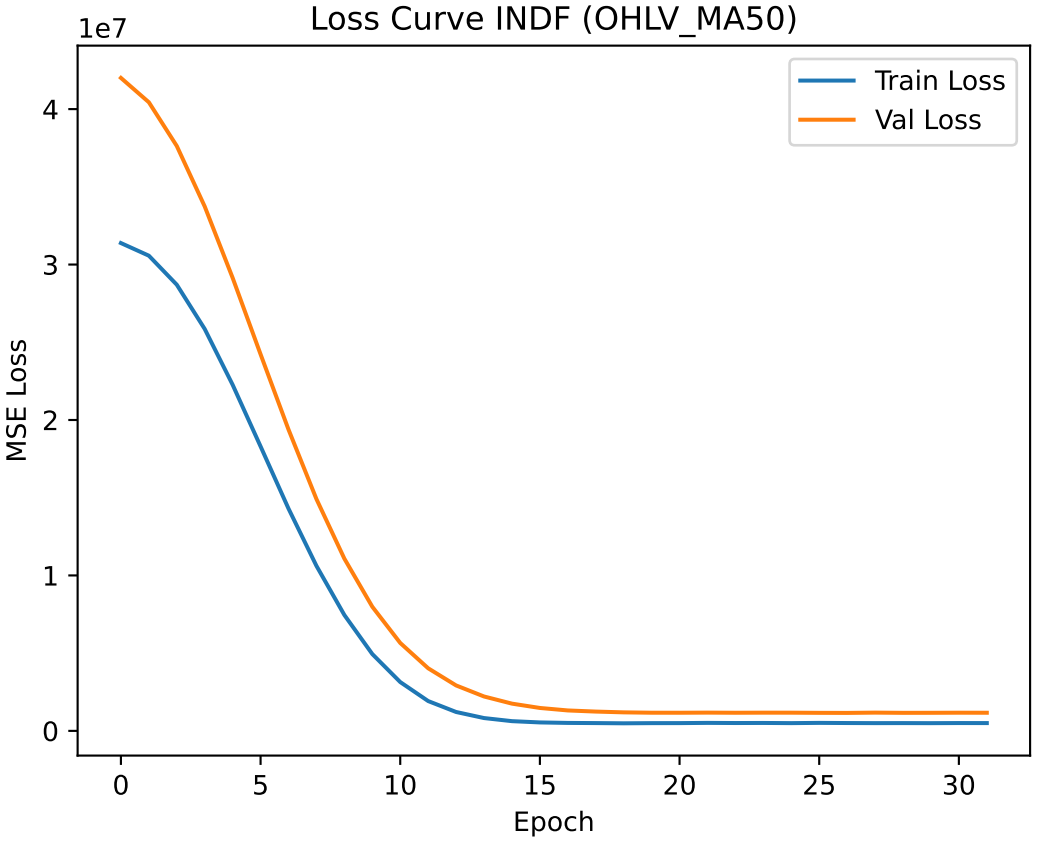
4
6
8
10
12


Loss Curve GOTO (OHLV_MA50)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
Epoch


Loss Curve ICBP (OHLV_MA50)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch


Loss Curve INCO (OHLV_MA50)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
Epoch


Loss Curve INDF (OHLV_MA50)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
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4
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25
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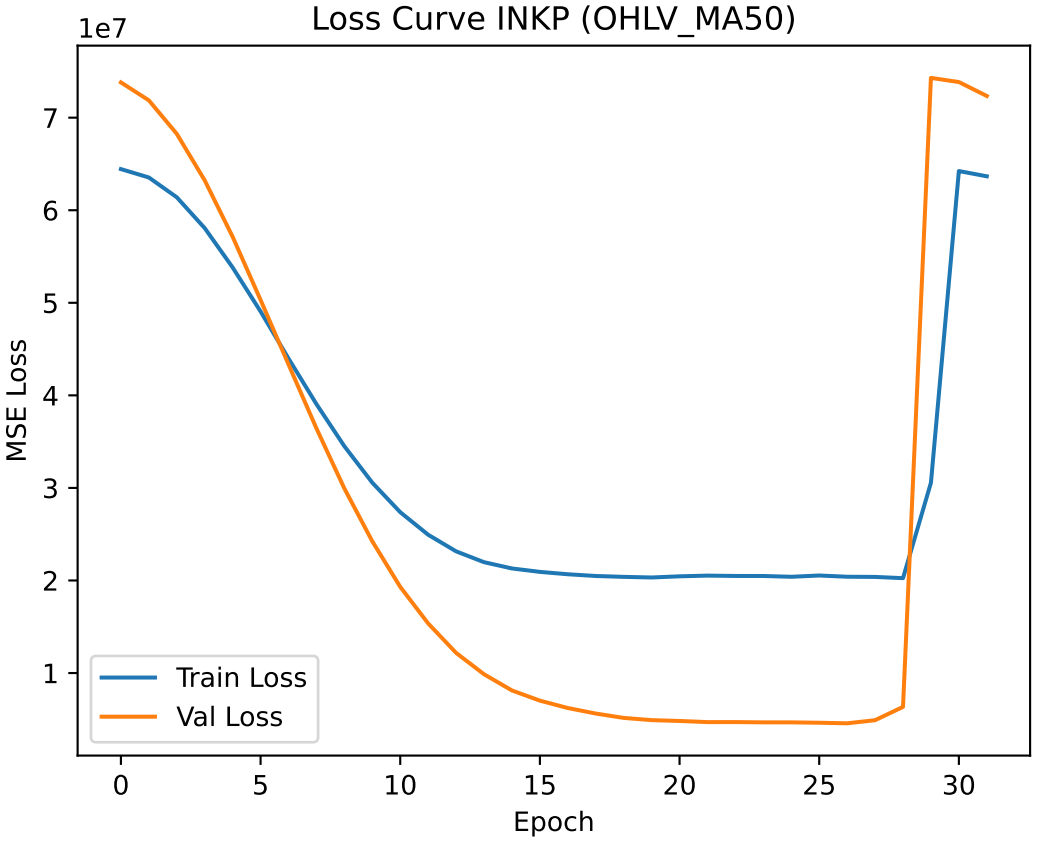
Loss Curve INKP (OHLV_MA50)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
0
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10
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20
25
30
1
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4
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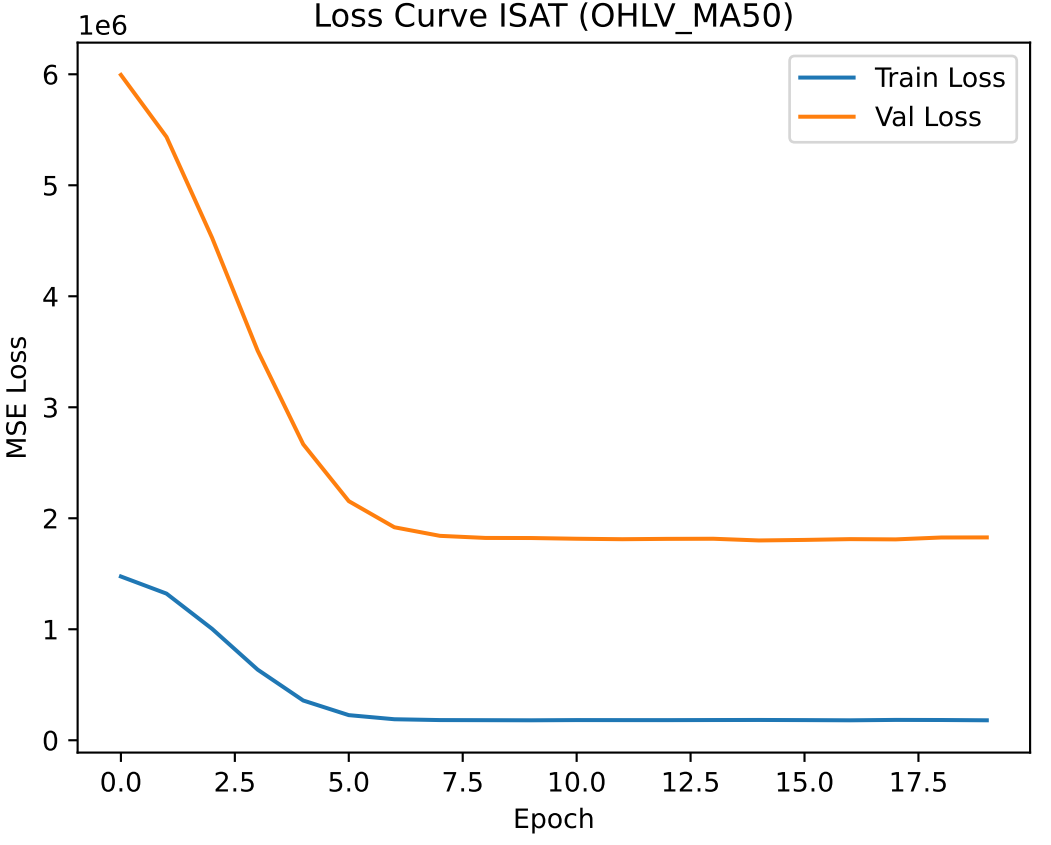
6
7


Loss Curve ISAT (OHLV_MA50)
1e6
6
5
4
3
2
1
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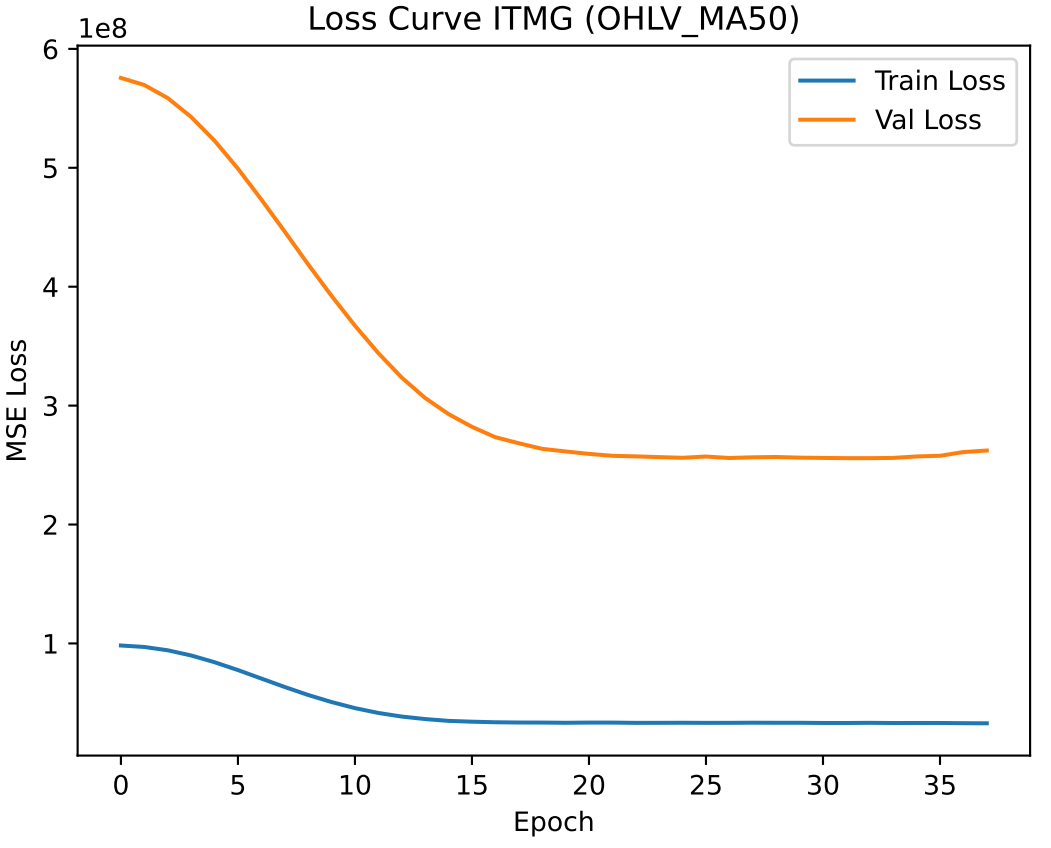
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch


Loss Curve ITMG (OHLV_MA50)
1e8
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2
1
MSE Loss
Train Loss
Val Loss
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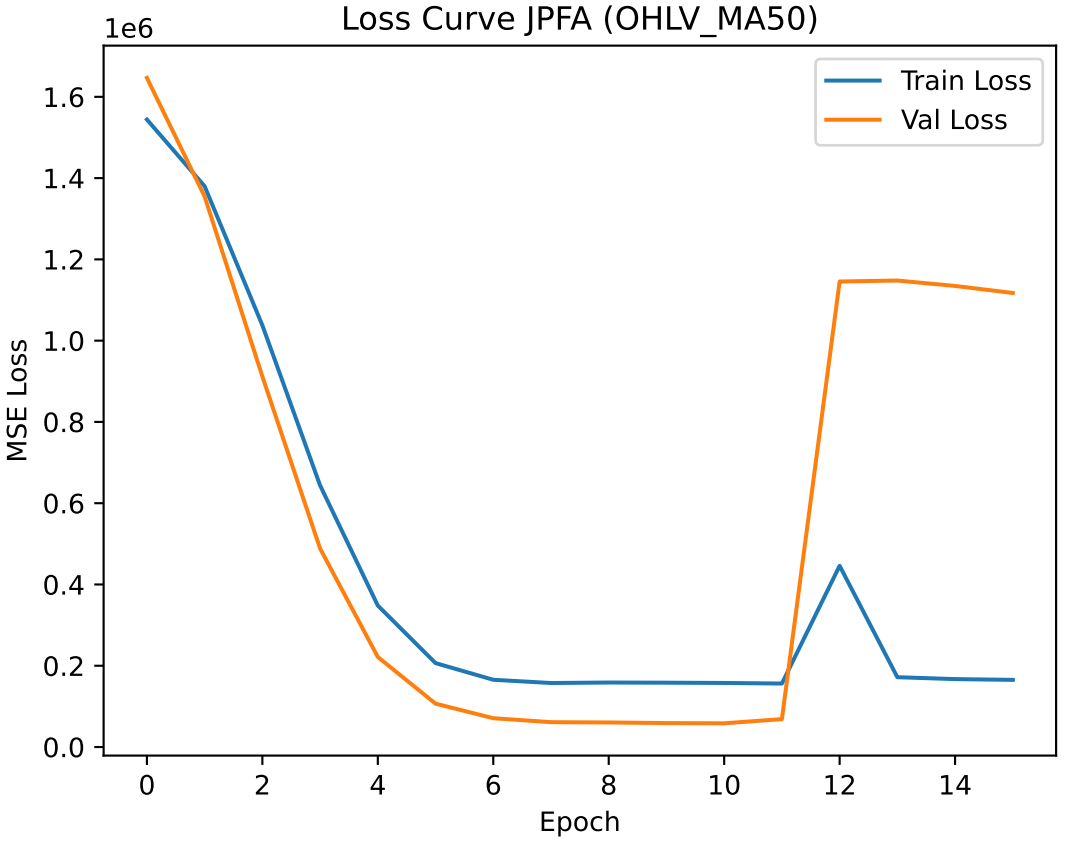
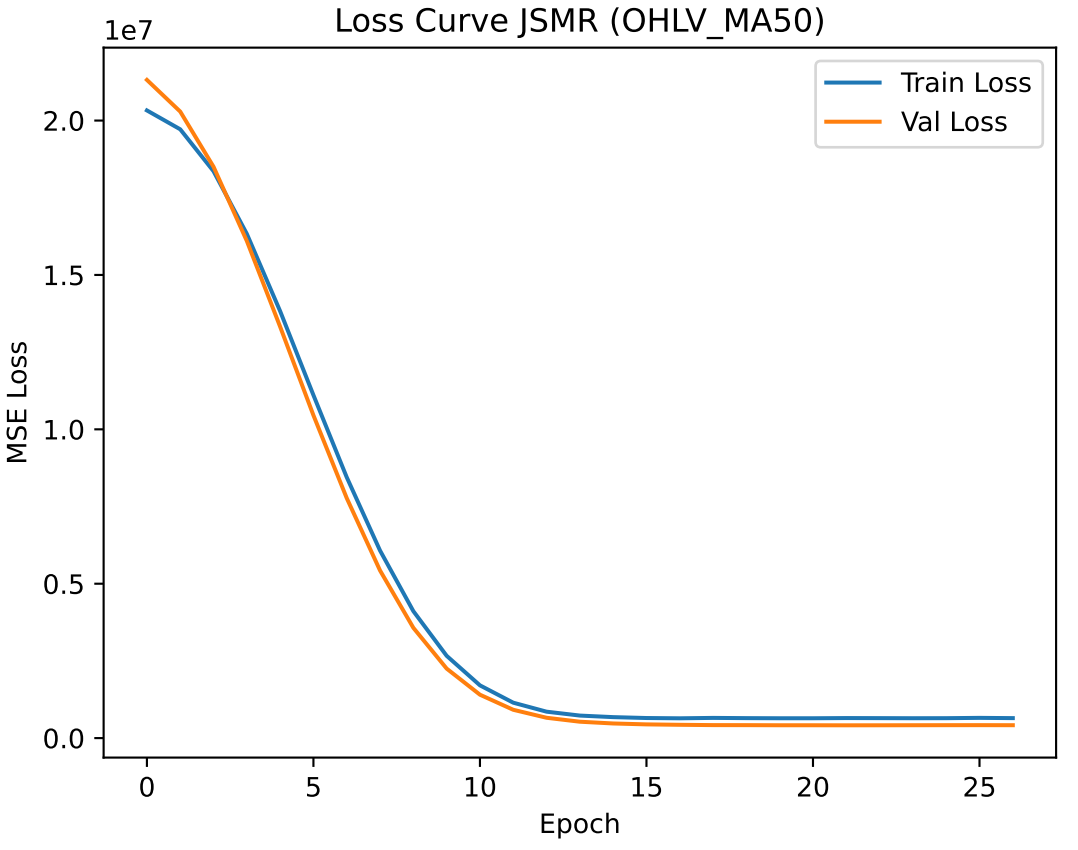
5
10
15
20
25
30
35
Epoch


Loss Curve JPFA (OHLV_MA50)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14


Loss Curve JSMR (OHLV_MA50)
1e7
Train Loss
Val Loss
MSE Loss
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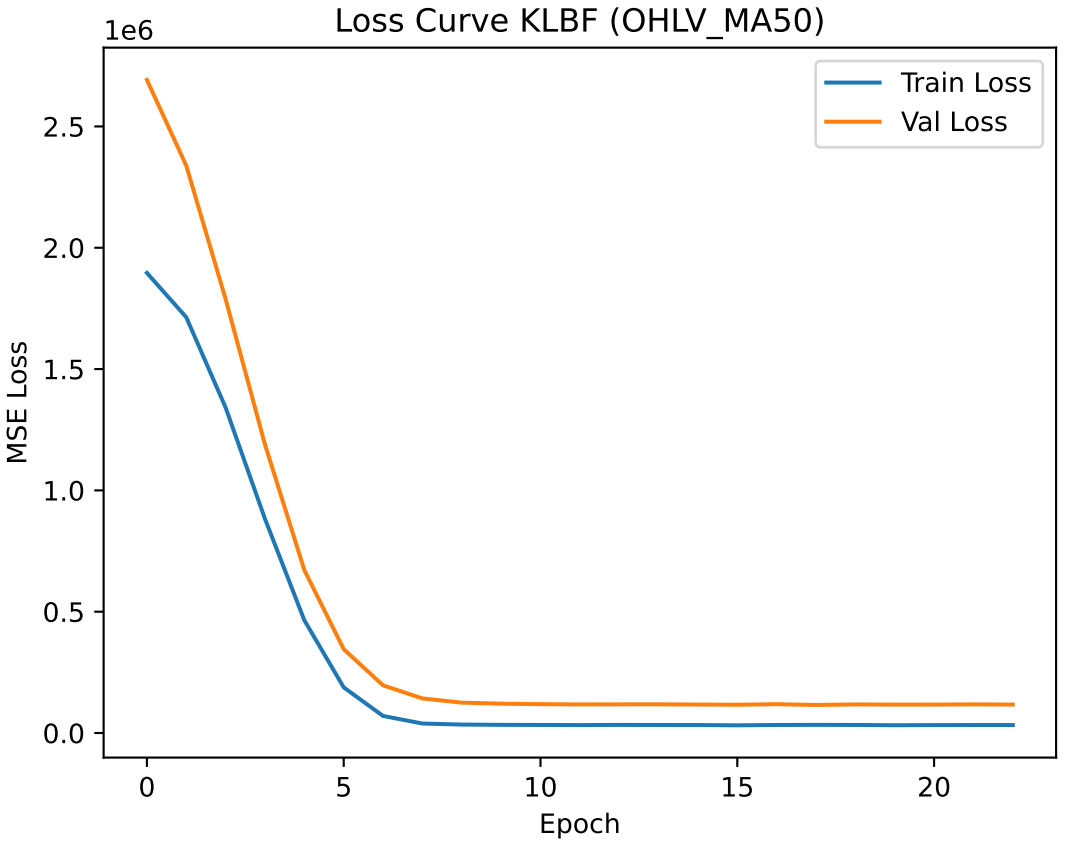
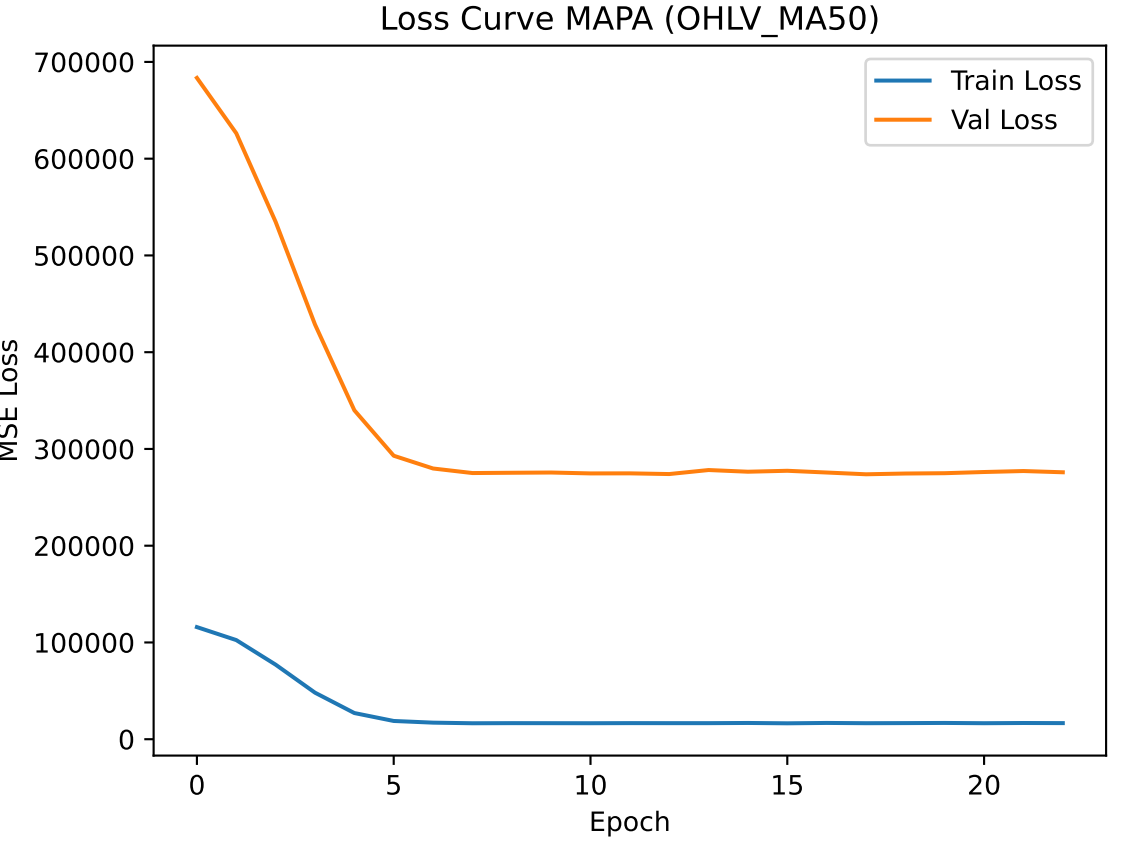
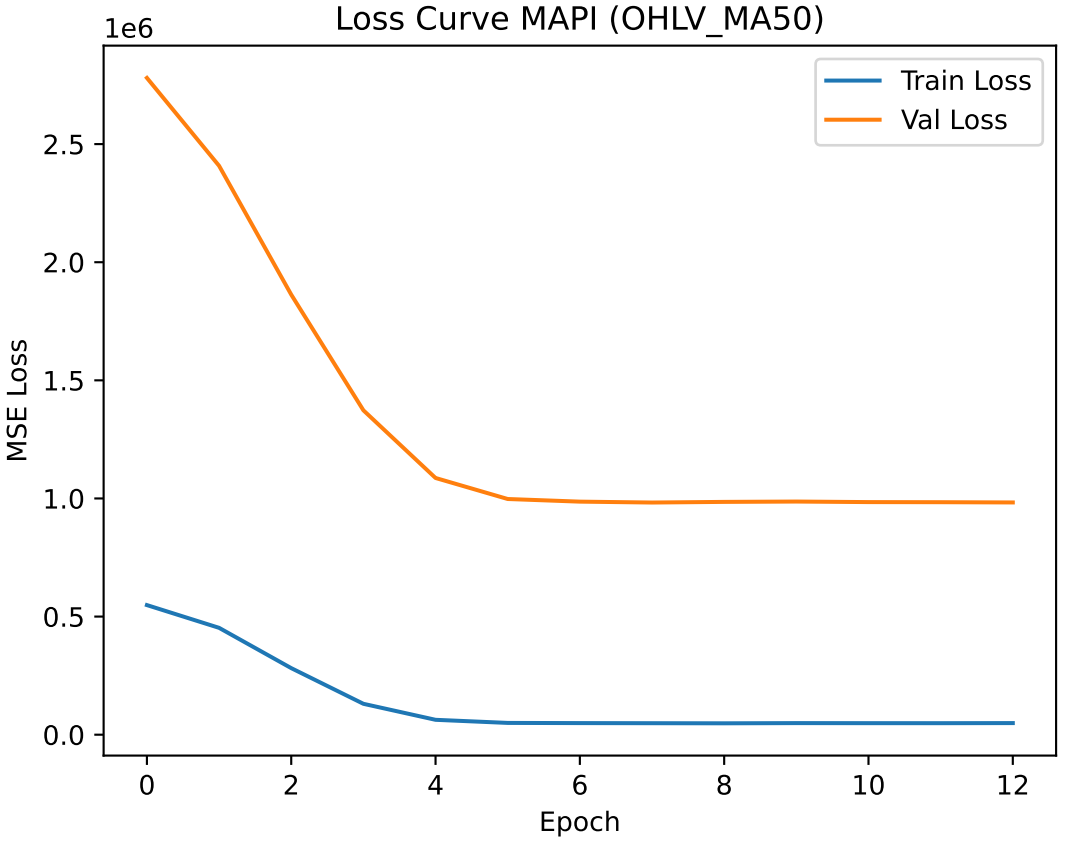
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch


Loss Curve KLBF (OHLV_MA50)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
Epoch


Loss Curve MAPA (OHLV_MA50)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
5
10
15
20


Loss Curve MAPI (OHLV_MA50)
1e6
Train Loss
Val Loss
MSE Loss
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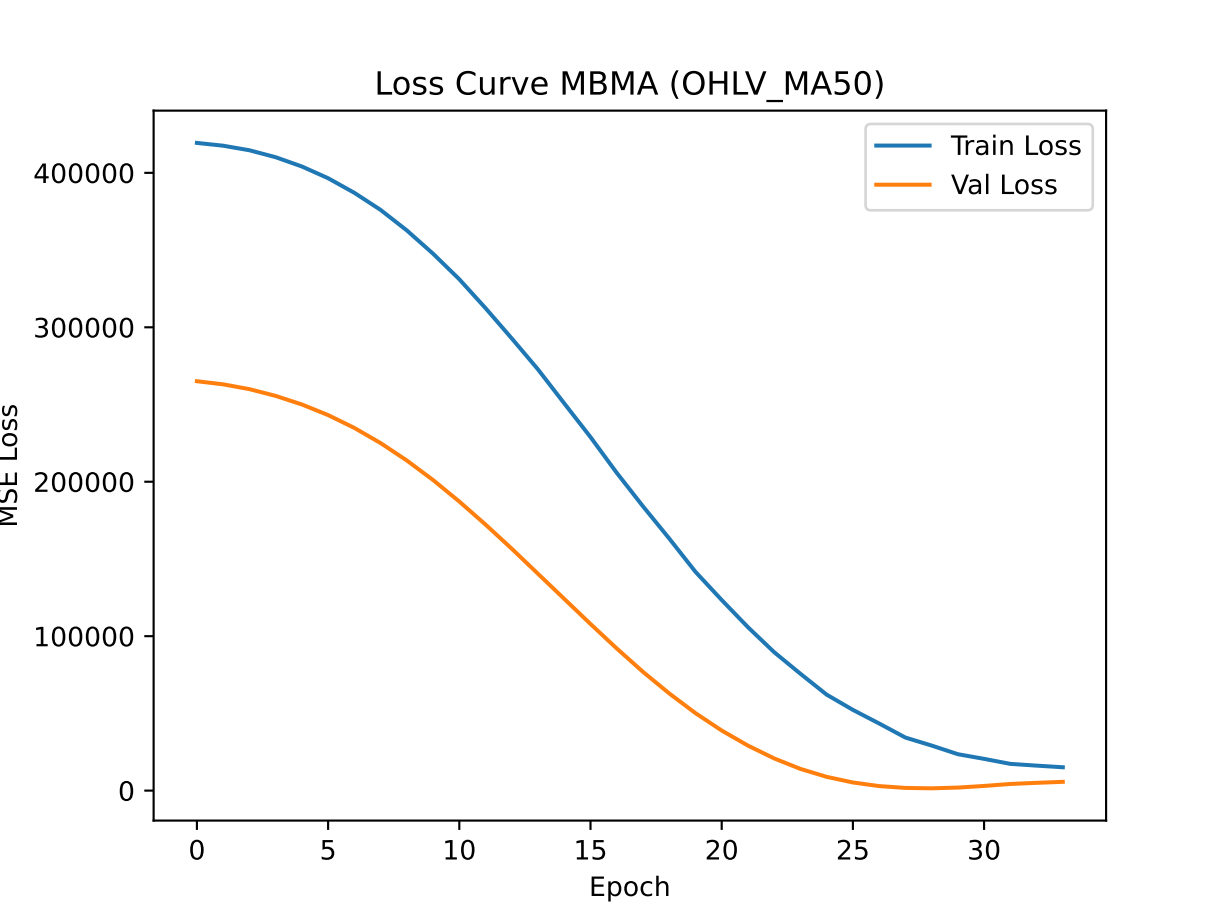
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch


Loss Curve MBMA (OHLV_MA50)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
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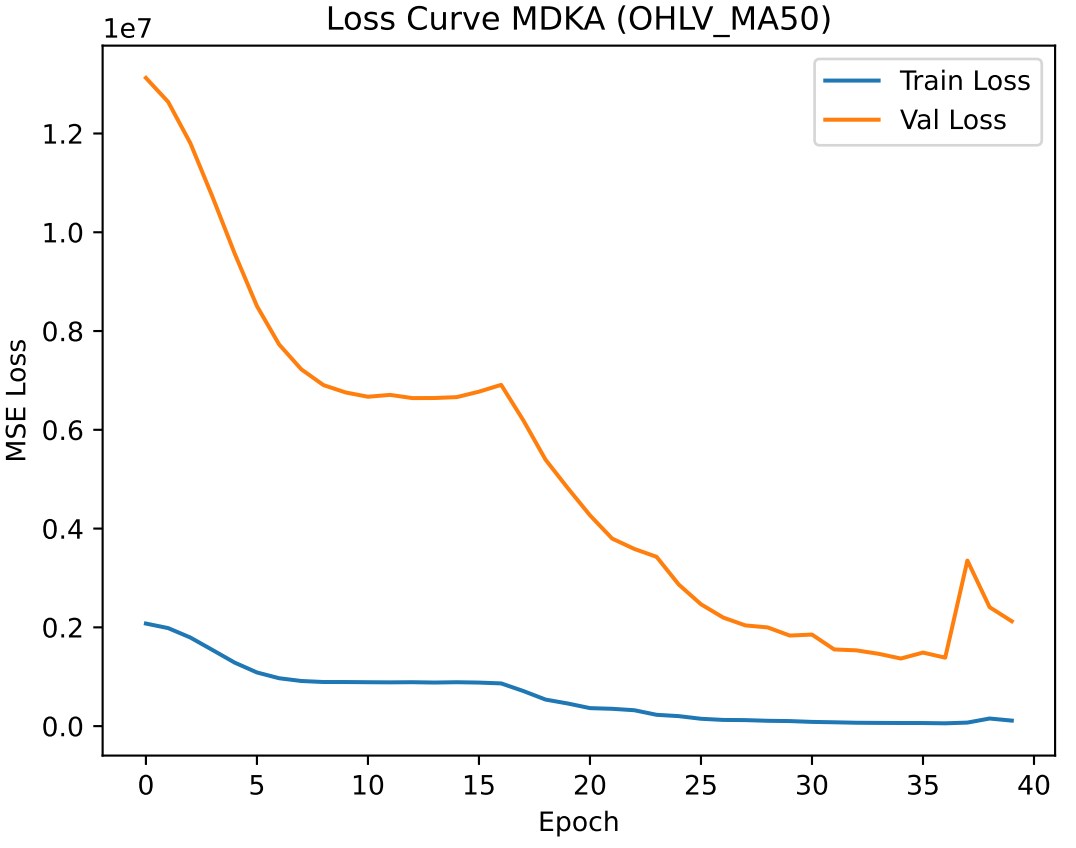
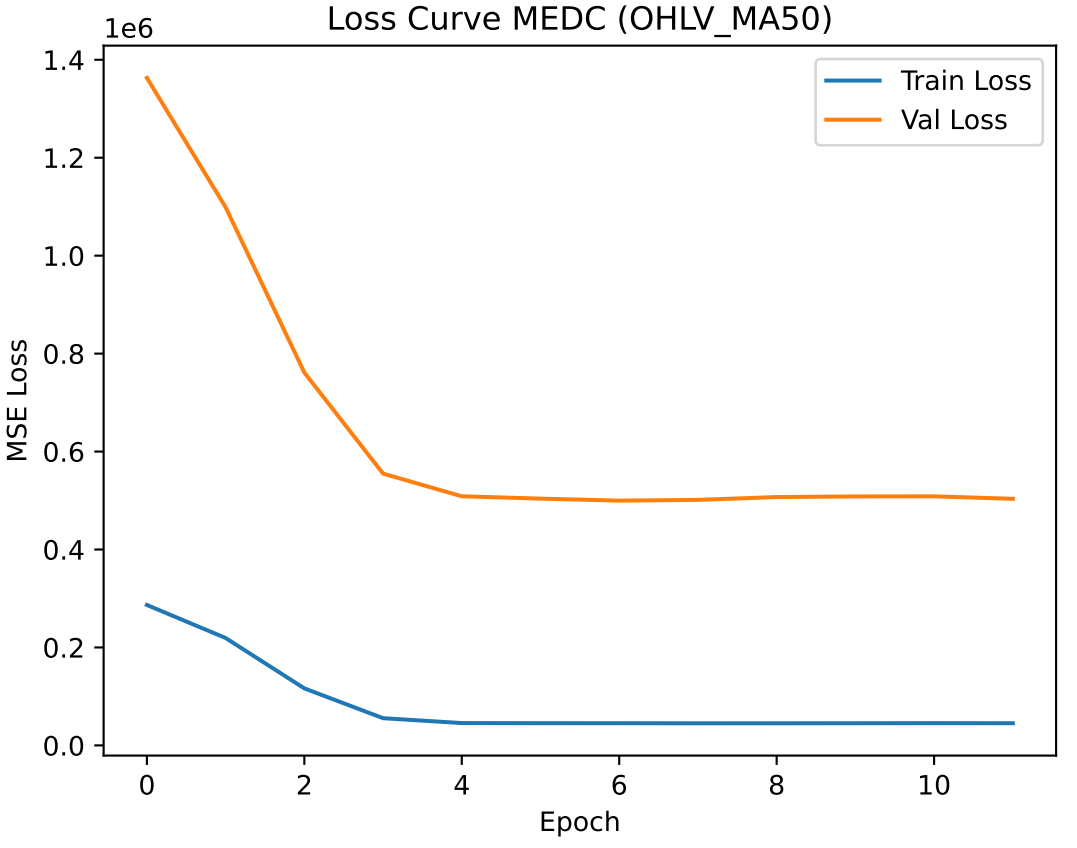
20
25
30
Epoch


Loss Curve MDKA (OHLV_MA50)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15
20
25
30
35
40


Loss Curve MEDC (OHLV_MA50)
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1.4
1.2
1.0
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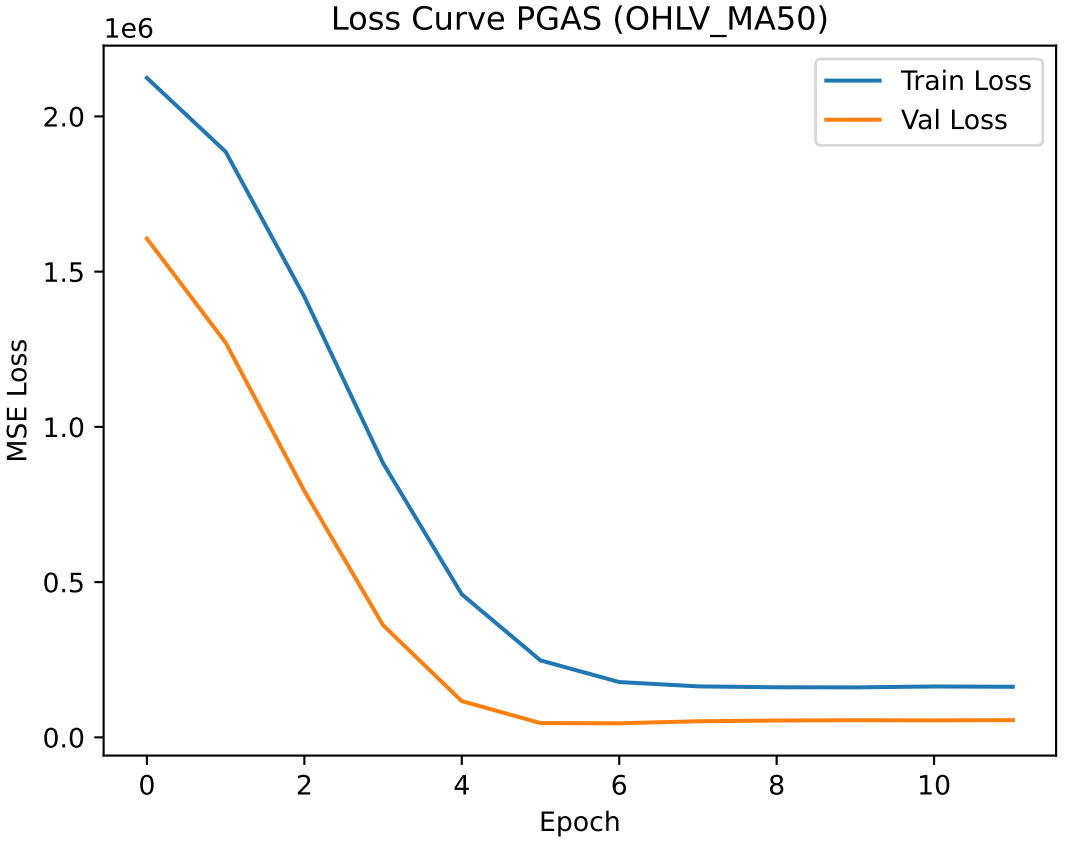
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
Epoch


Loss Curve PGAS (OHLV_MA50)
1e6
Train Loss
Val Loss
MSE Loss
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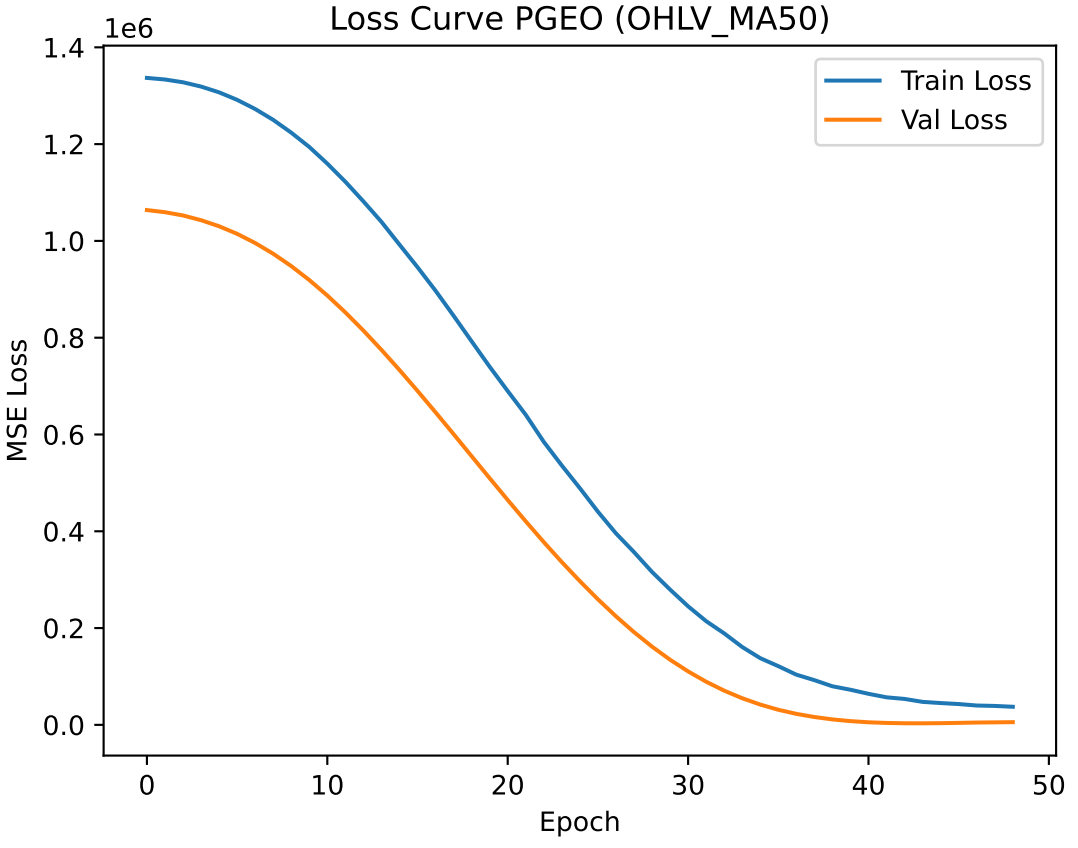
1.0
0.5
0.0
0
2
4
6
8
10
Epoch


Loss Curve PGEO (OHLV_MA50)
1e6
1.4
1.2
1.0
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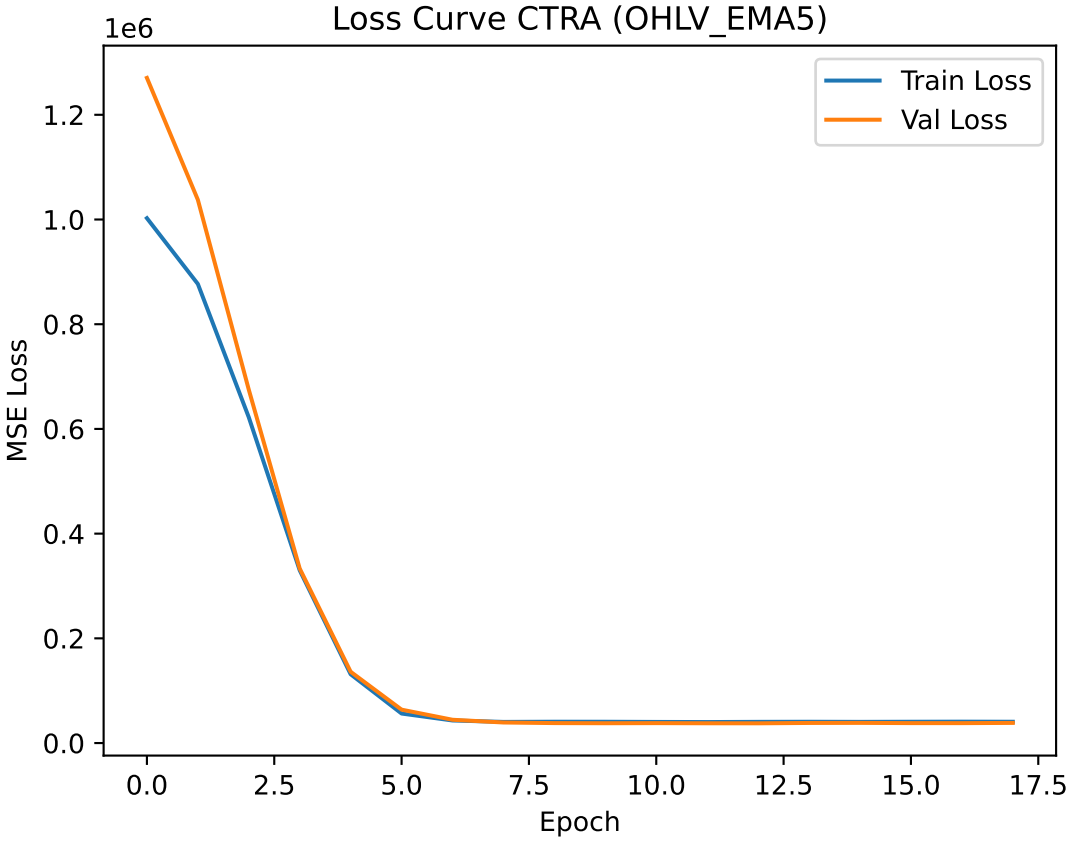
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch


Loss Curve CTRA (OHLV_EMA5)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
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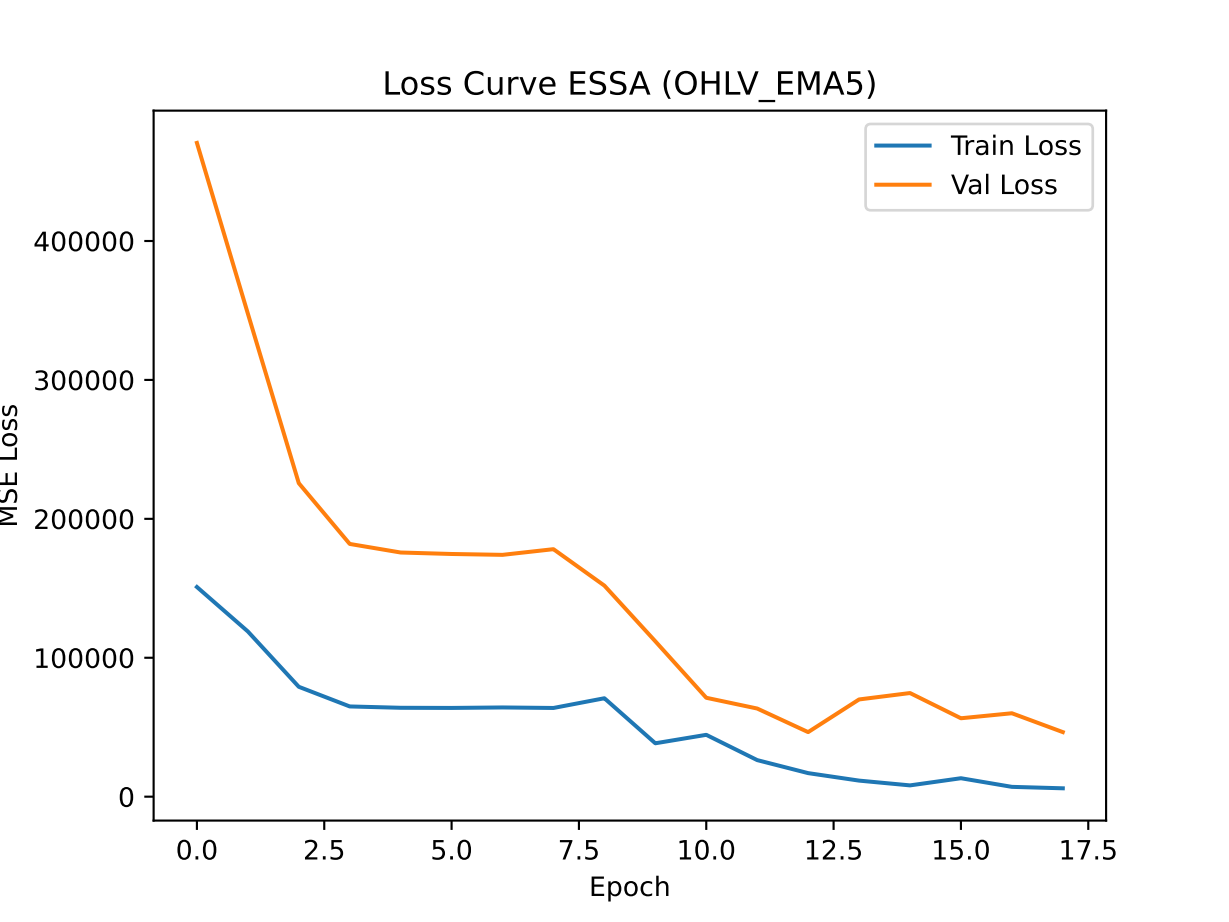
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5


Loss Curve ESSA (OHLV_EMA5)
Train Loss
Val Loss
400000
300000
200000
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MSE Loss
0.0
2.5
5.0
7.5
10.0
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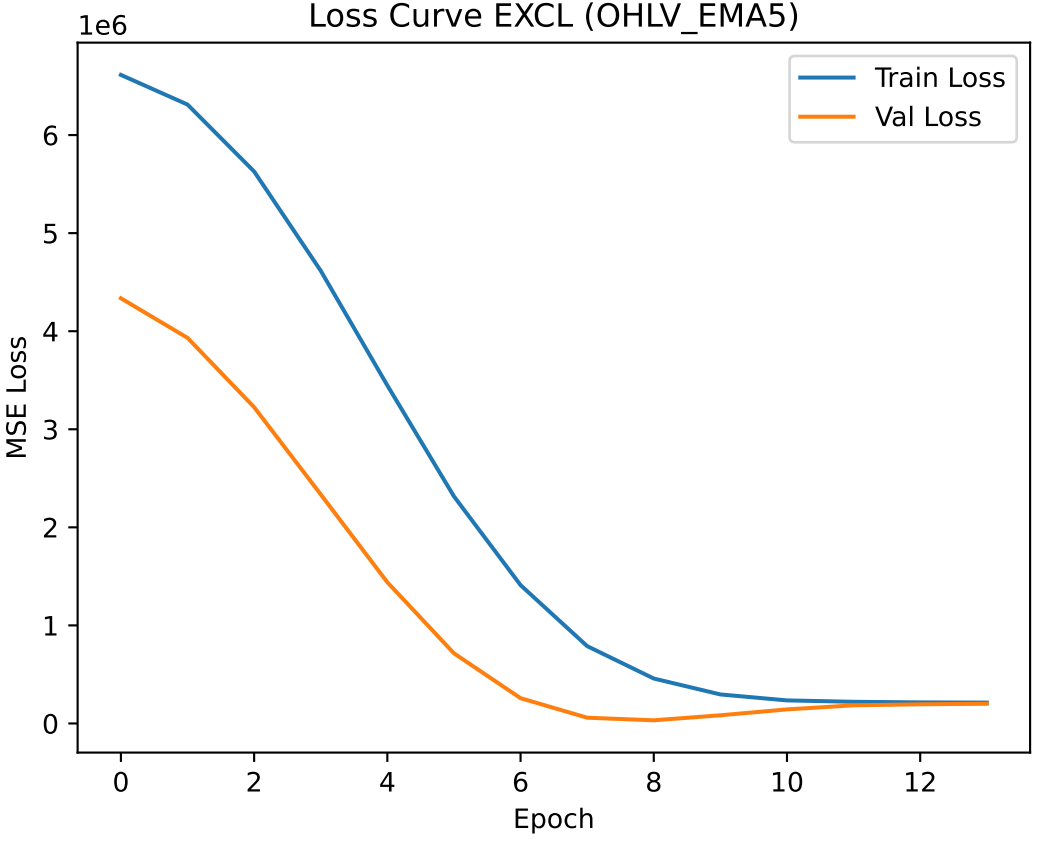
17.5
Epoch


Loss Curve EXCL (OHLV_EMA5)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
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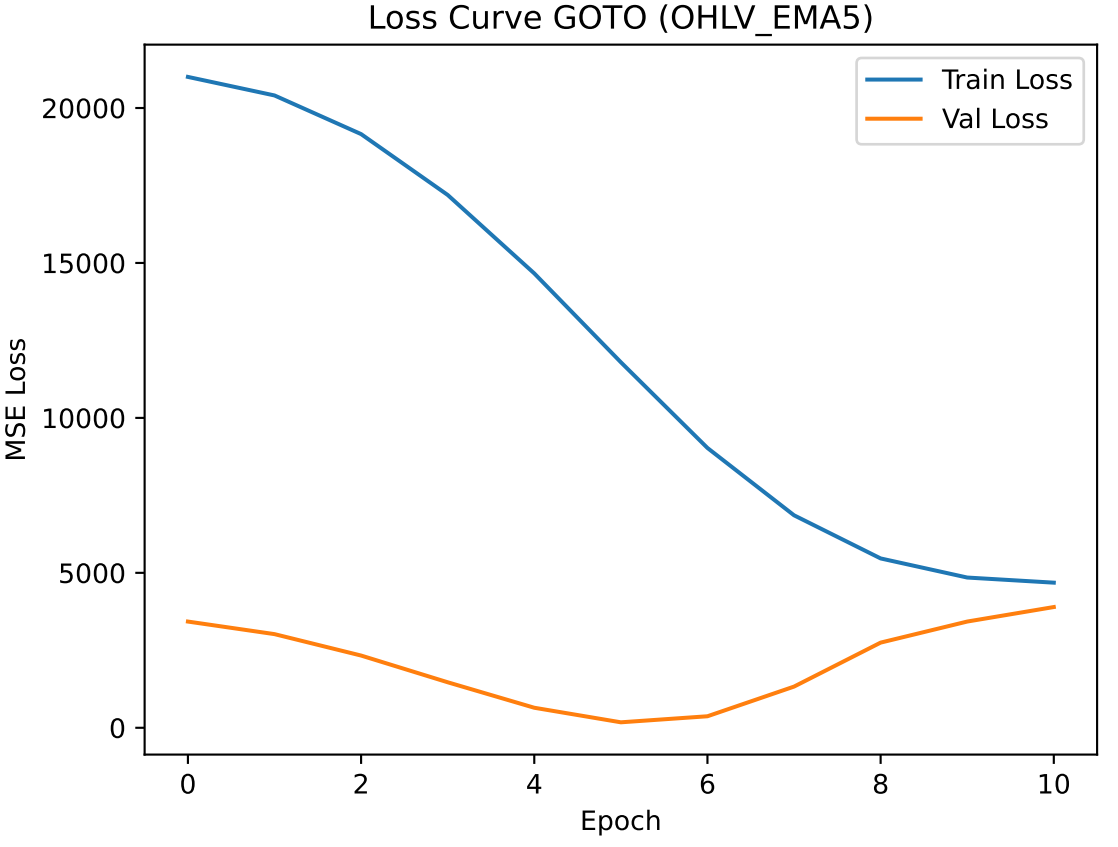
2
4
6
8
10
12


Loss Curve GOTO (OHLV_EMA5)
Train Loss
Val Loss
MSE Loss
Epoch
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15000
10000
5000
0
0
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4
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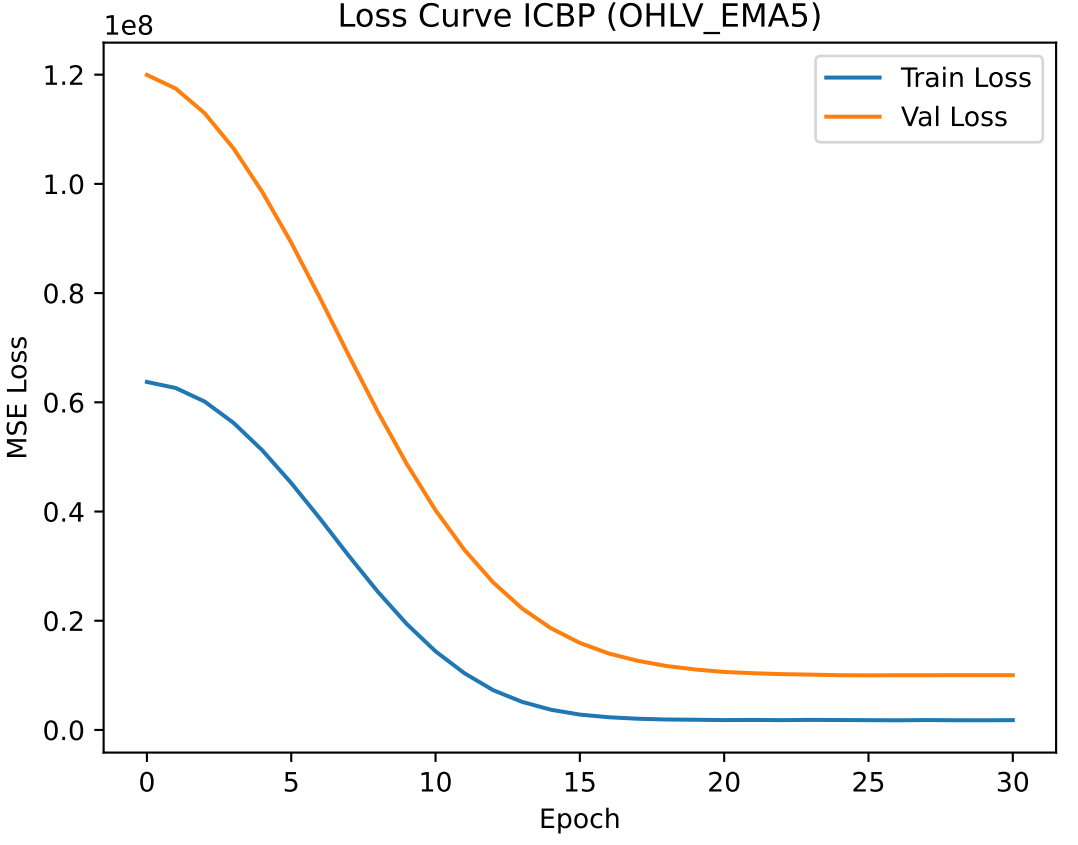
8
10


Loss Curve ICBP (OHLV_EMA5)
1e8
1.2
1.0
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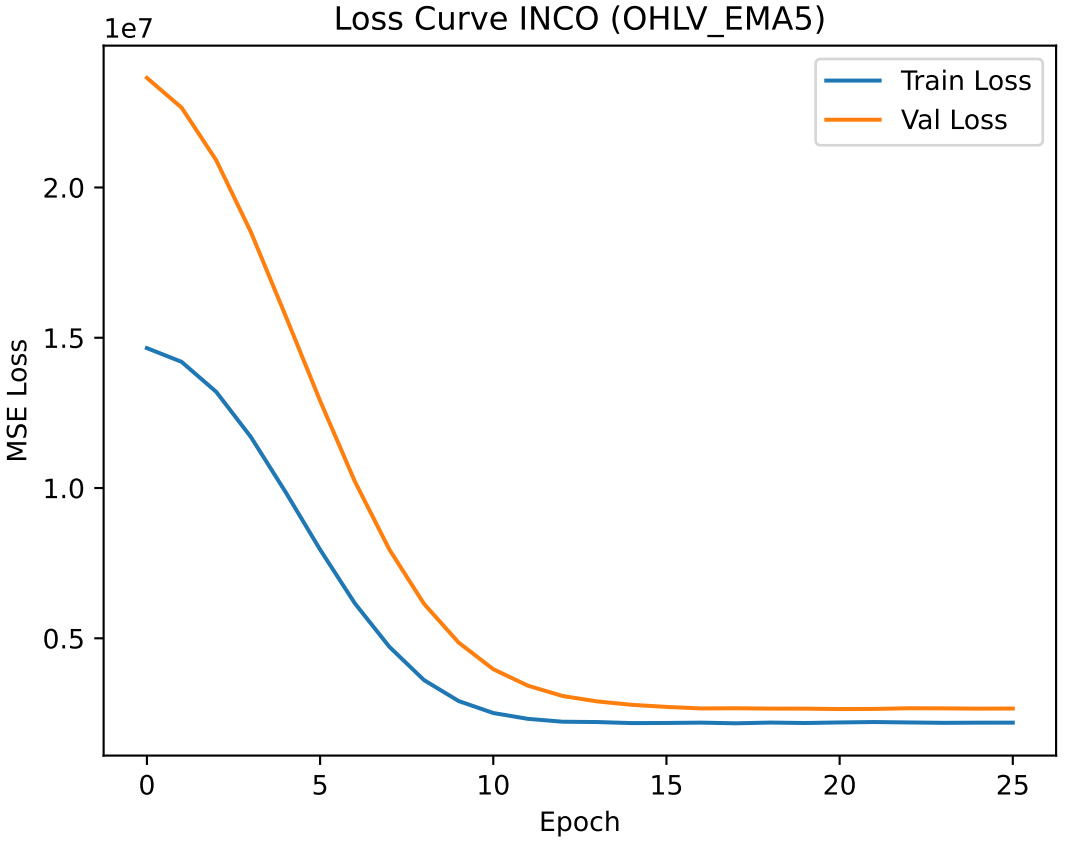
0.2
0.0
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss


Loss Curve INCO (OHLV_EMA5)
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Train Loss
Val Loss
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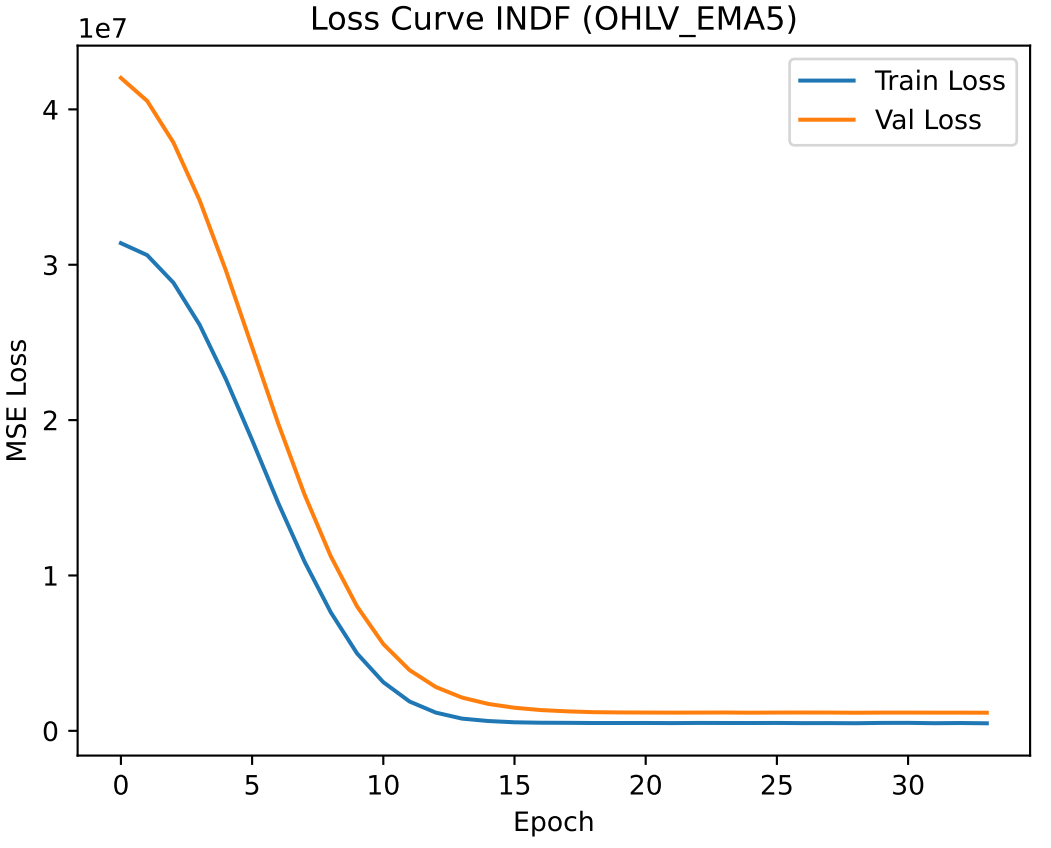
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
Epoch


Loss Curve INDF (OHLV_EMA5)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
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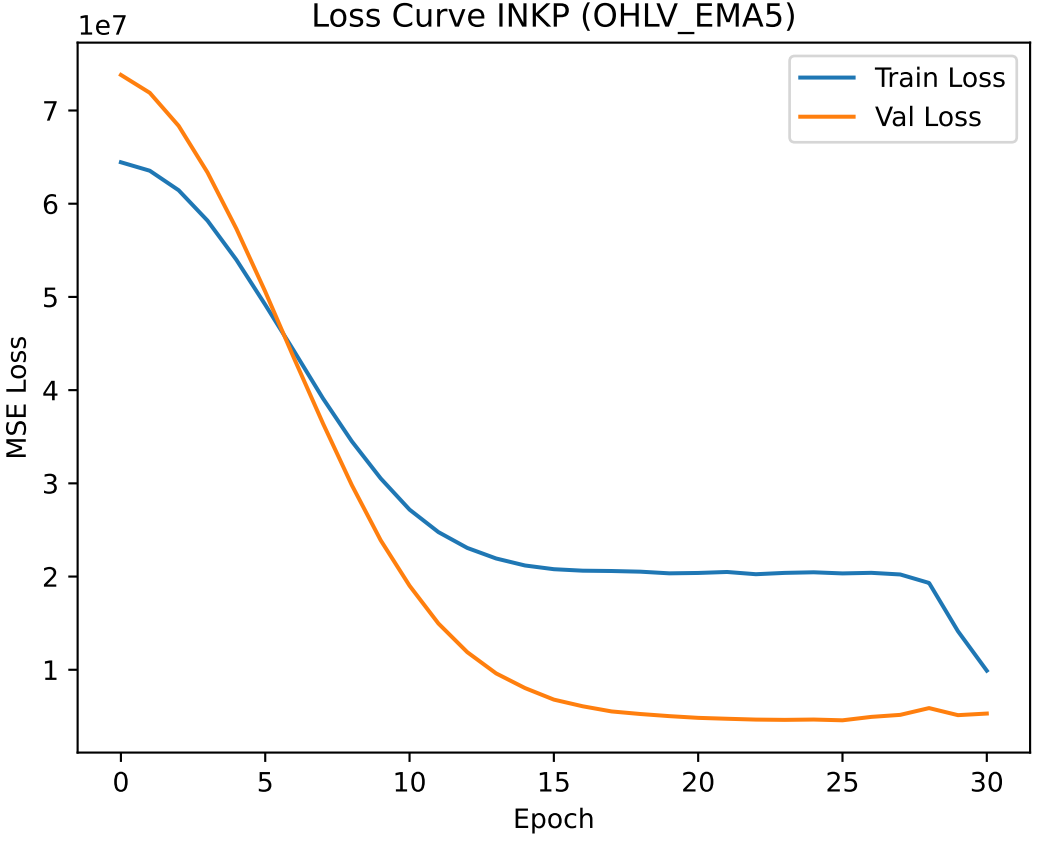
15
20
25
30


Loss Curve INKP (OHLV_EMA5)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
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10
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30
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6
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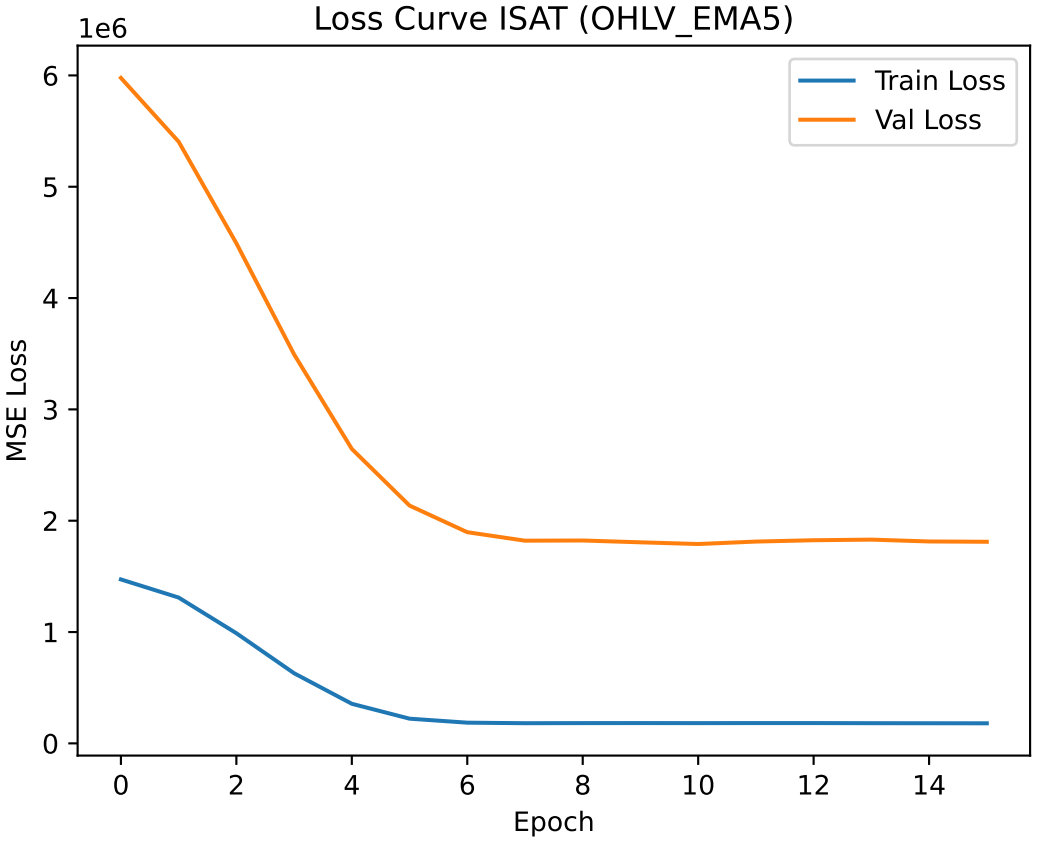
Loss Curve ISAT (OHLV_EMA5)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
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0
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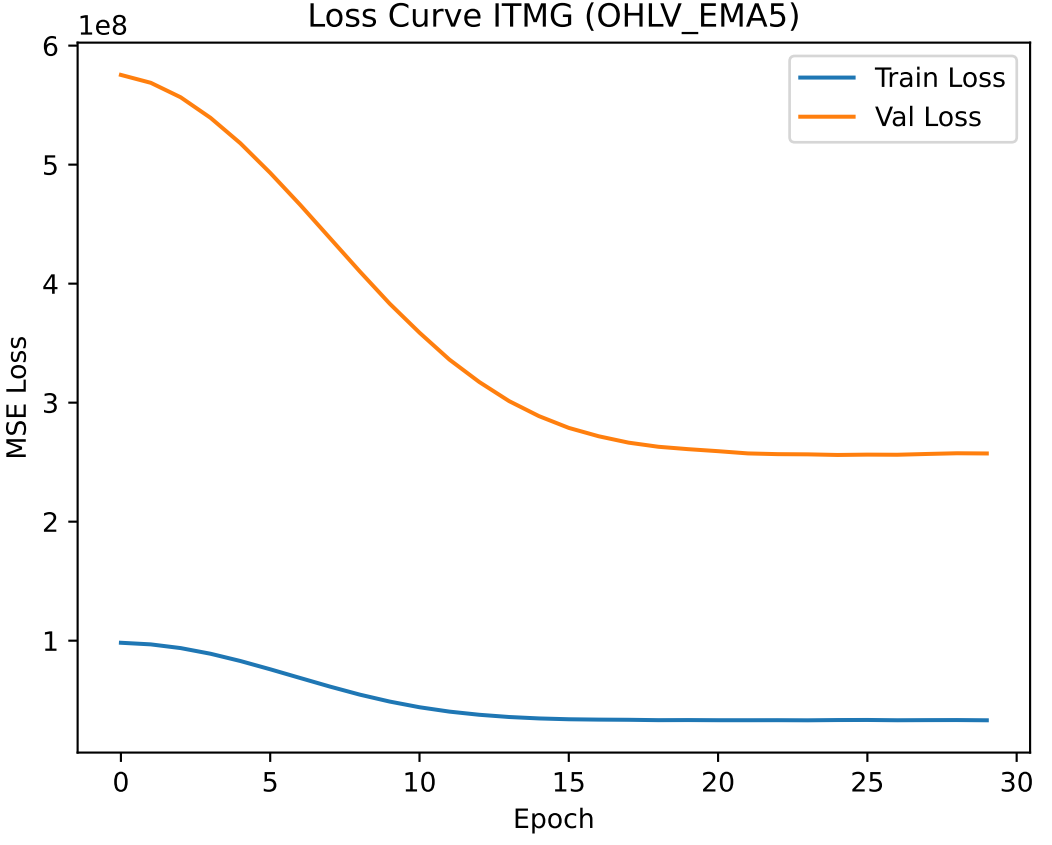
8
10
12
14


Loss Curve ITMG (OHLV_EMA5)
1e8
6
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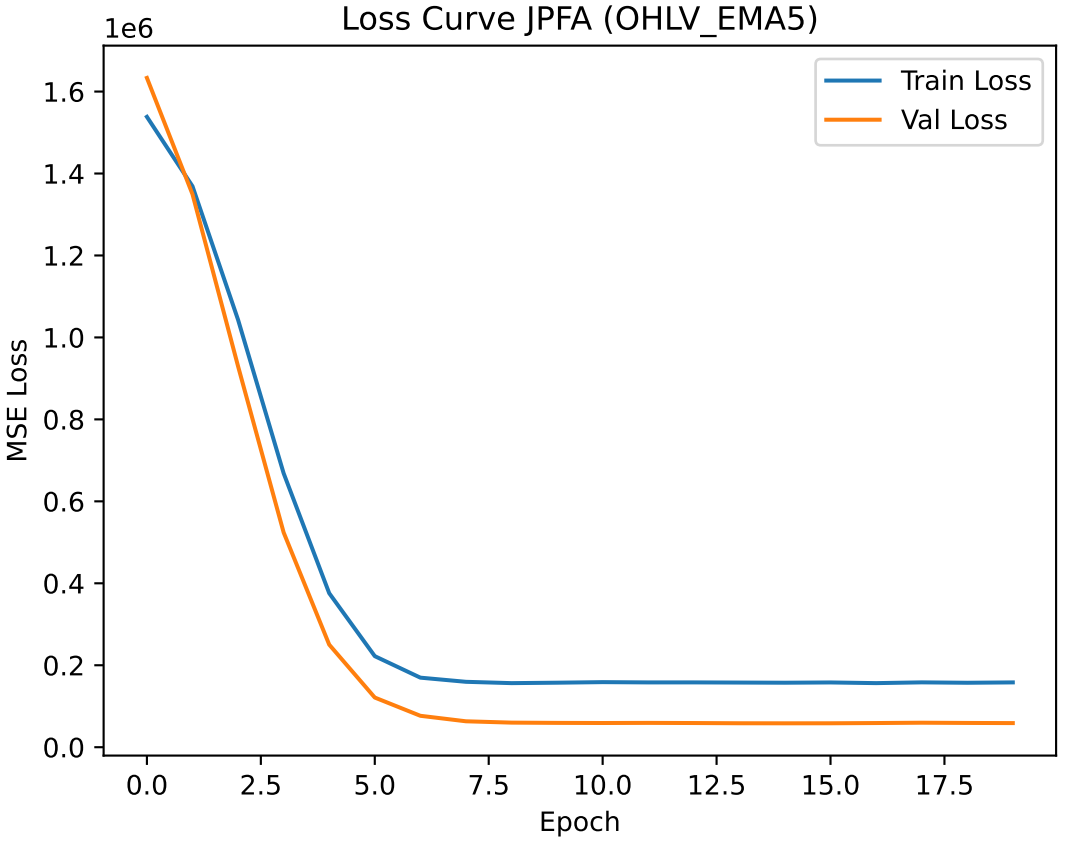
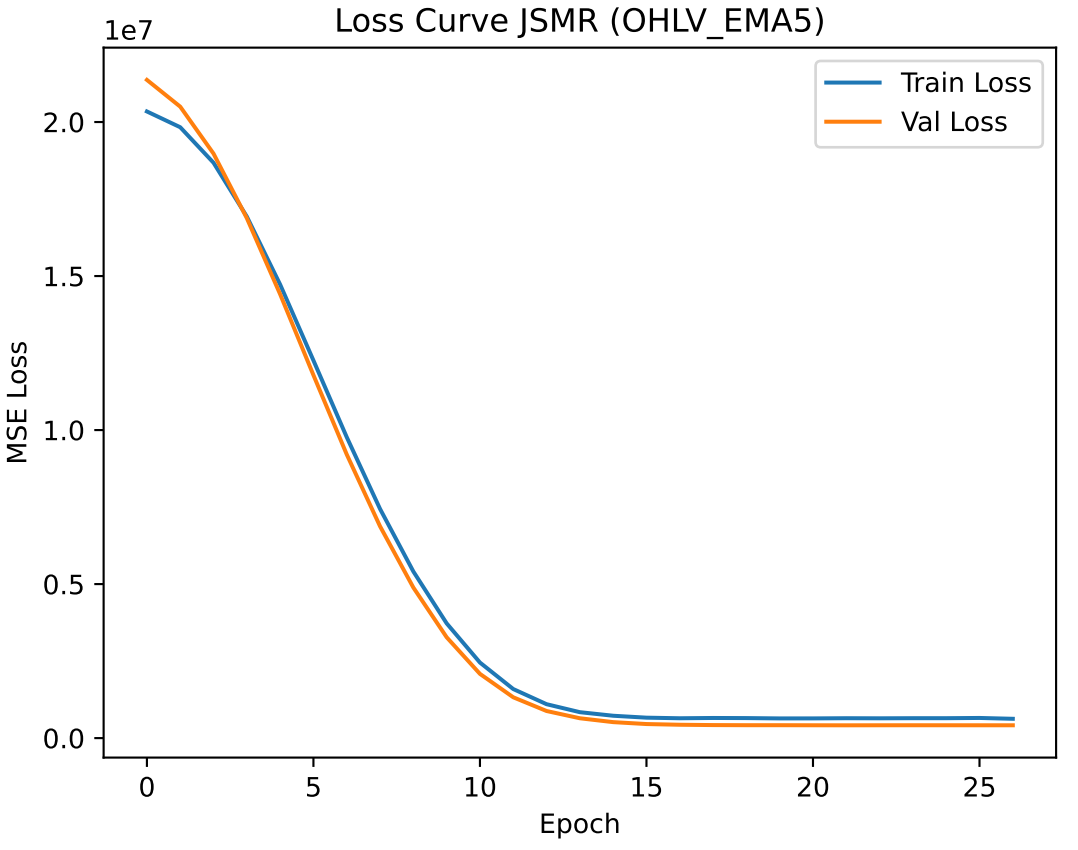
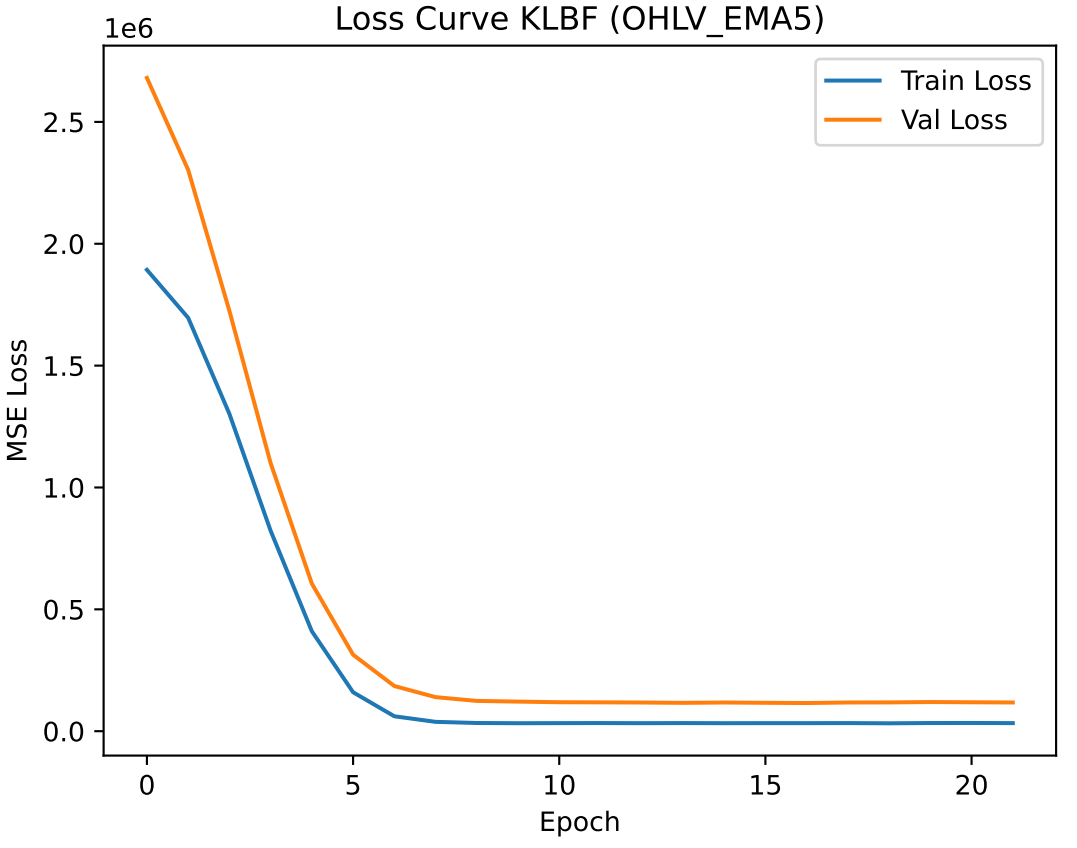
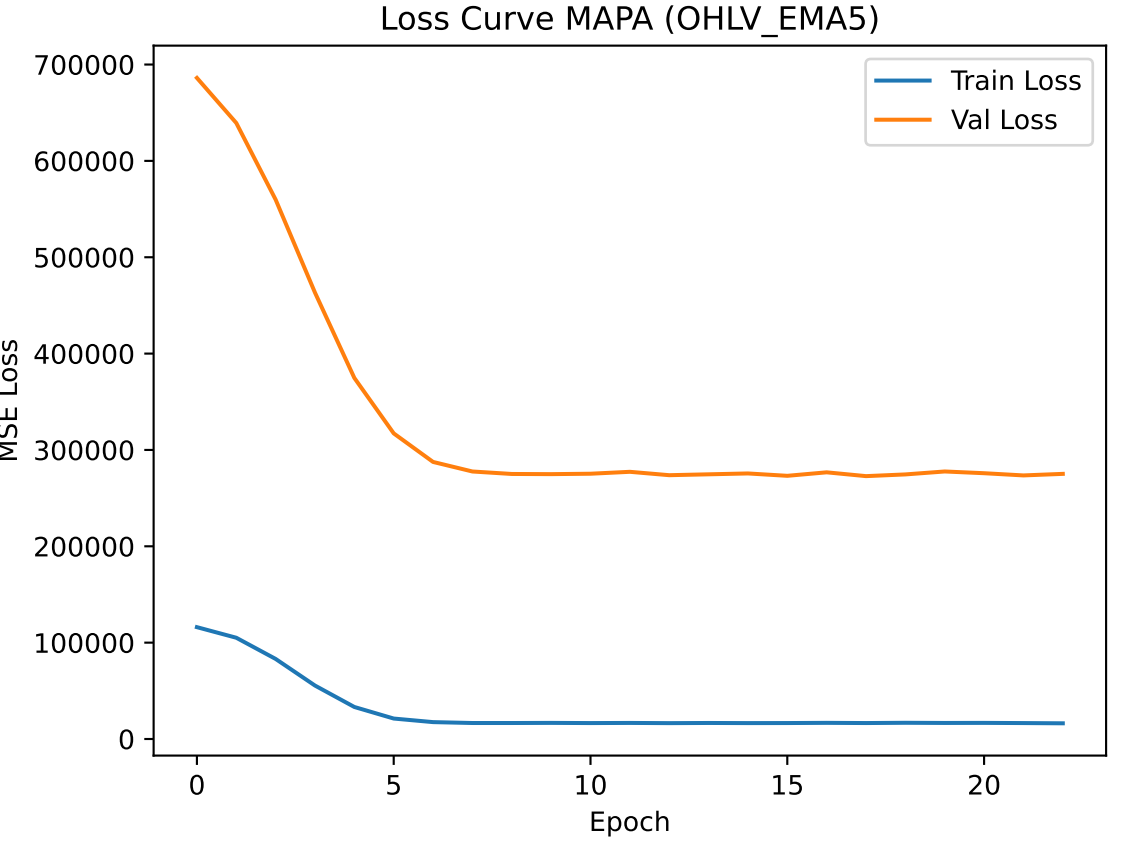
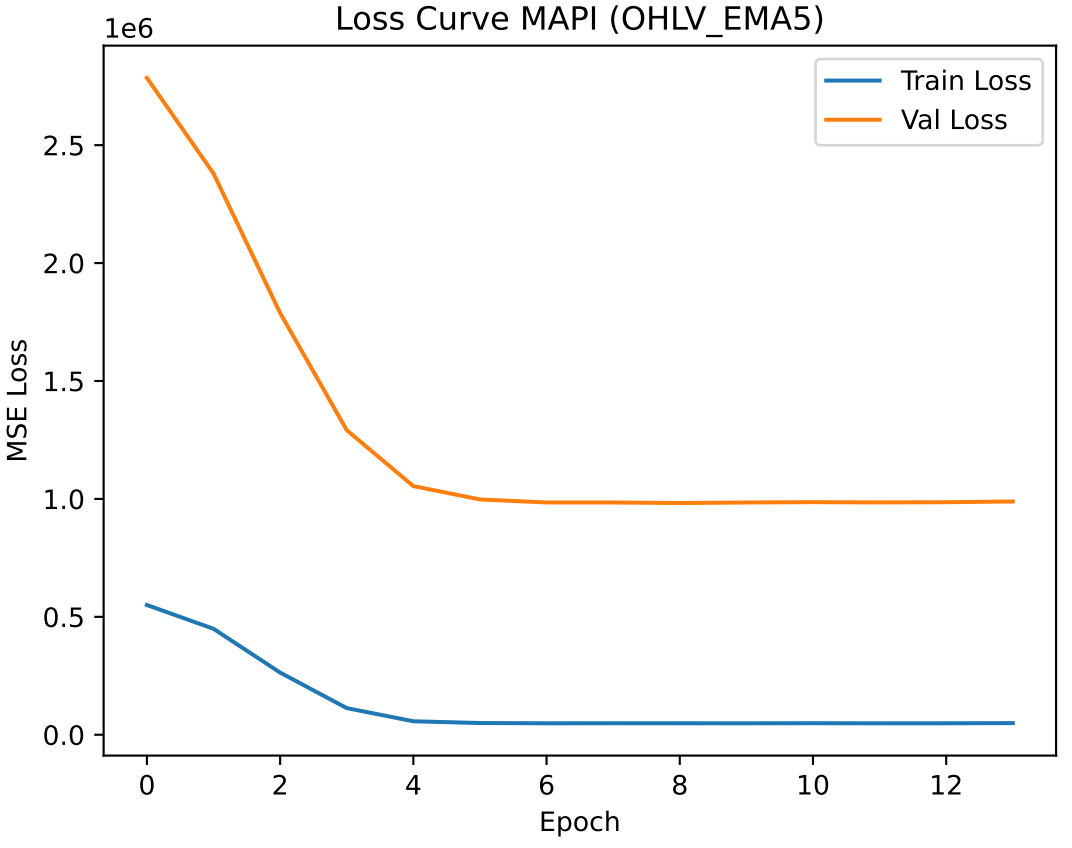
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch


Loss Curve JPFA (OHLV_EMA5)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5


Loss Curve JSMR (OHLV_EMA5)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch


Loss Curve KLBF (OHLV_EMA5)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
Epoch


Loss Curve MAPA (OHLV_EMA5)
Train Loss
Val Loss
MSE Loss
700000
600000
500000
400000
300000
200000
100000
0
0
5
10
15
20
Epoch


Loss Curve MAPI (OHLV_EMA5)
1e6
Train Loss
Val Loss
MSE Loss
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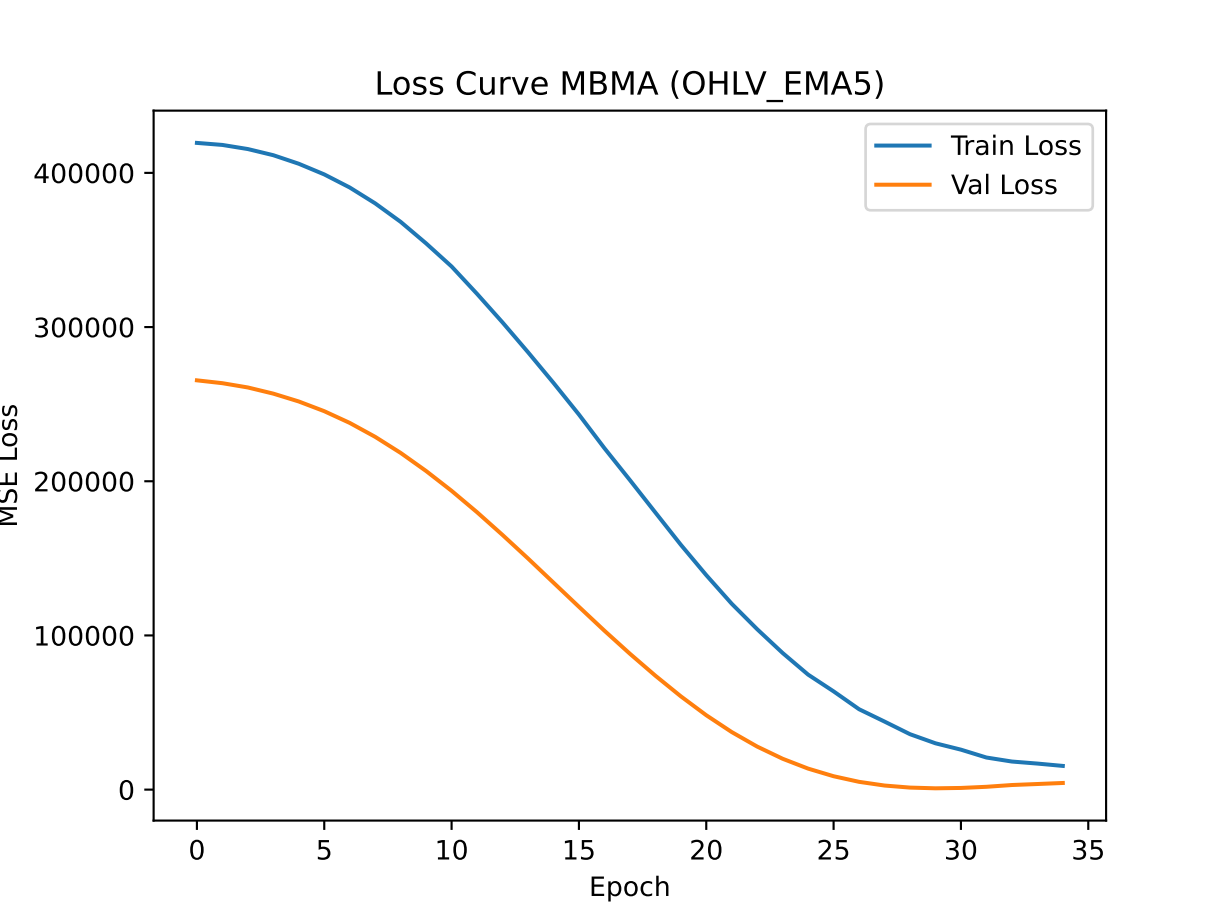
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch


Loss Curve MBMA (OHLV_EMA5)
Train Loss
Val Loss
MSE Loss
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300000
200000
100000
0
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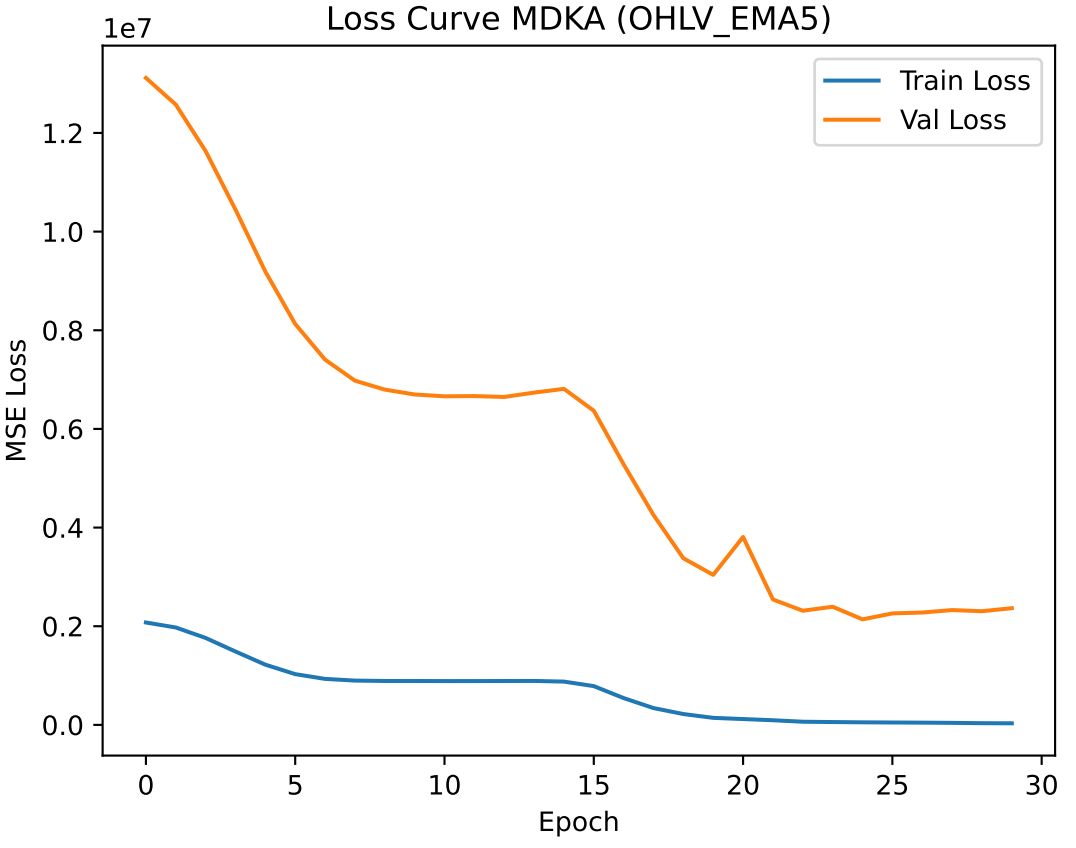
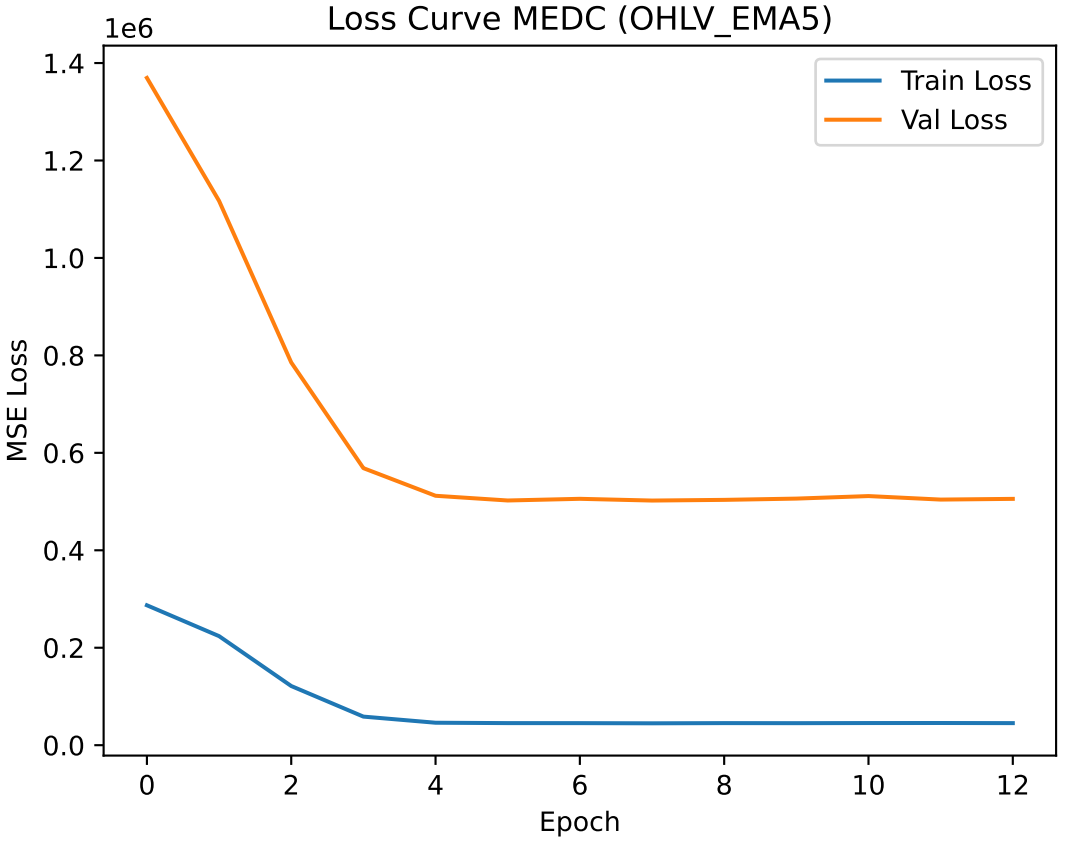
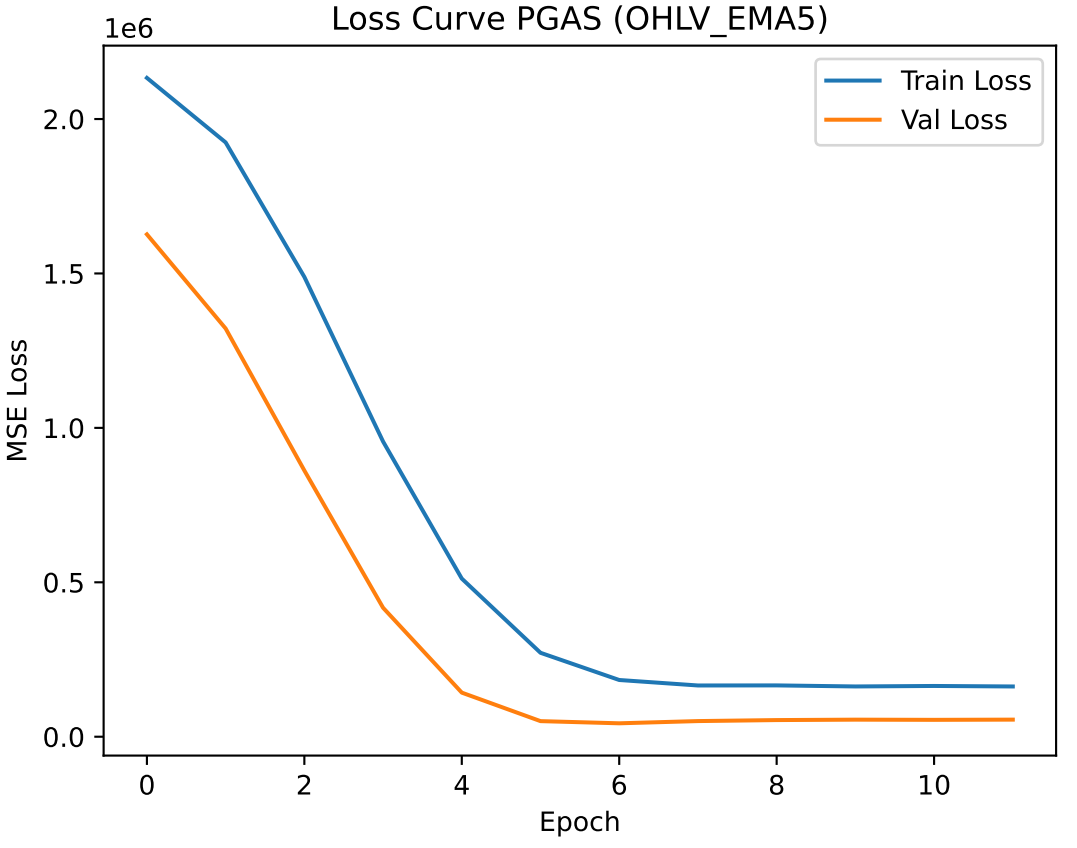
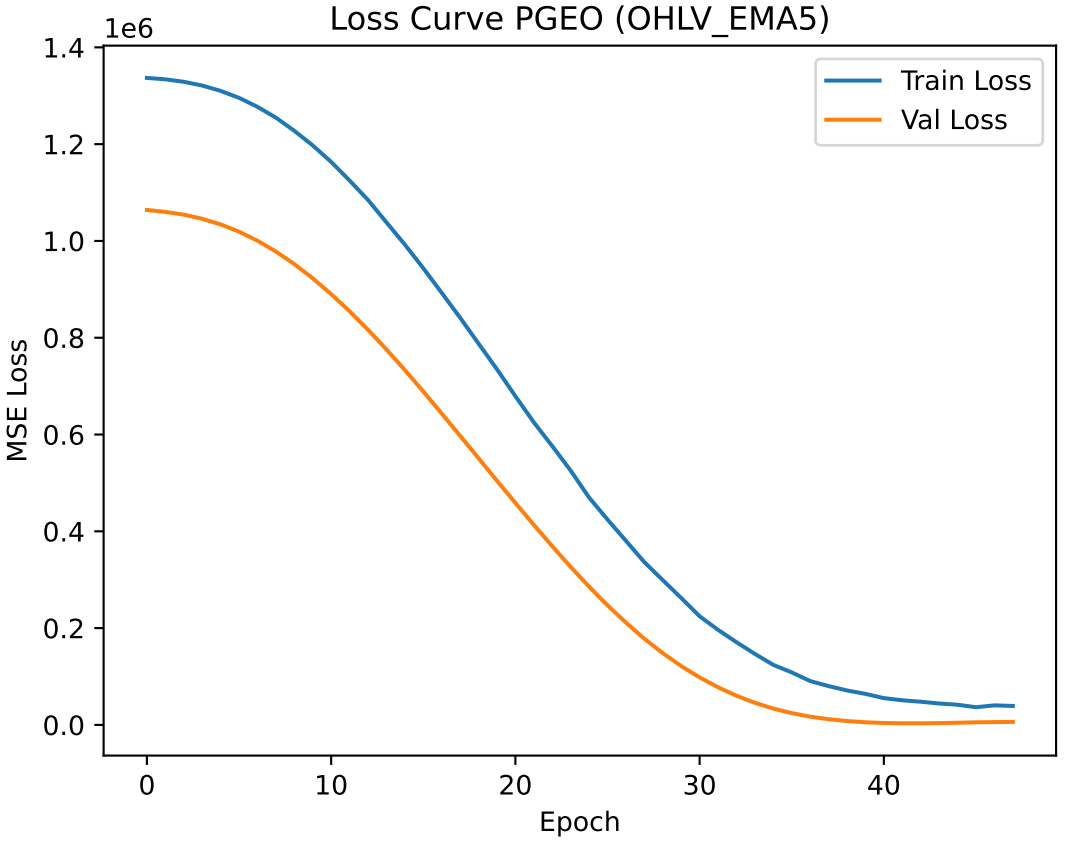
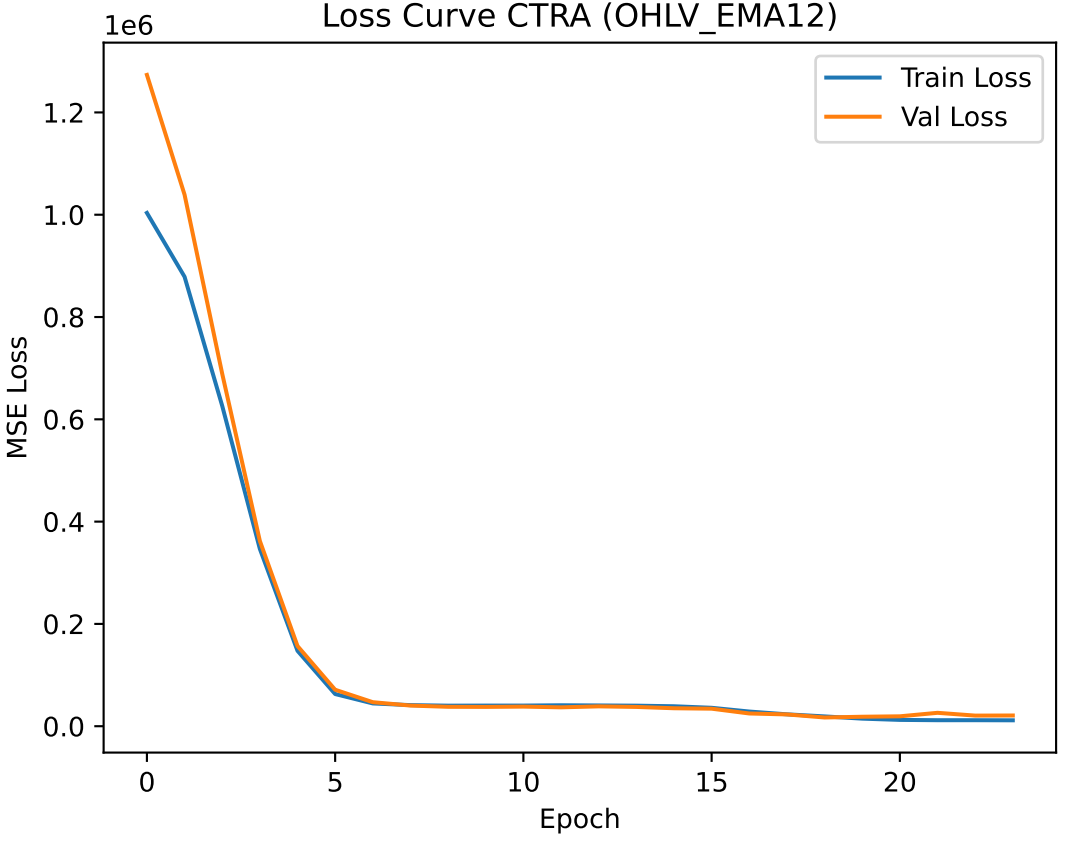
5
10
15
20
25
30
35
Epoch

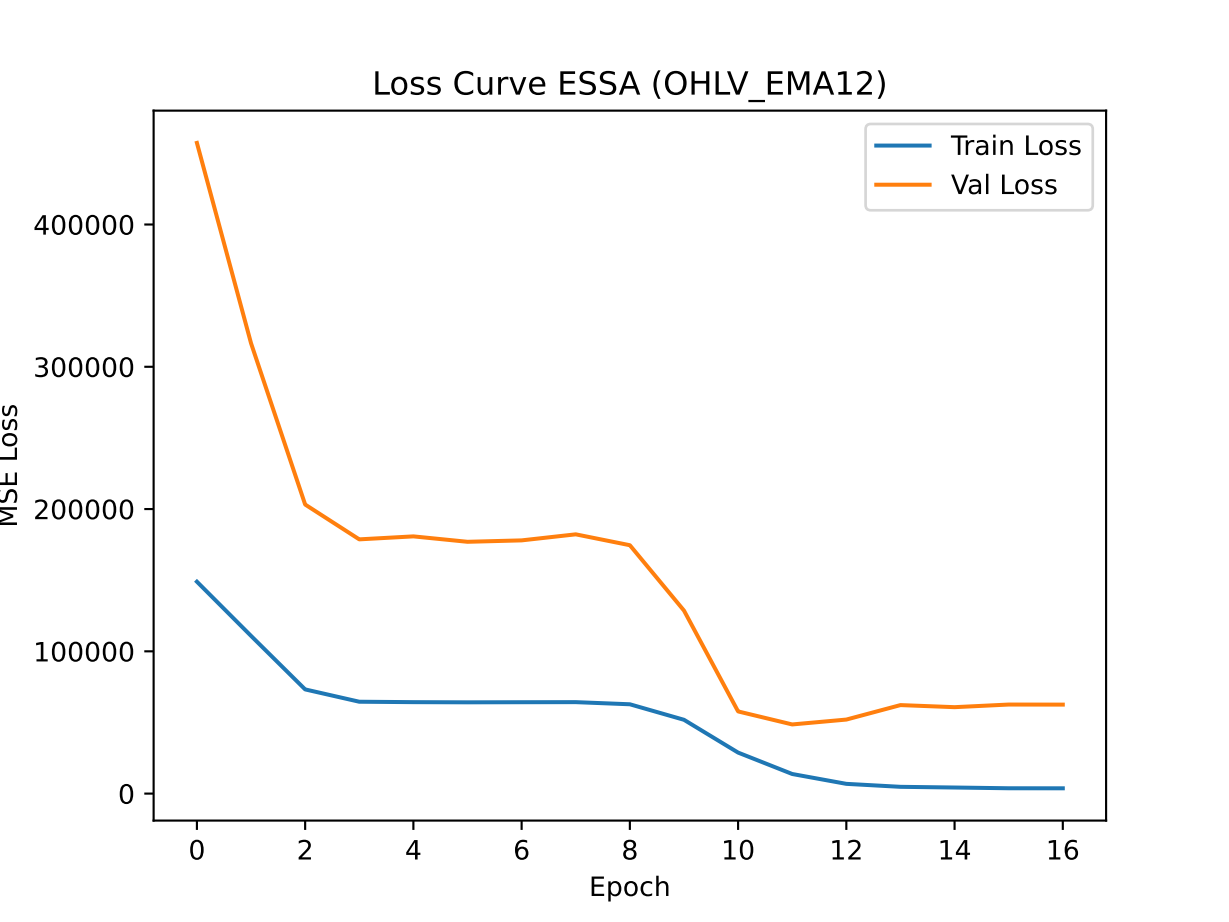

Loss Curve MDKA (OHLV_EMA5)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
25
30
Epoch

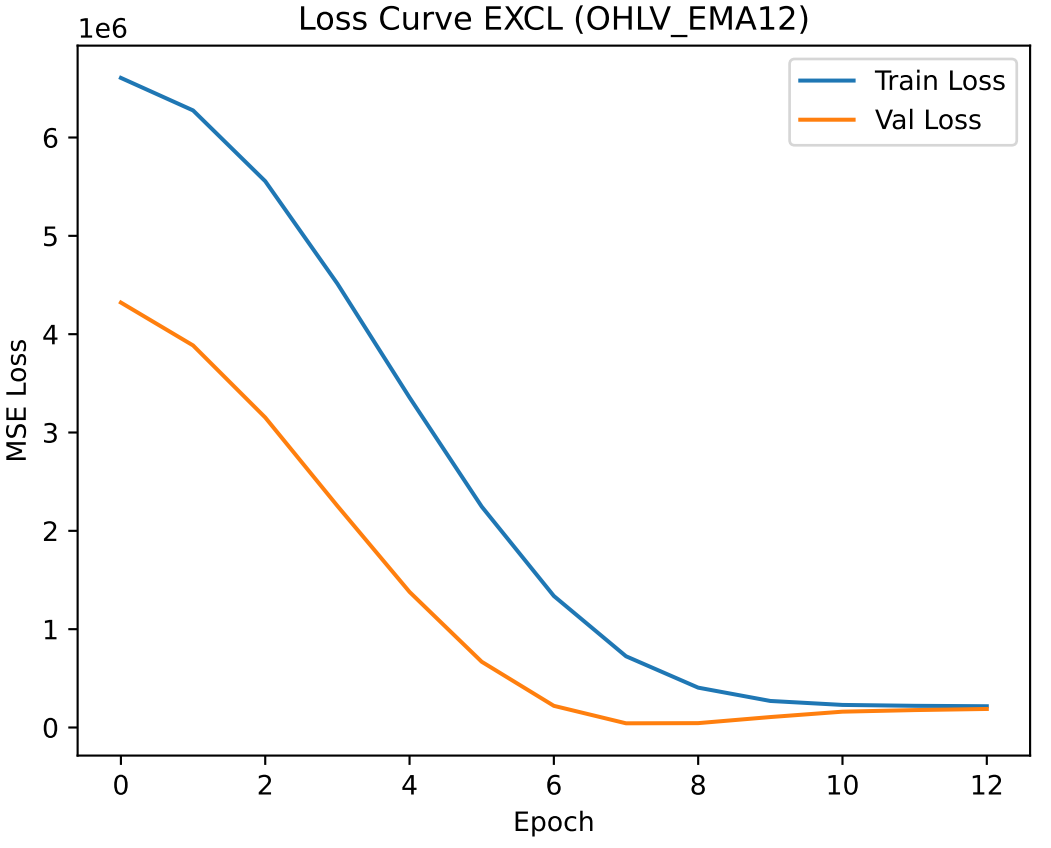

Loss Curve MEDC (OHLV_EMA5)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
Epoch

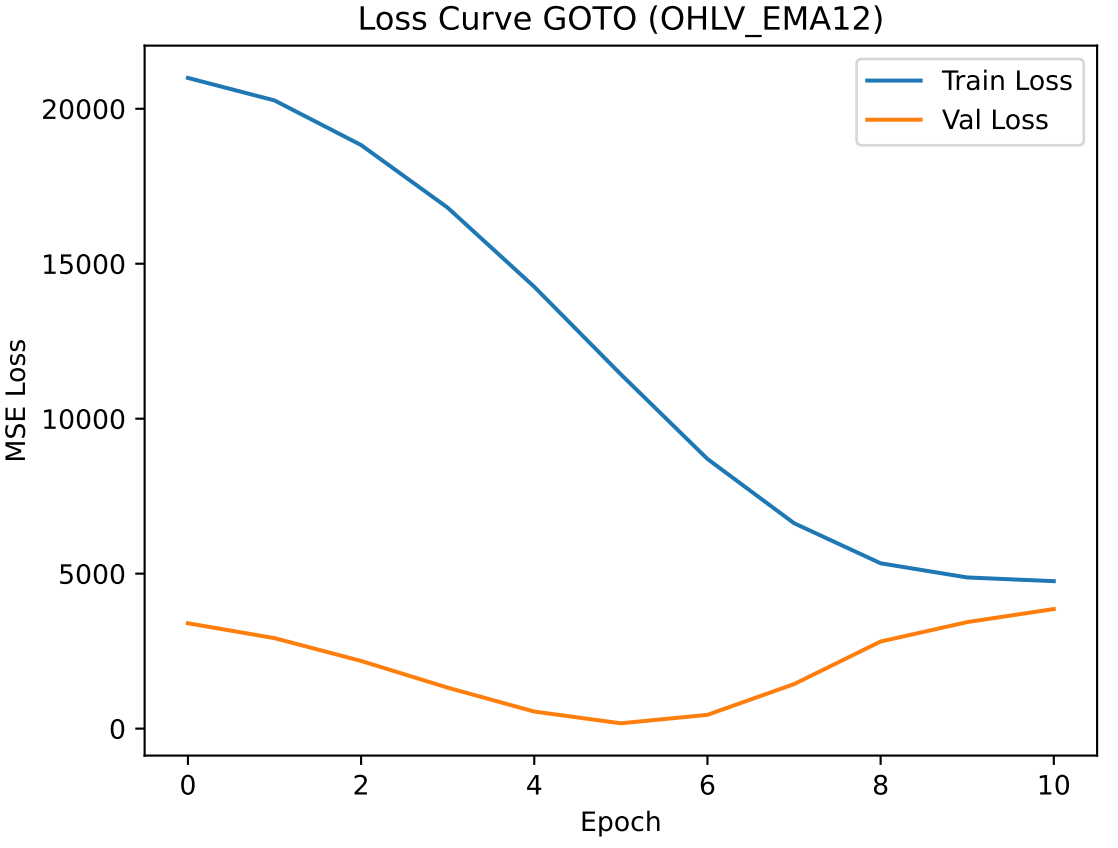

Loss Curve PGAS (OHLV_EMA5)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

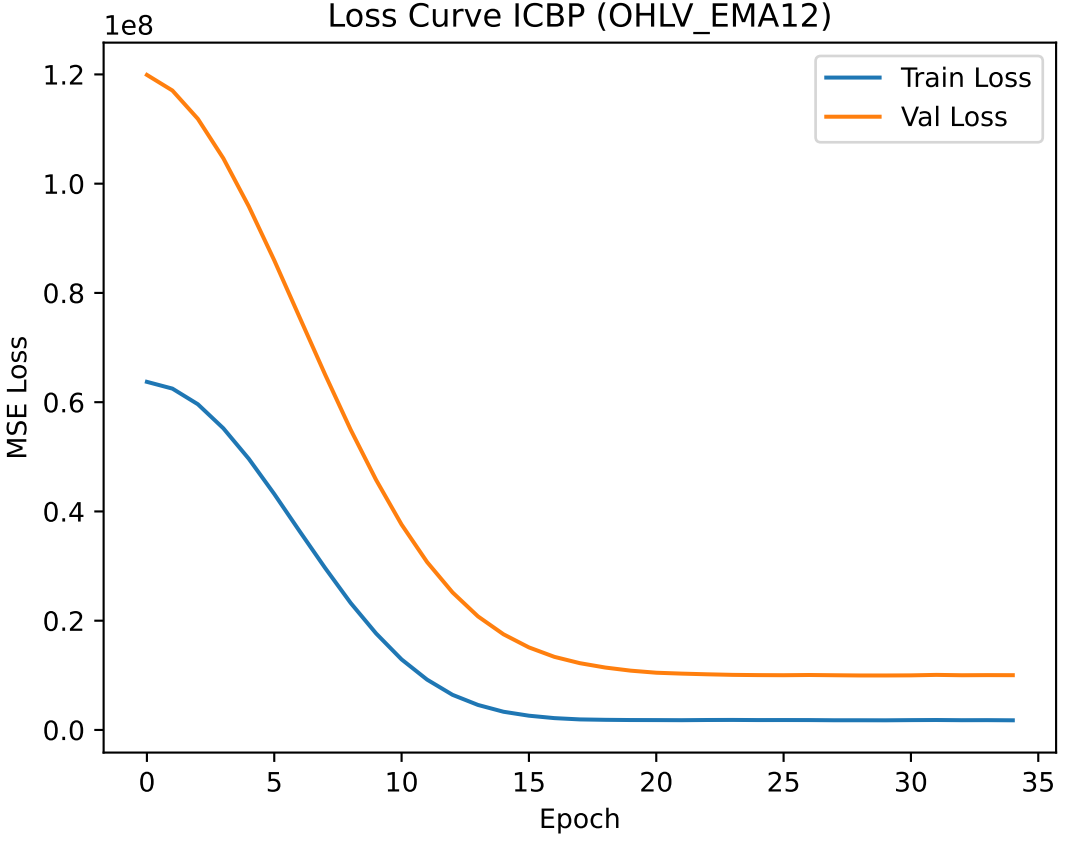

Loss Curve PGEO (OHLV_EMA5)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
Epoch

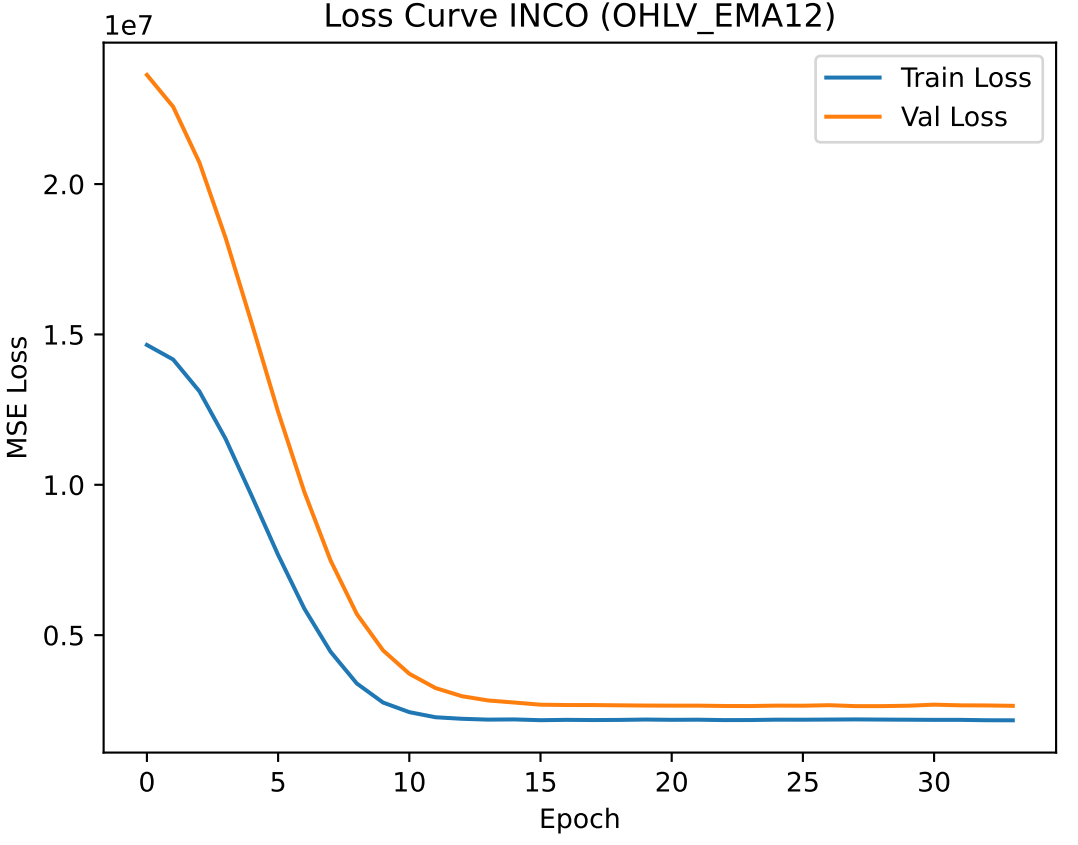

Loss Curve CTRA (OHLV_EMA12)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15
20

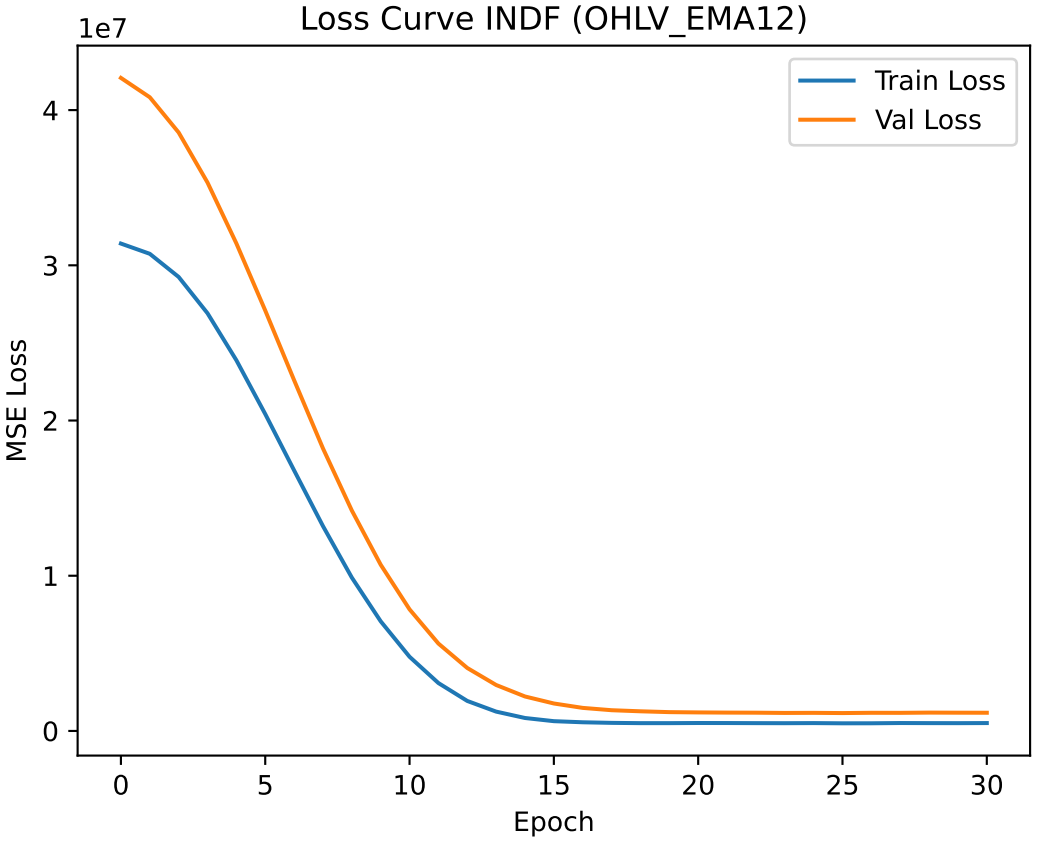

Loss Curve ESSA (OHLV_EMA12)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
2
4
6
8
10
12
14
16
Epoch

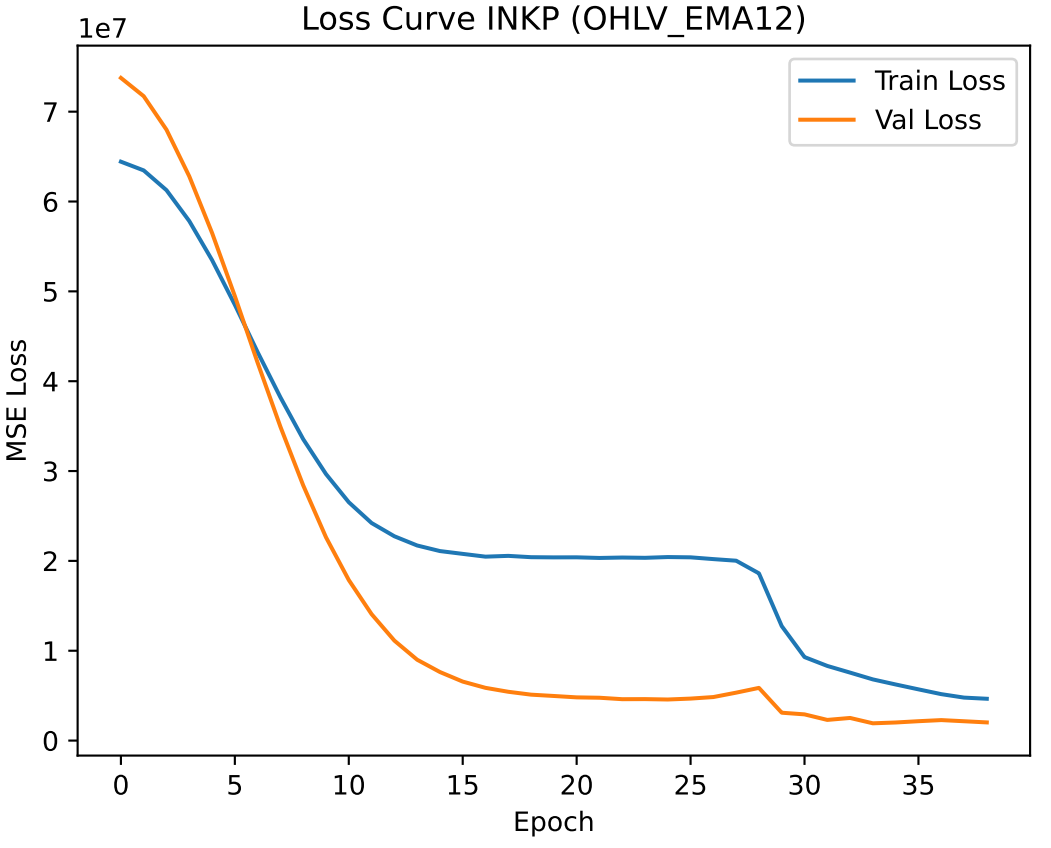

Loss Curve EXCL (OHLV_EMA12)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

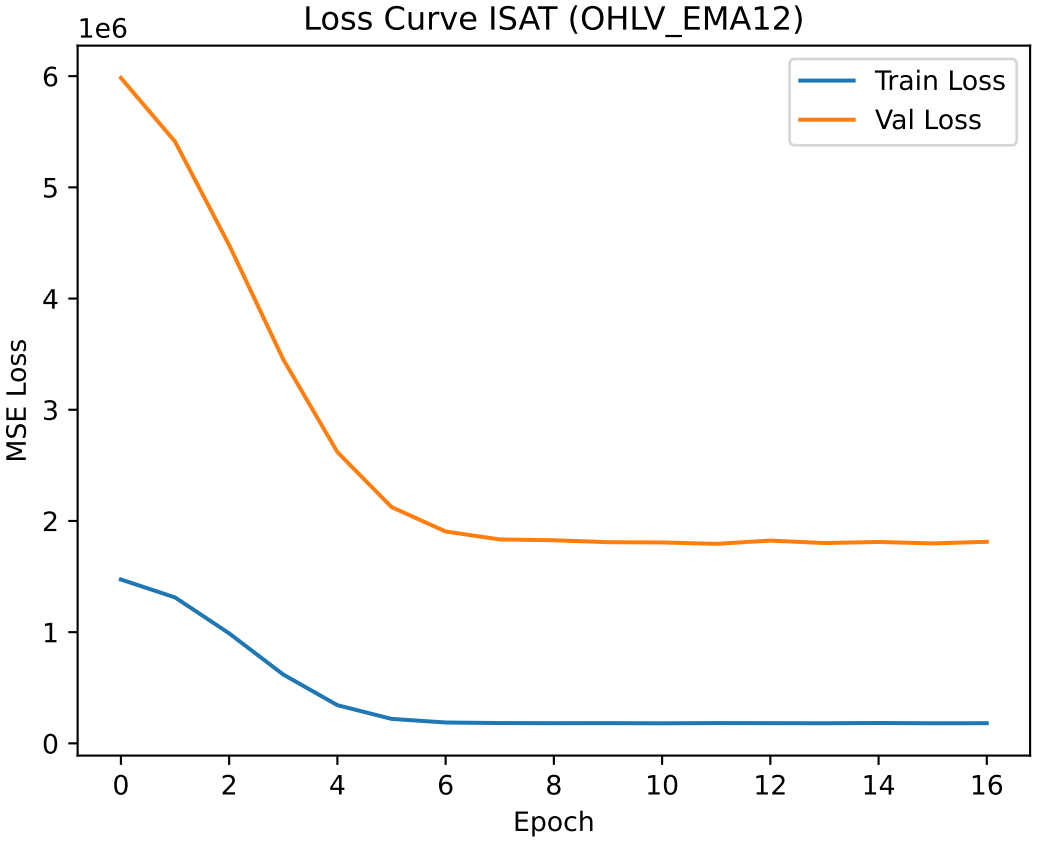

Loss Curve GOTO (OHLV_EMA12)
Train Loss
Val Loss
MSE Loss
Epoch
20000
15000
10000
5000
0
0
2
4
6
8
10

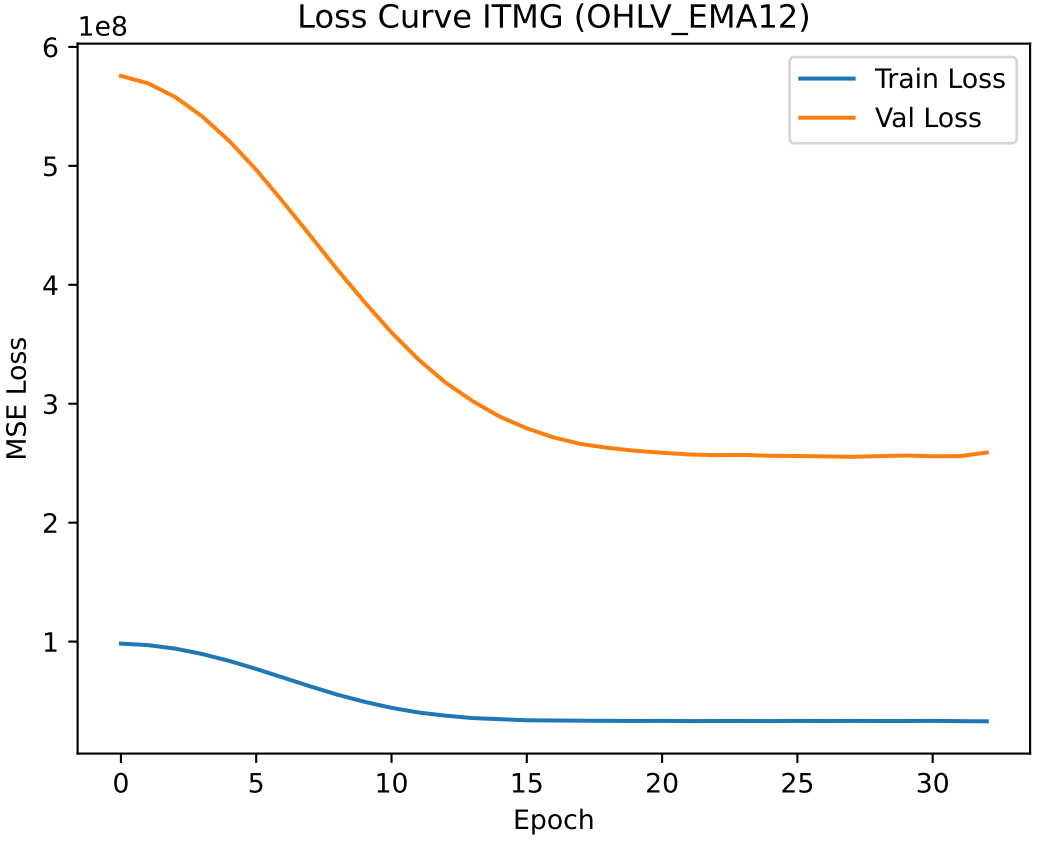

Loss Curve ICBP (OHLV_EMA12)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

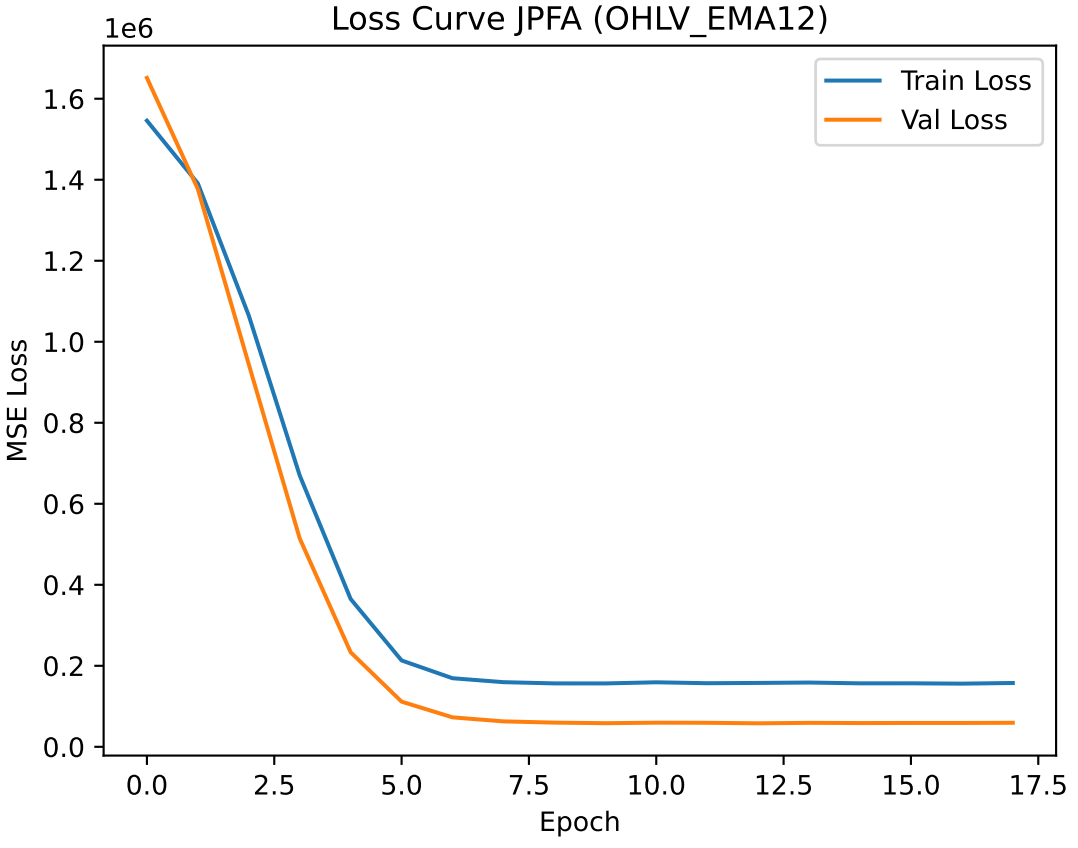

Loss Curve INCO (OHLV_EMA12)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0
5
10
15
20
25
30
Epoch

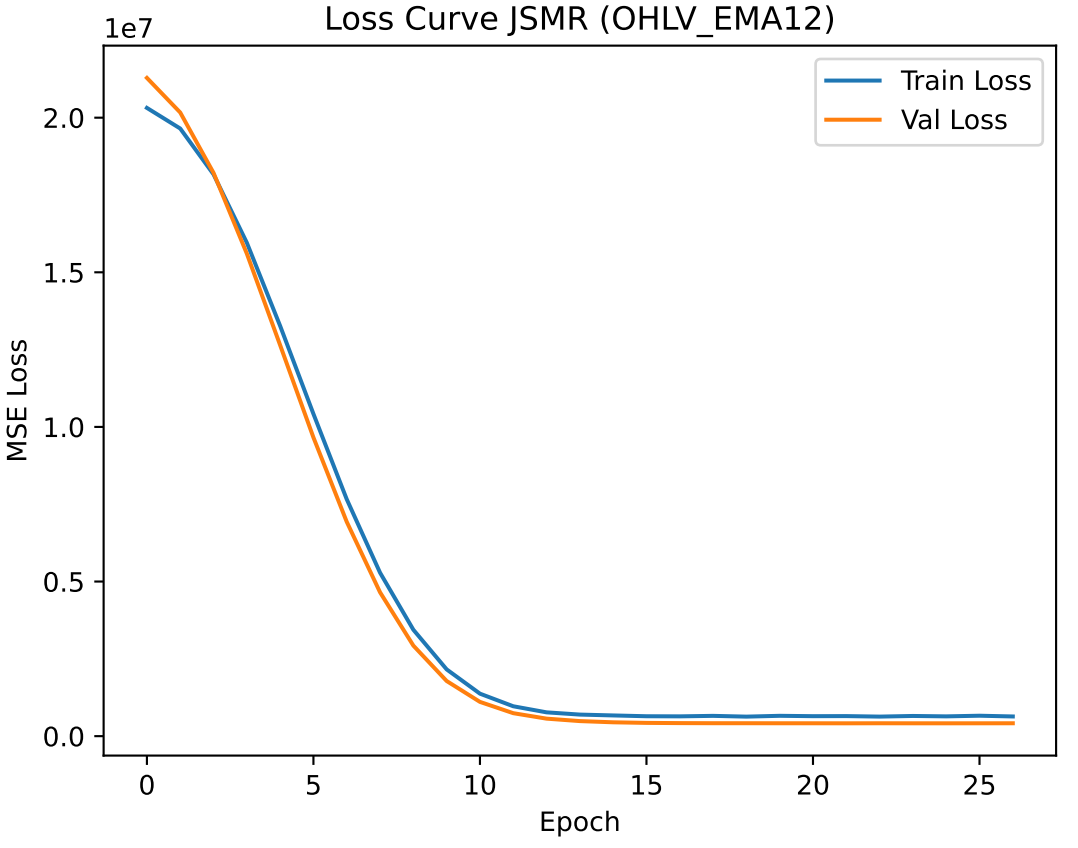

Loss Curve INDF (OHLV_EMA12)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30

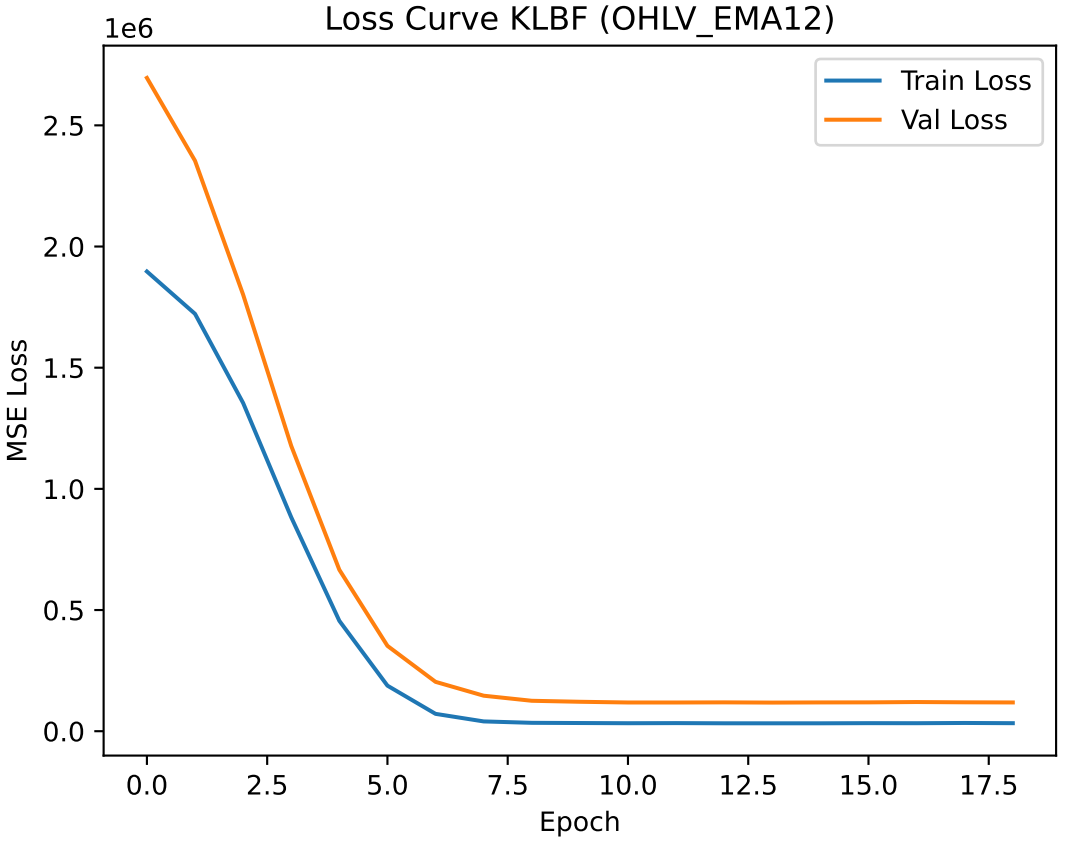

Loss Curve INKP (OHLV_EMA12)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
7
0
5
10
15
20
25
30
35

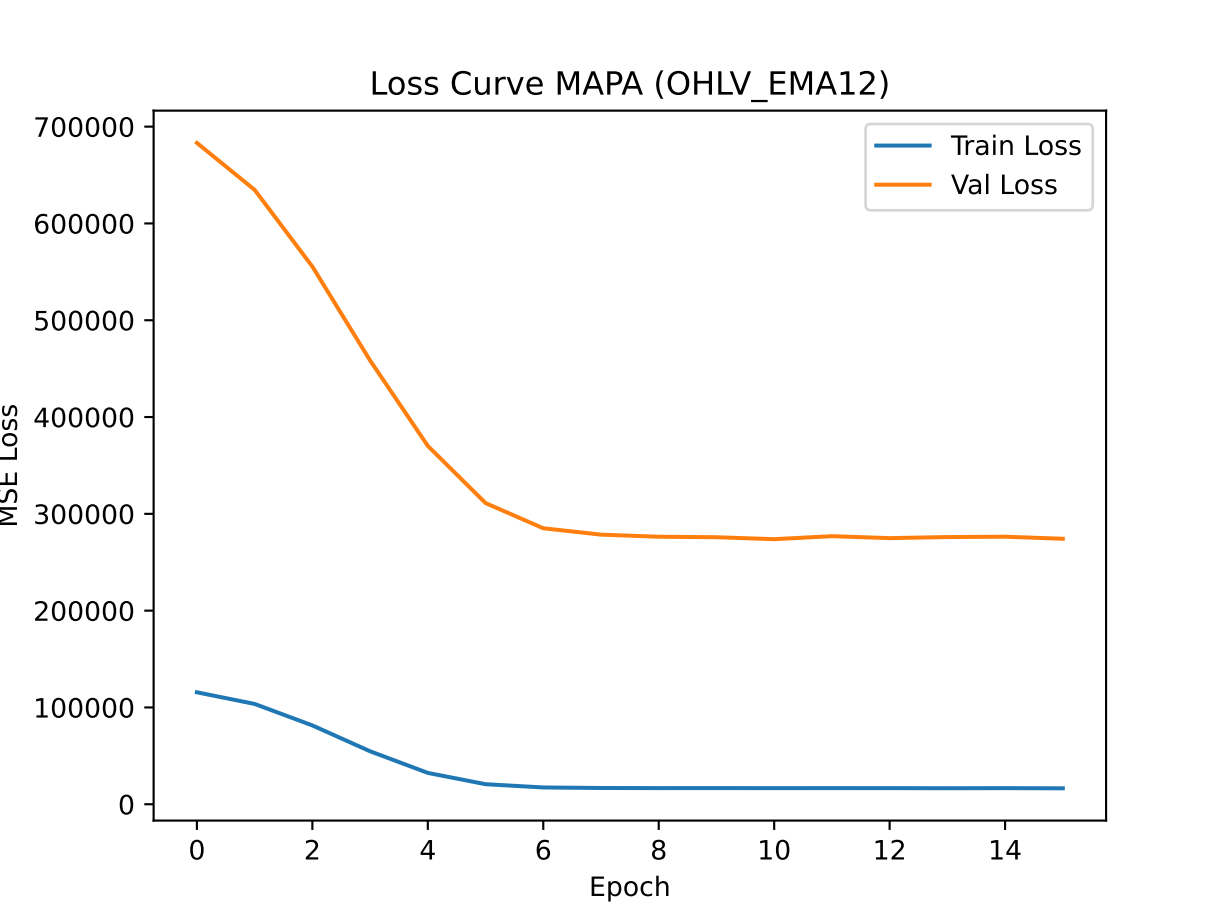

Loss Curve ISAT (OHLV_EMA12)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14
16

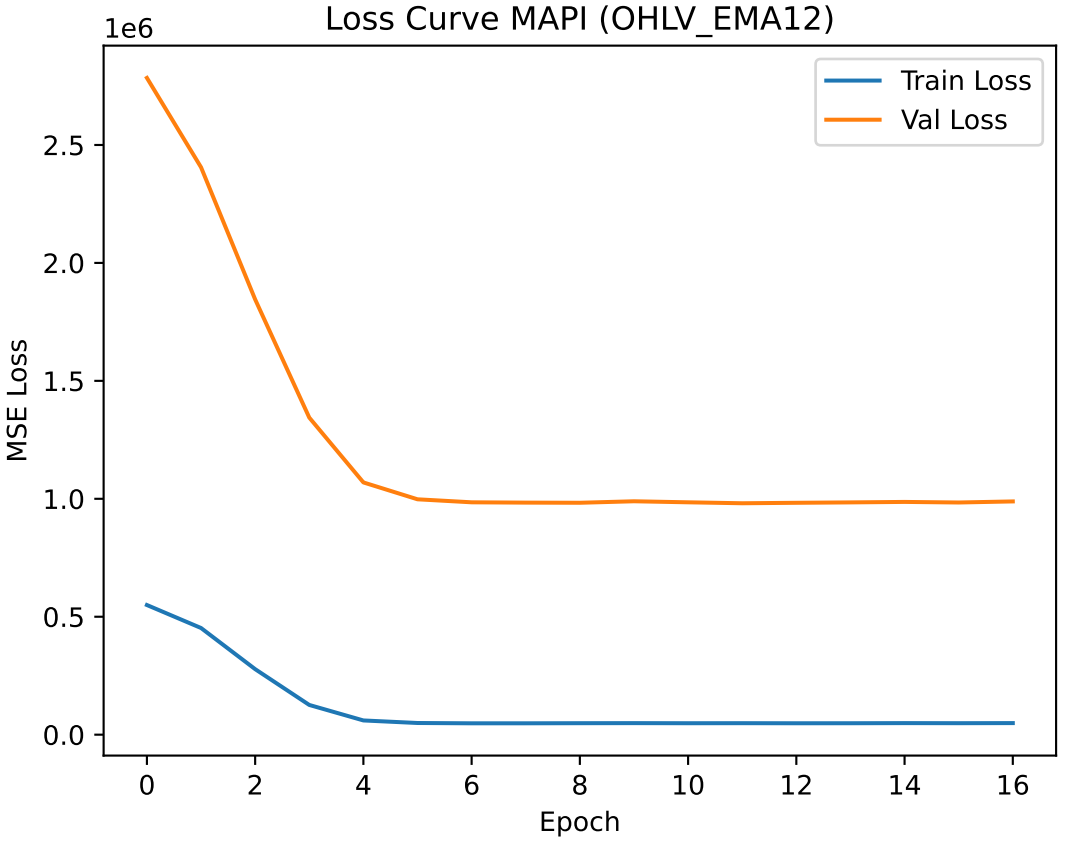

Loss Curve ITMG (OHLV_EMA12)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch

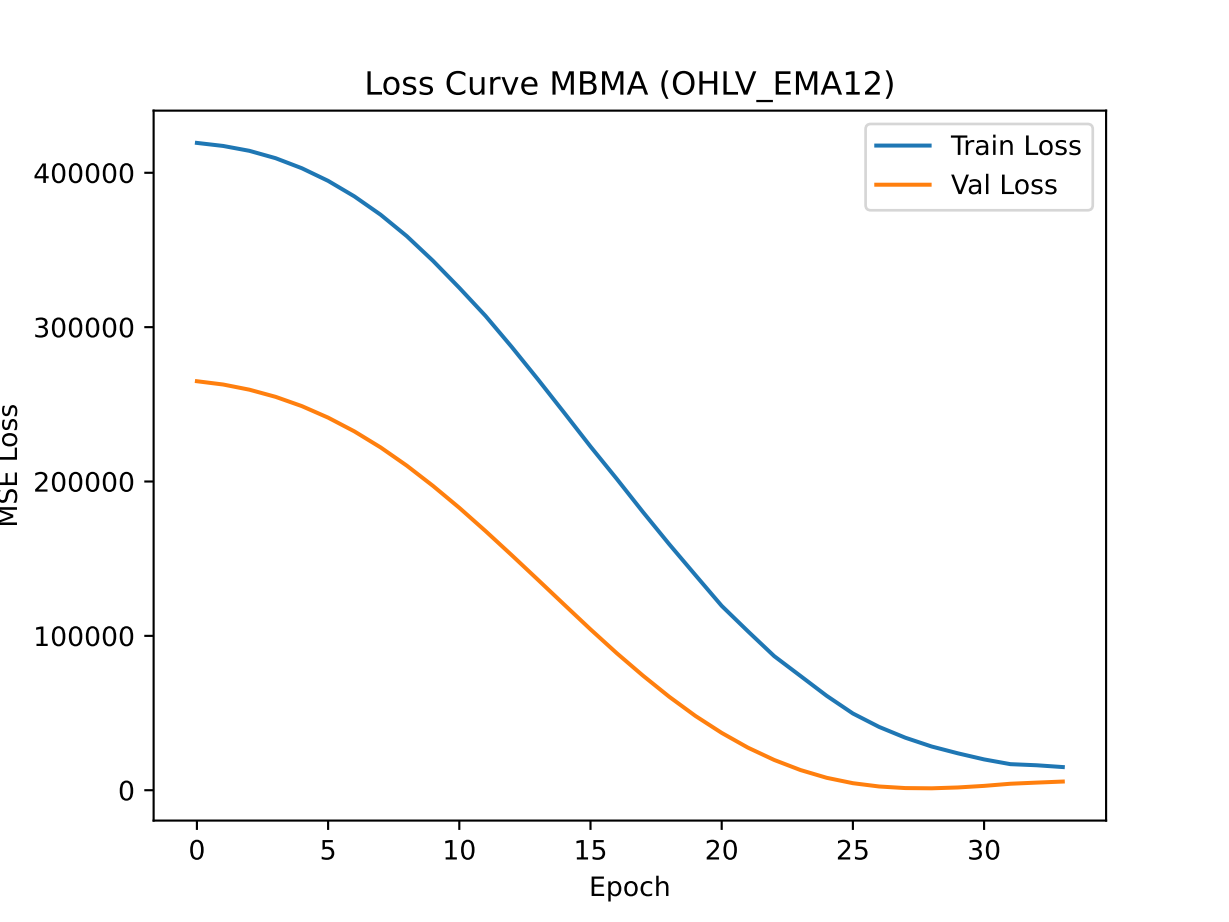

Loss Curve JPFA (OHLV_EMA12)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

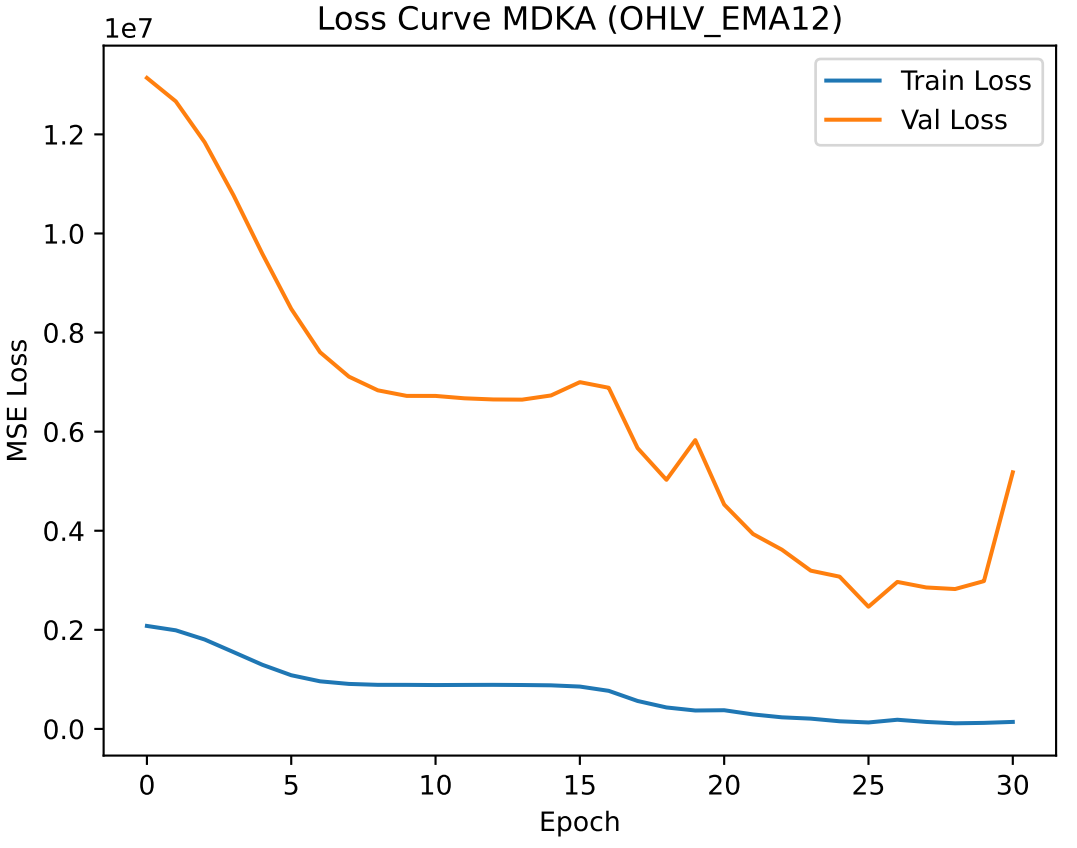

Loss Curve JSMR (OHLV_EMA12)
1e7
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
5
10
15
20
25
Epoch
Train Loss
Val Loss

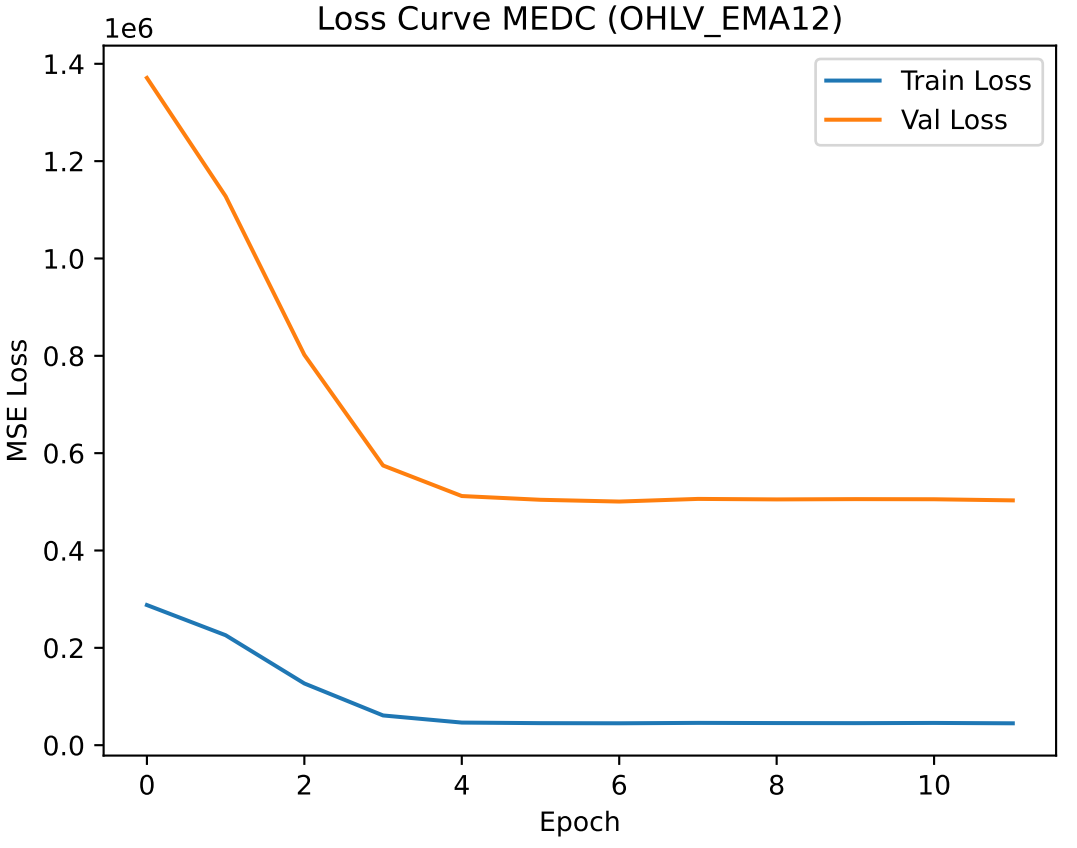

Loss Curve KLBF (OHLV_EMA12)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

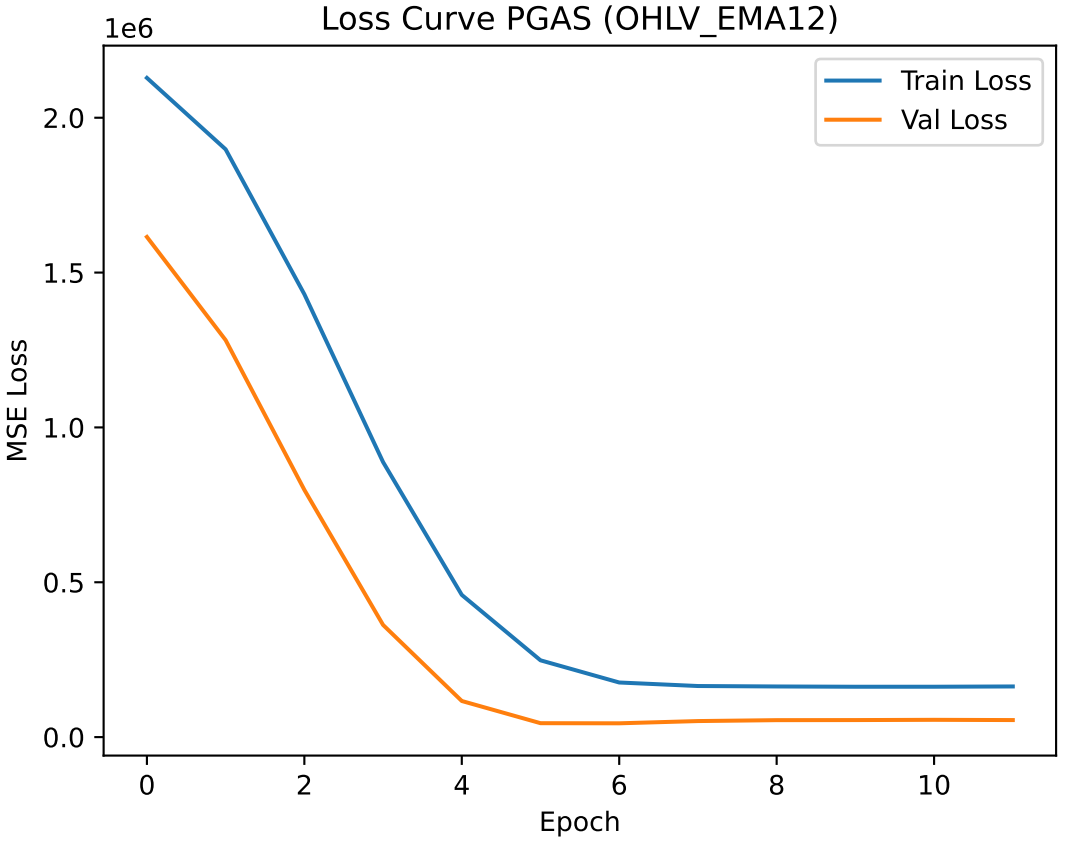

Loss Curve MAPA (OHLV_EMA12)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14

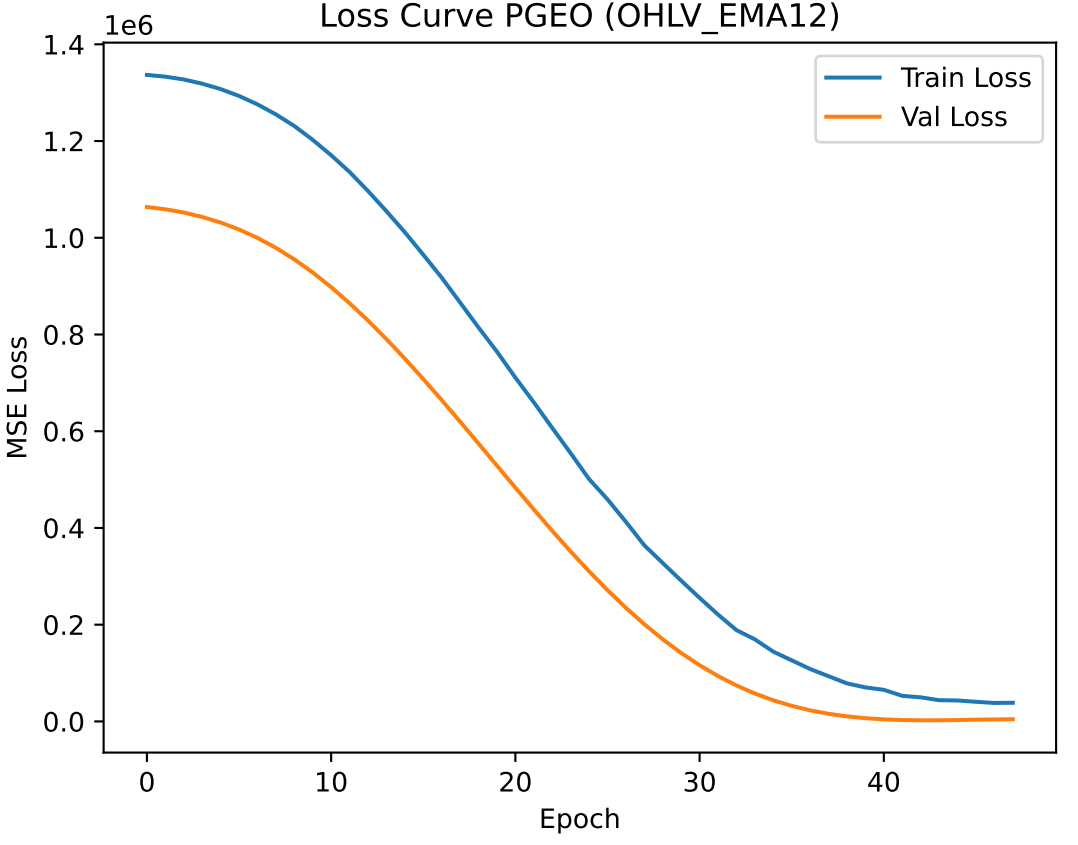

Loss Curve MAPI (OHLV_EMA12)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
16
Epoch

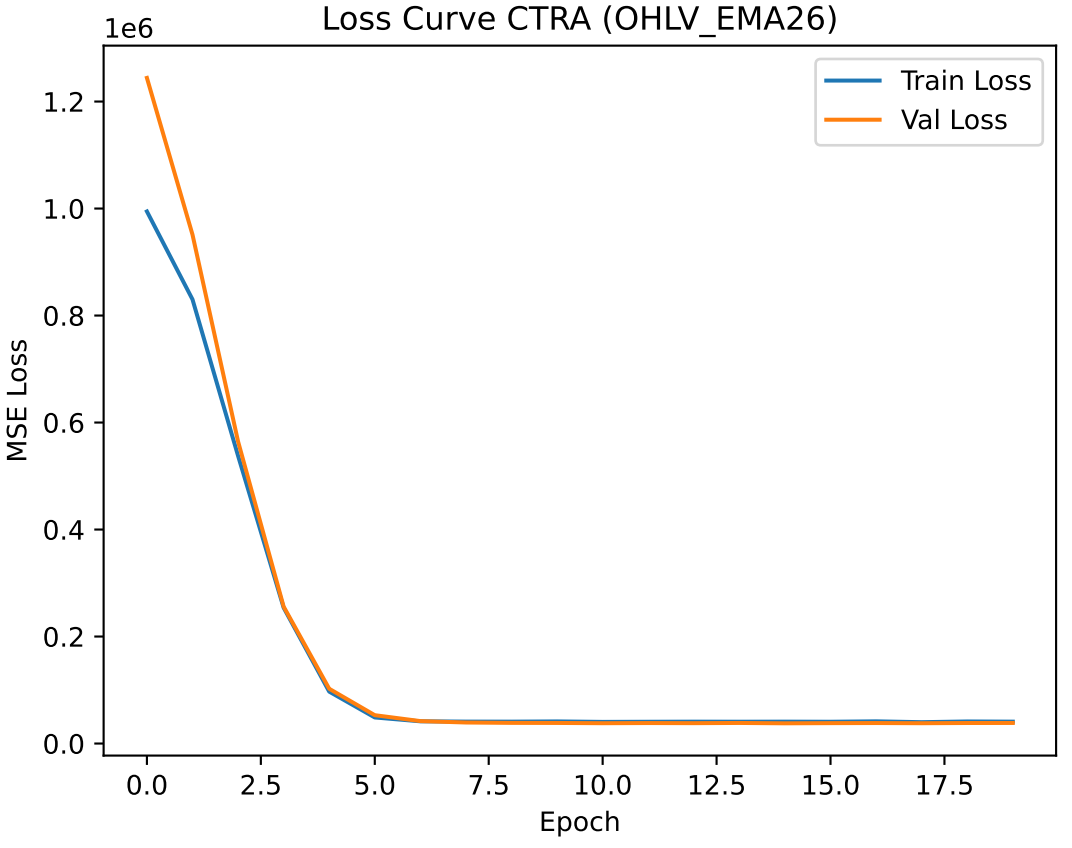

Loss Curve MBMA (OHLV_EMA12)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
Epoch

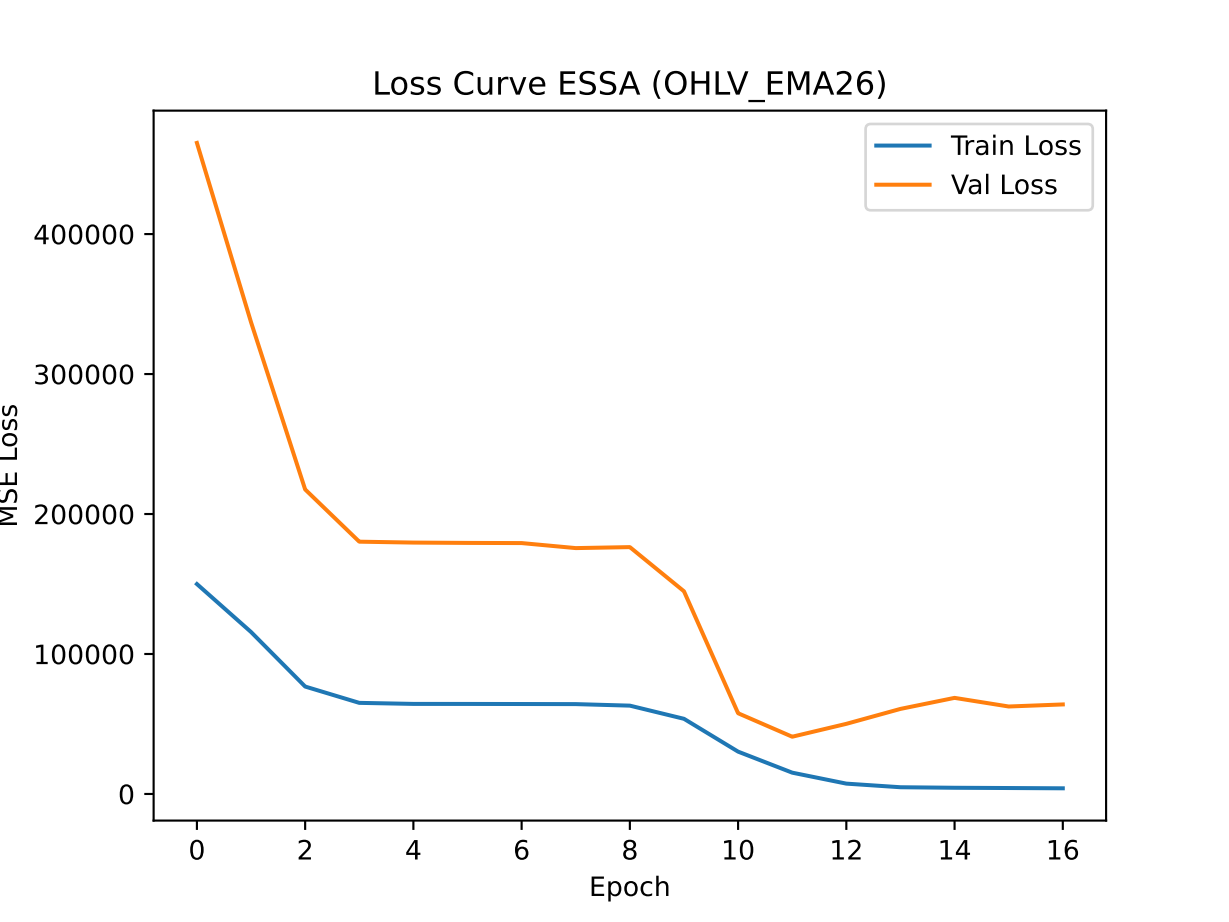

Loss Curve MDKA (OHLV_EMA12)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15
20
25
30

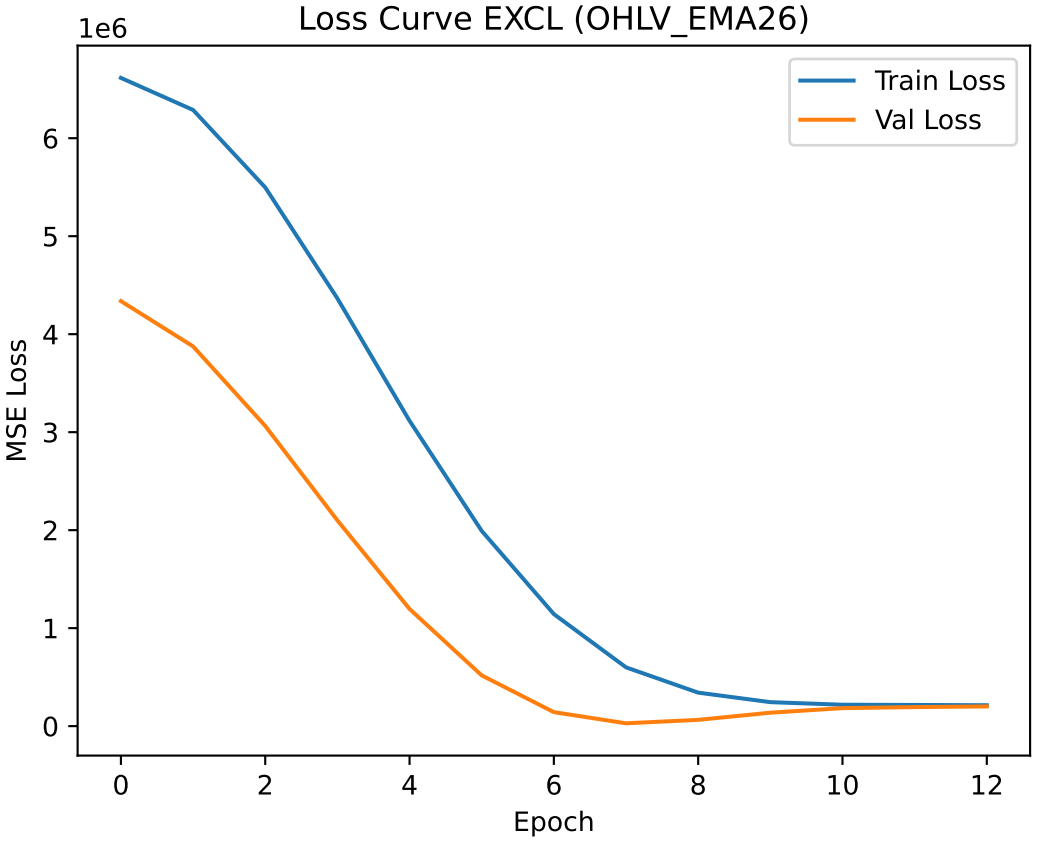

Loss Curve MEDC (OHLV_EMA12)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
Epoch

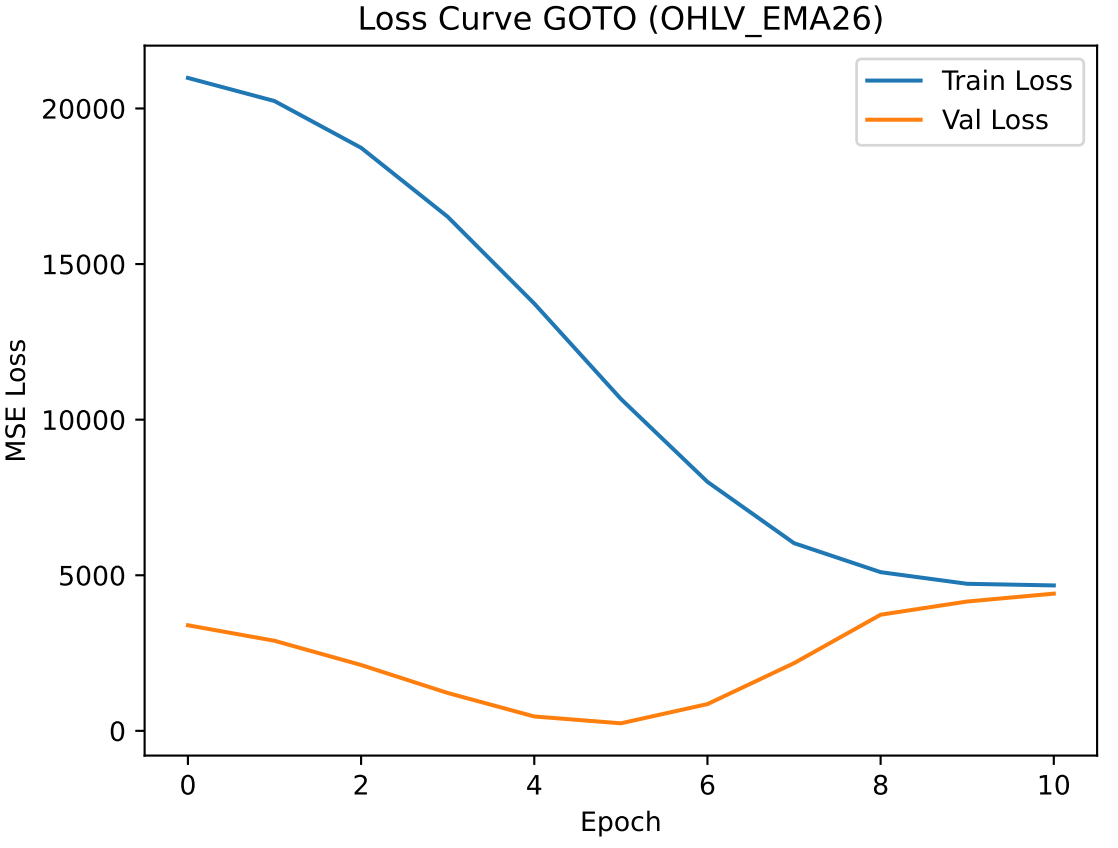

Loss Curve PGAS (OHLV_EMA12)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

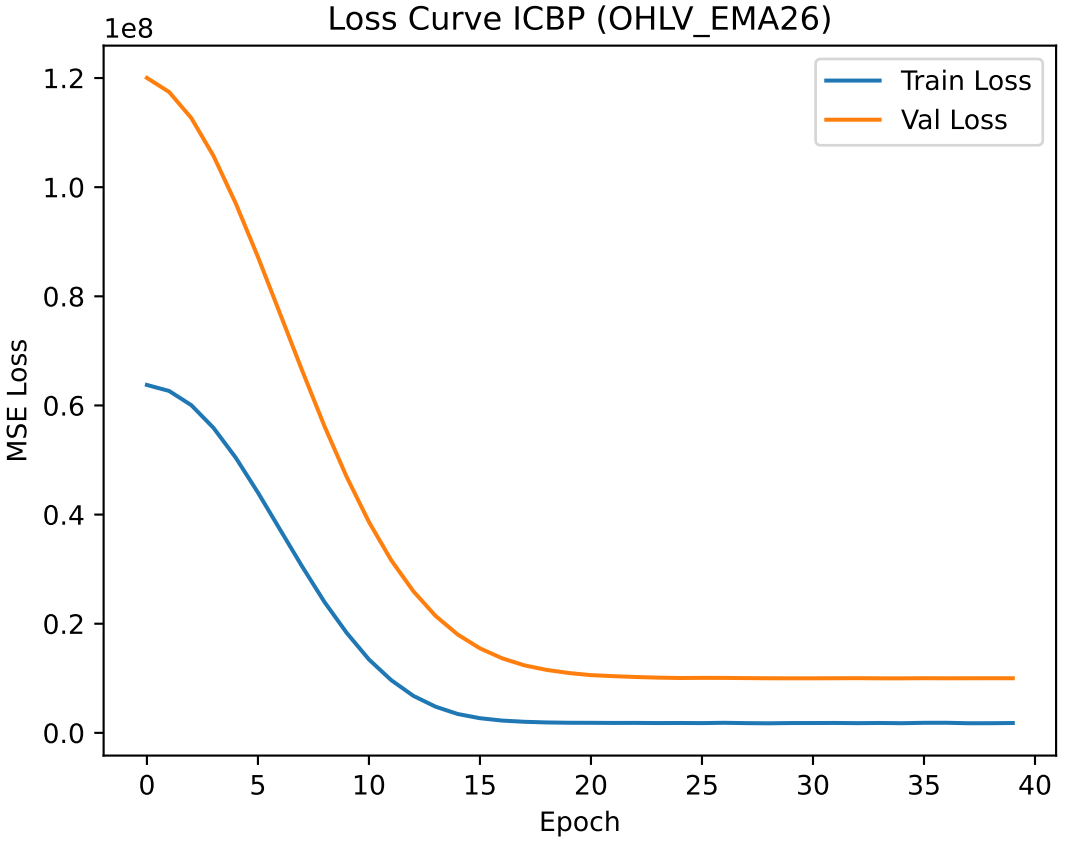

Loss Curve PGEO (OHLV_EMA12)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
Epoch

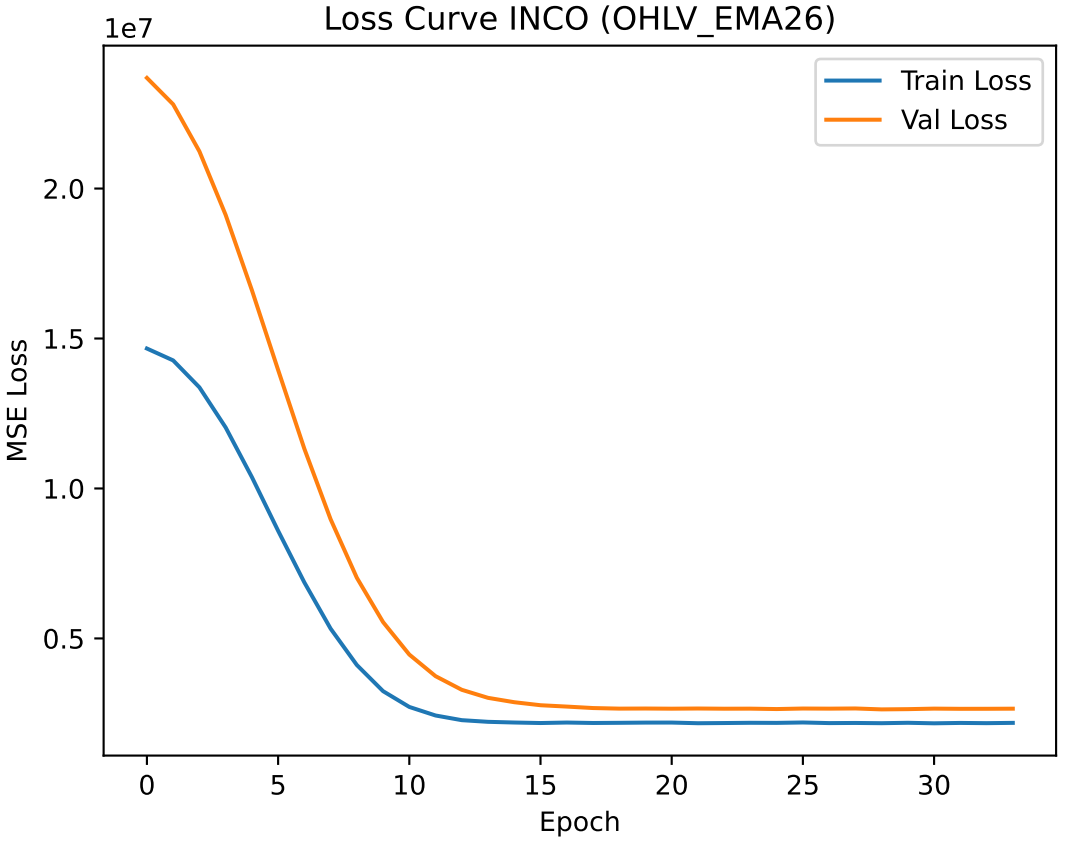

Loss Curve CTRA (OHLV_EMA26)
1e6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch
Train Loss
Val Loss

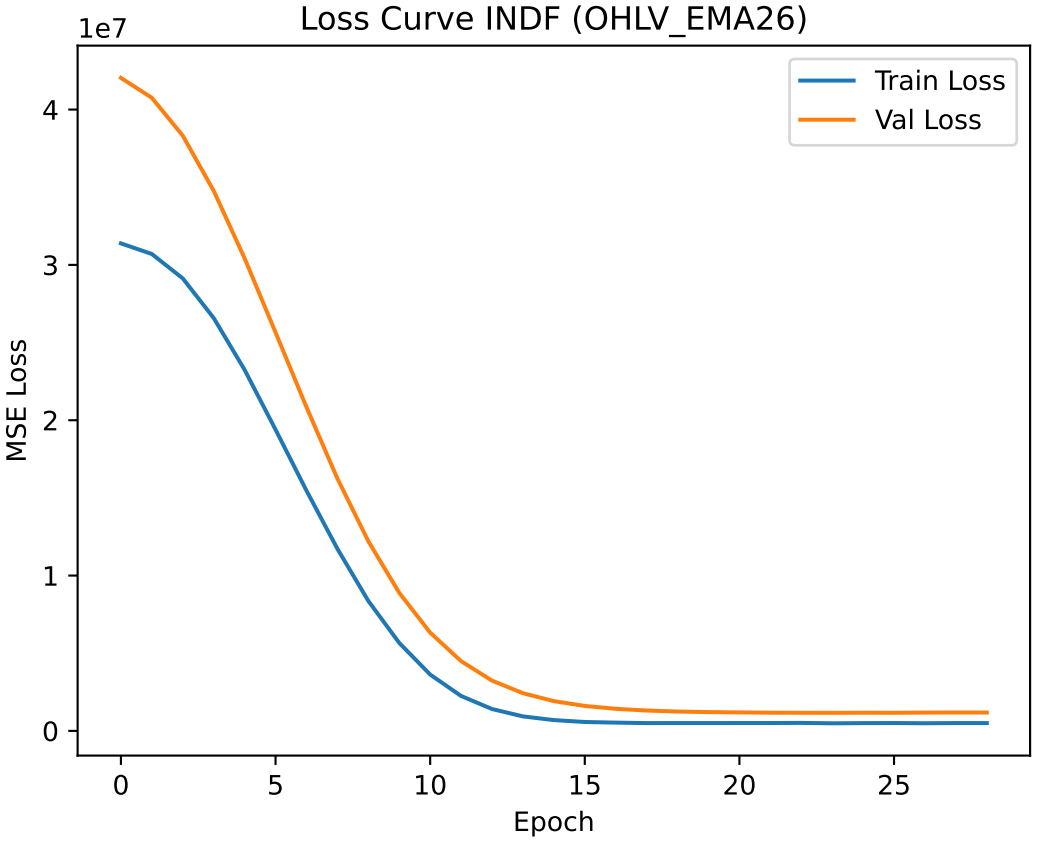

Loss Curve ESSA (OHLV_EMA26)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
2
4
6
8
10
12
14
16
Epoch

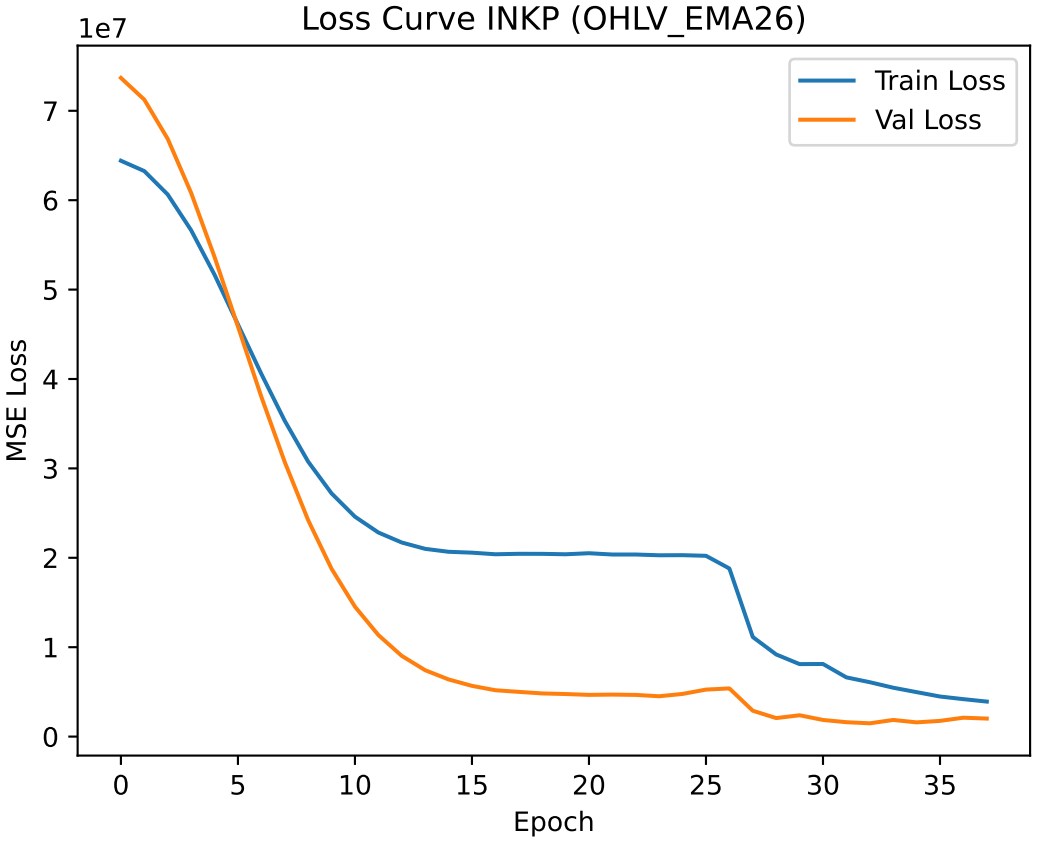

Loss Curve EXCL (OHLV_EMA26)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

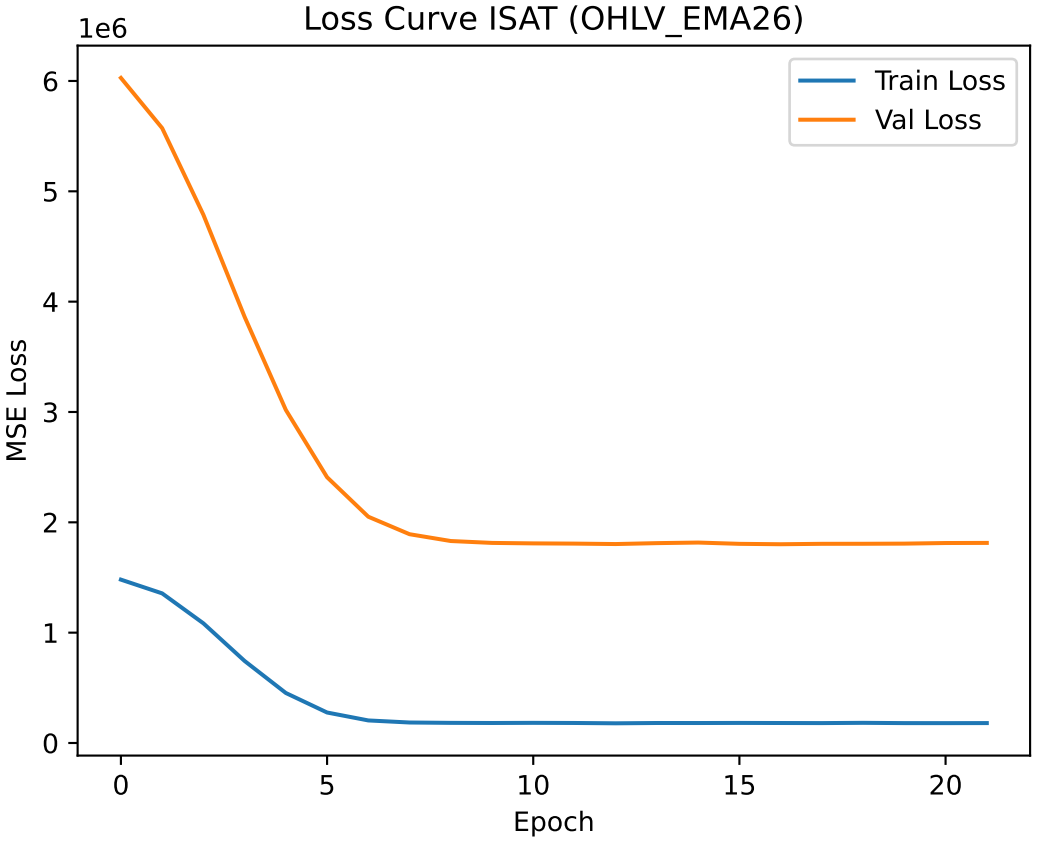

Loss Curve GOTO (OHLV_EMA26)
Train Loss
Val Loss
MSE Loss
Epoch
20000
15000
10000
5000
0
0
2
4
6
8
10

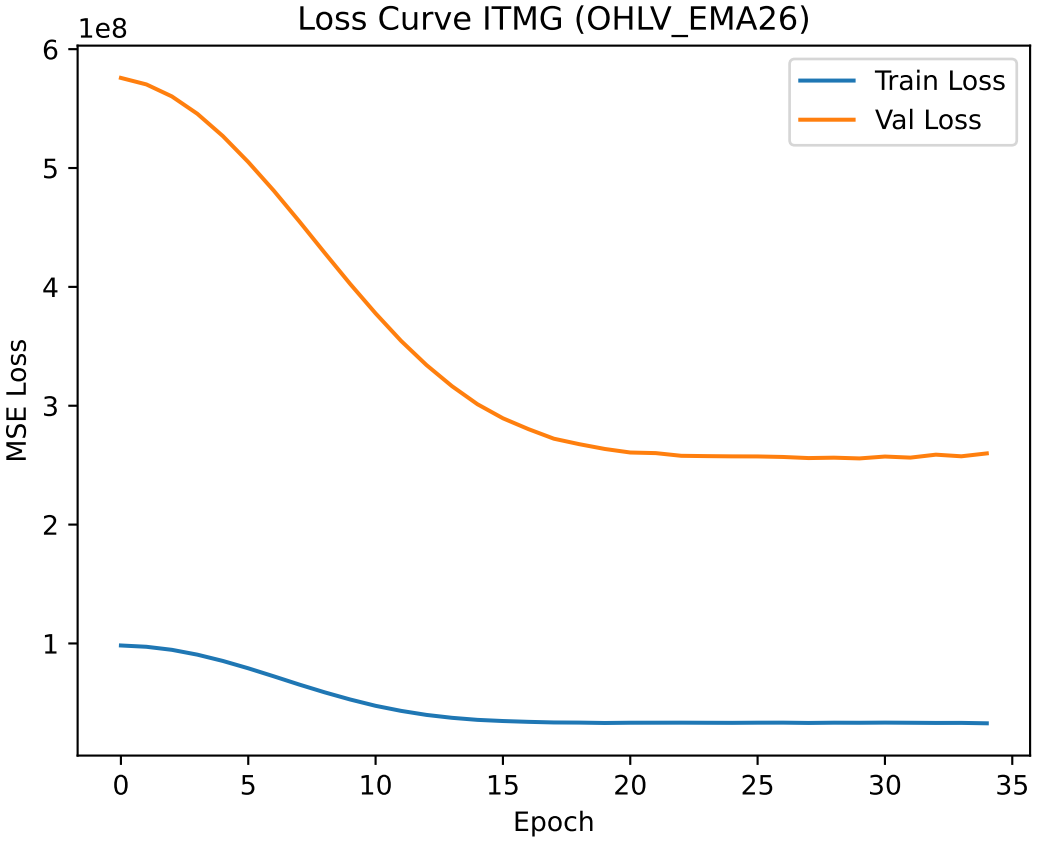

Loss Curve ICBP (OHLV_EMA26)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
40
Epoch

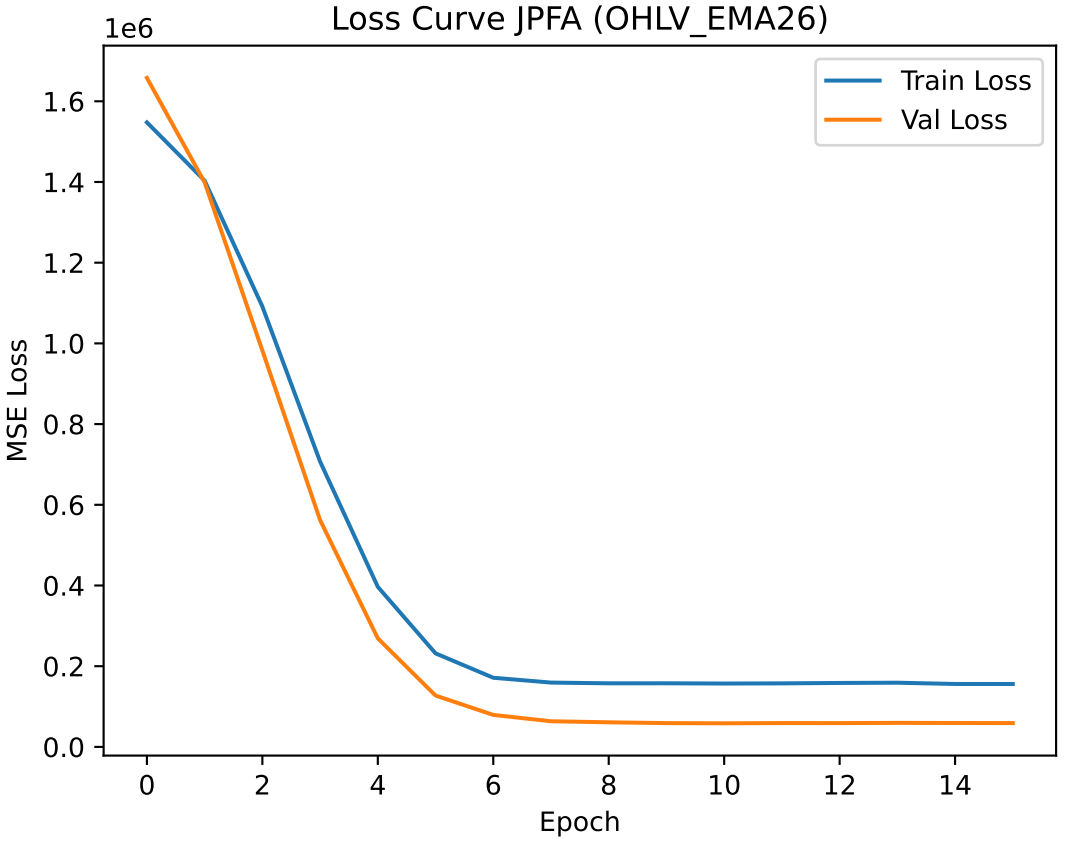

Loss Curve INCO (OHLV_EMA26)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
30
Epoch


Loss Curve INDF (OHLV_EMA26)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25


Loss Curve INKP (OHLV_EMA26)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
7
0
5
10
15
20
25
30
35


Loss Curve ISAT (OHLV_EMA26)
1e6
6
5
4
3
2
1
0
MSE Loss
0
5
10
15
20
Epoch
Train Loss
Val Loss


Loss Curve ITMG (OHLV_EMA26)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch


Loss Curve JPFA (OHLV_EMA26)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
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1.0
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1.4
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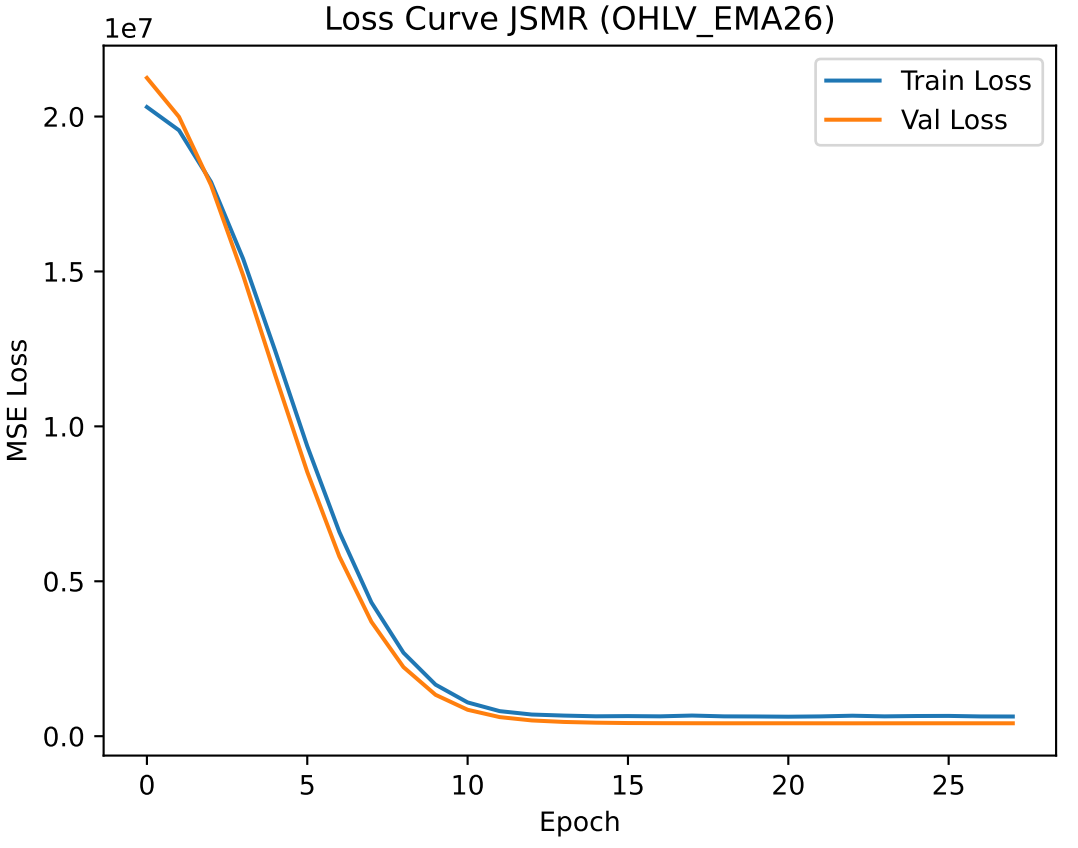
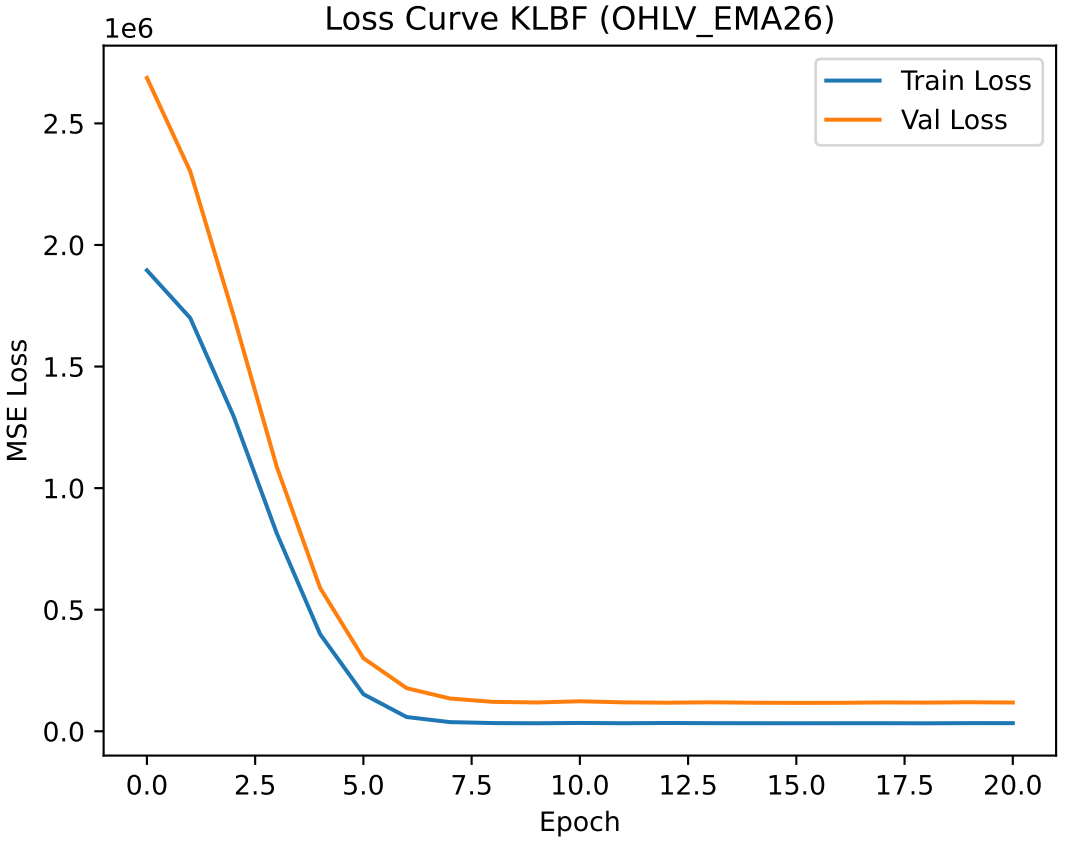
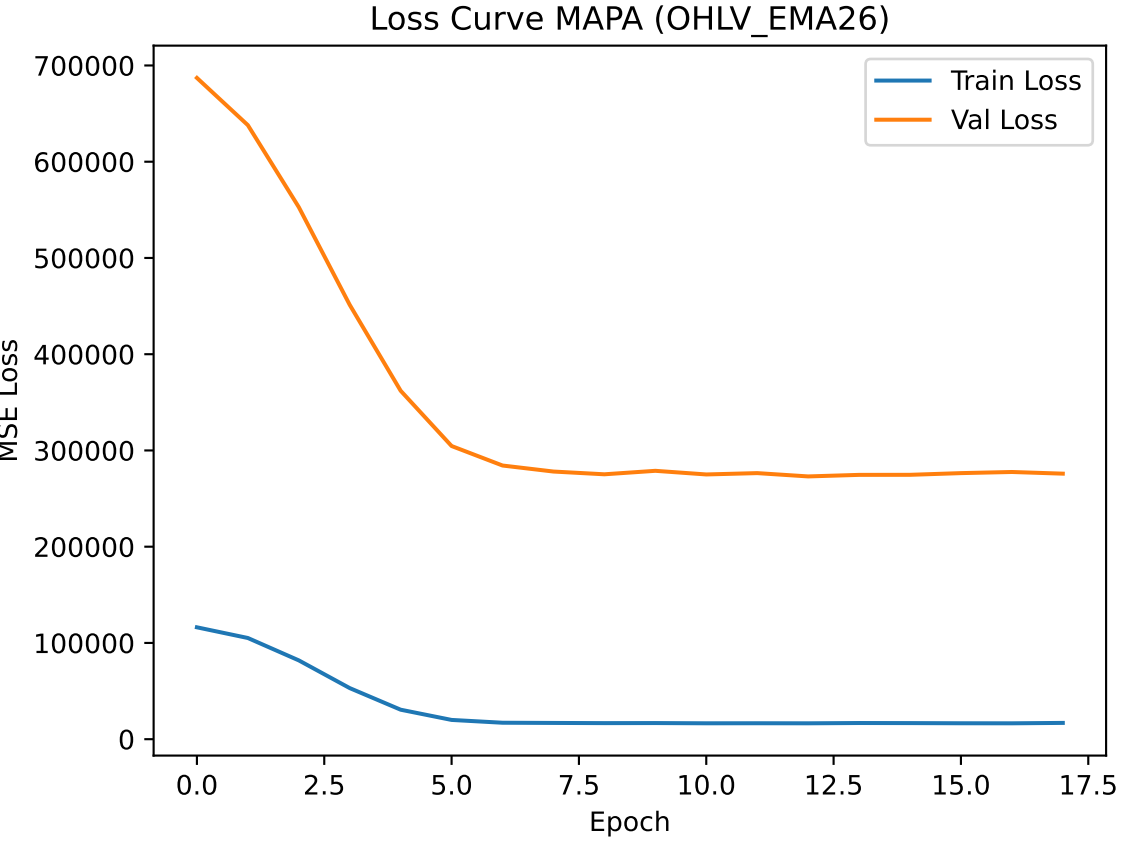
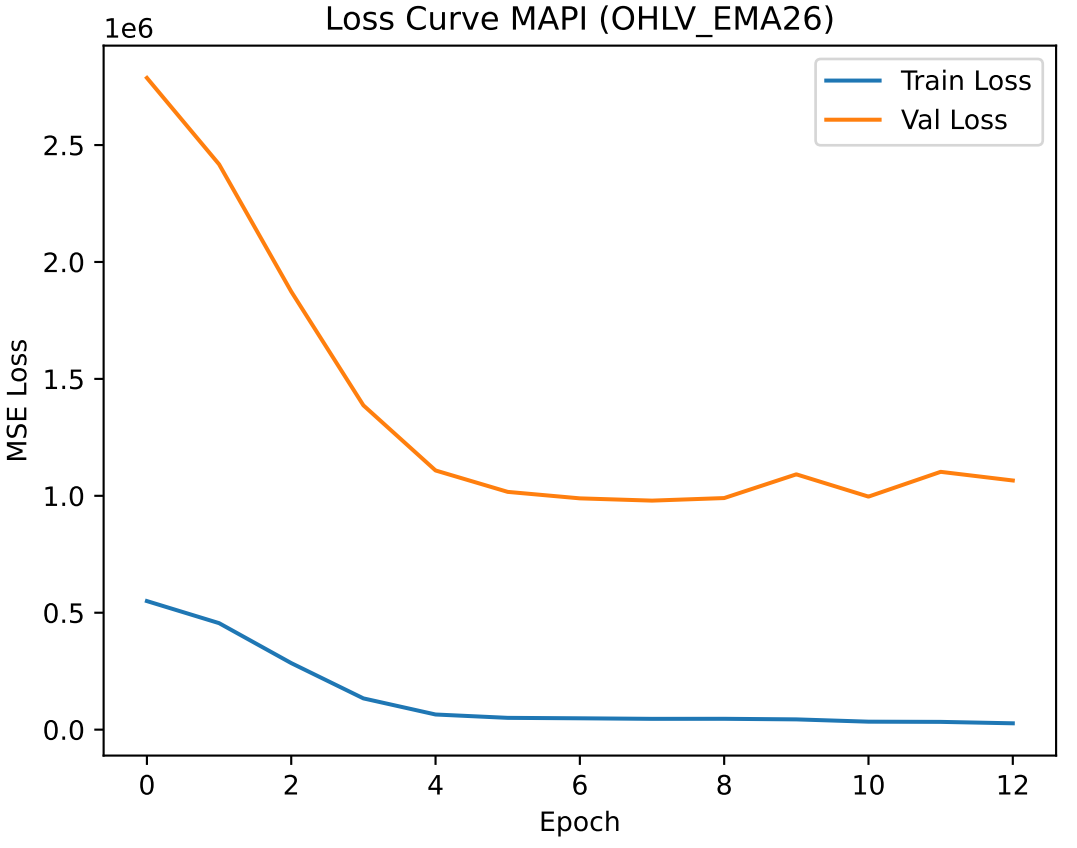
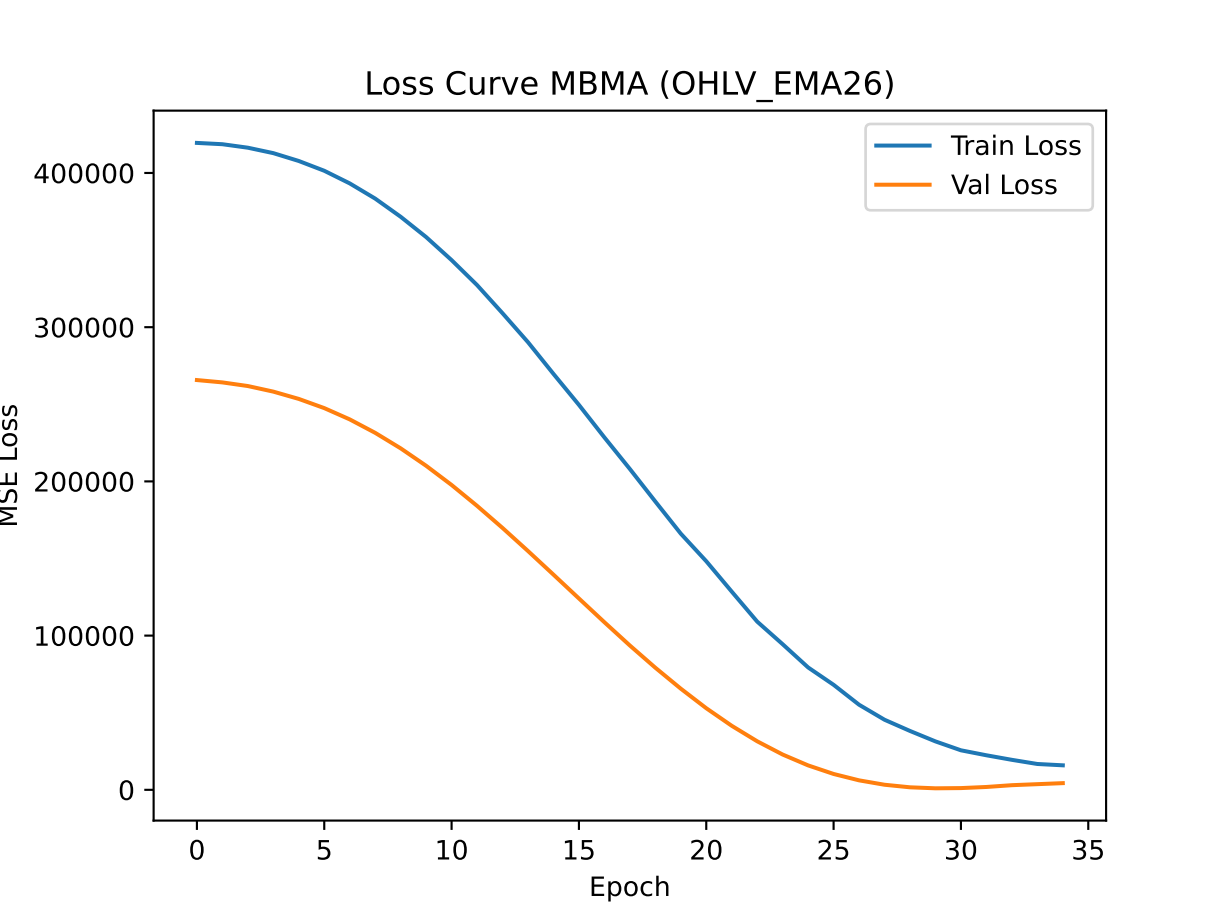
8
10
12
14

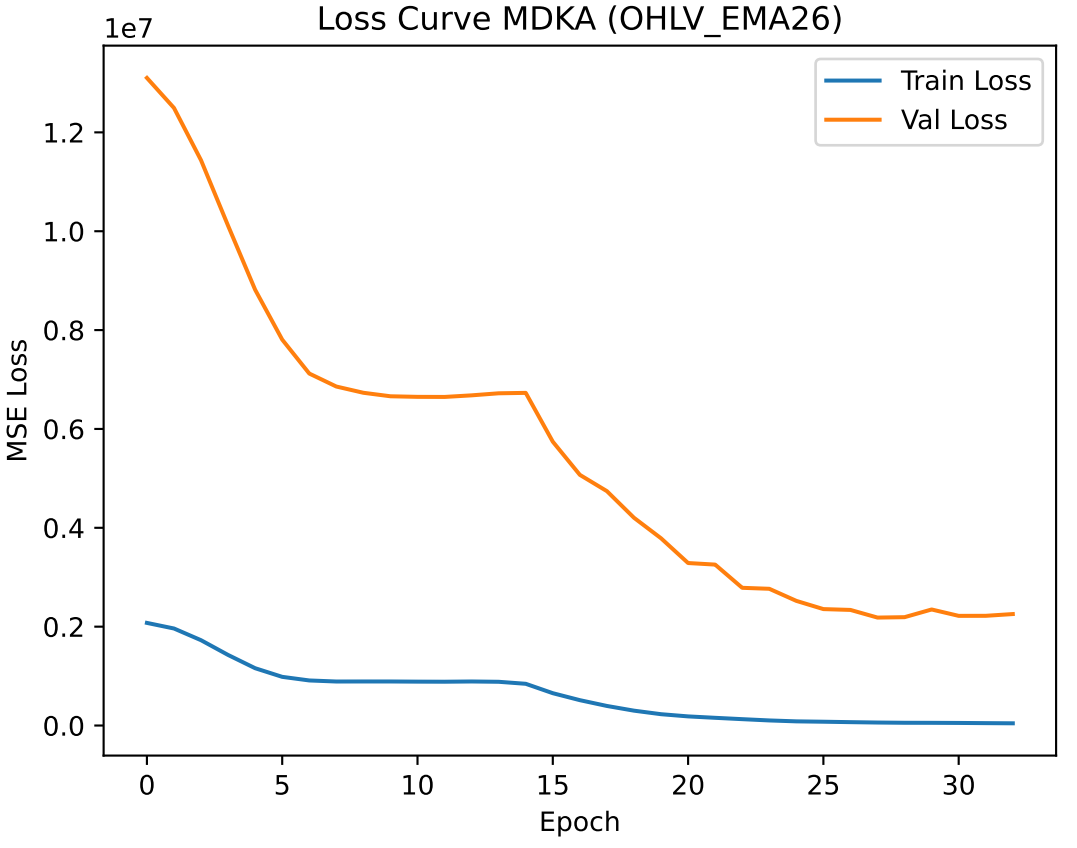

Loss Curve JSMR (OHLV_EMA26)
1e7
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
5
10
15
20
25
Epoch
Train Loss
Val Loss

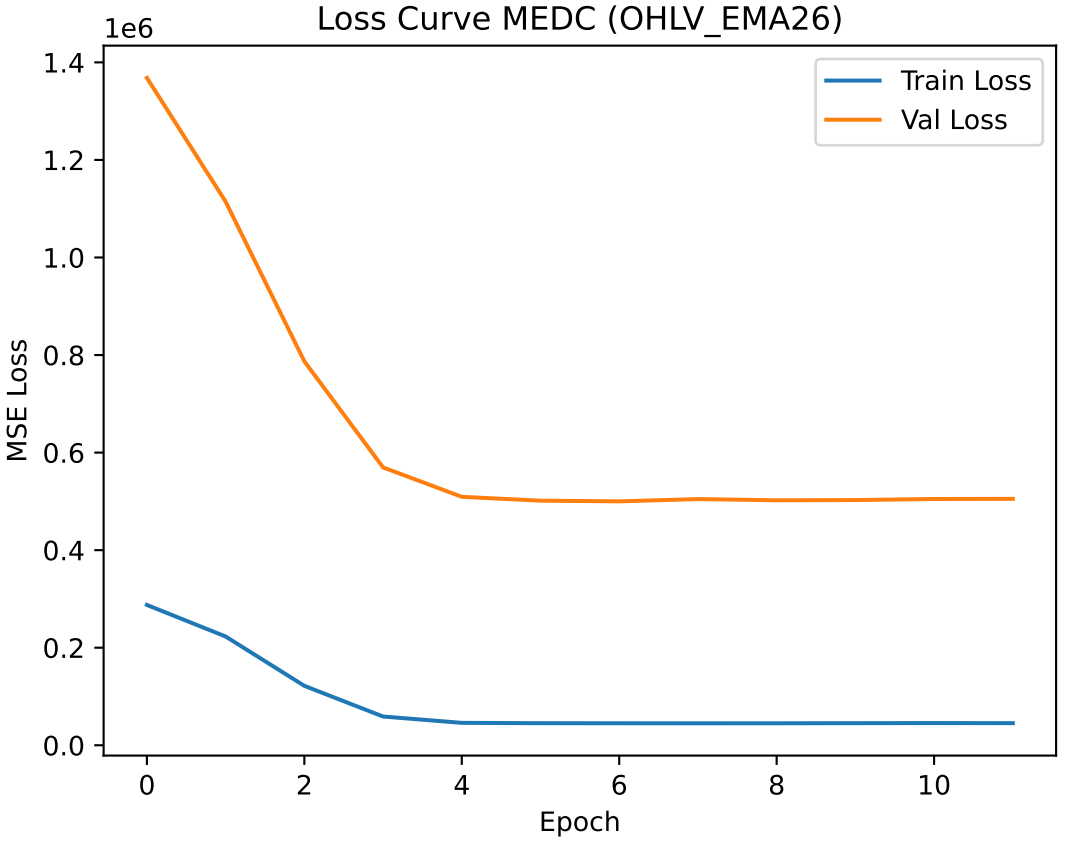

Loss Curve KLBF (OHLV_EMA26)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

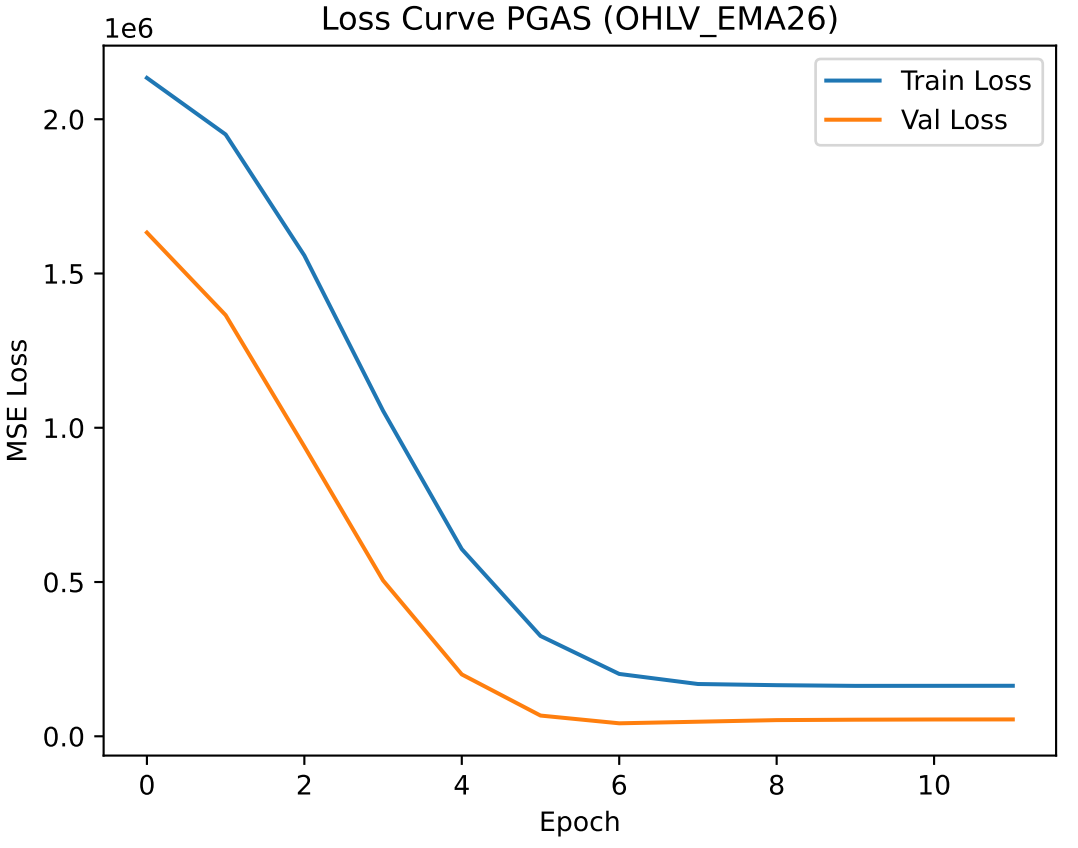

Loss Curve MAPA (OHLV_EMA26)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

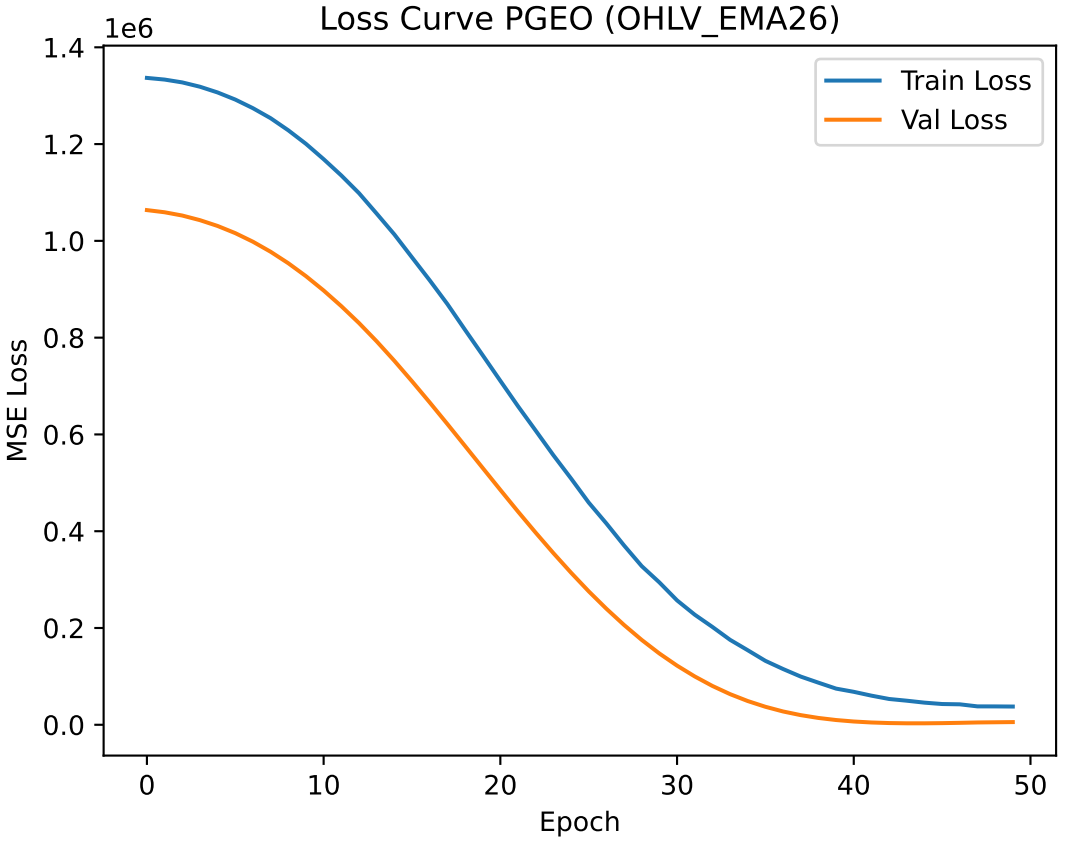

Loss Curve MAPI (OHLV_EMA26)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch

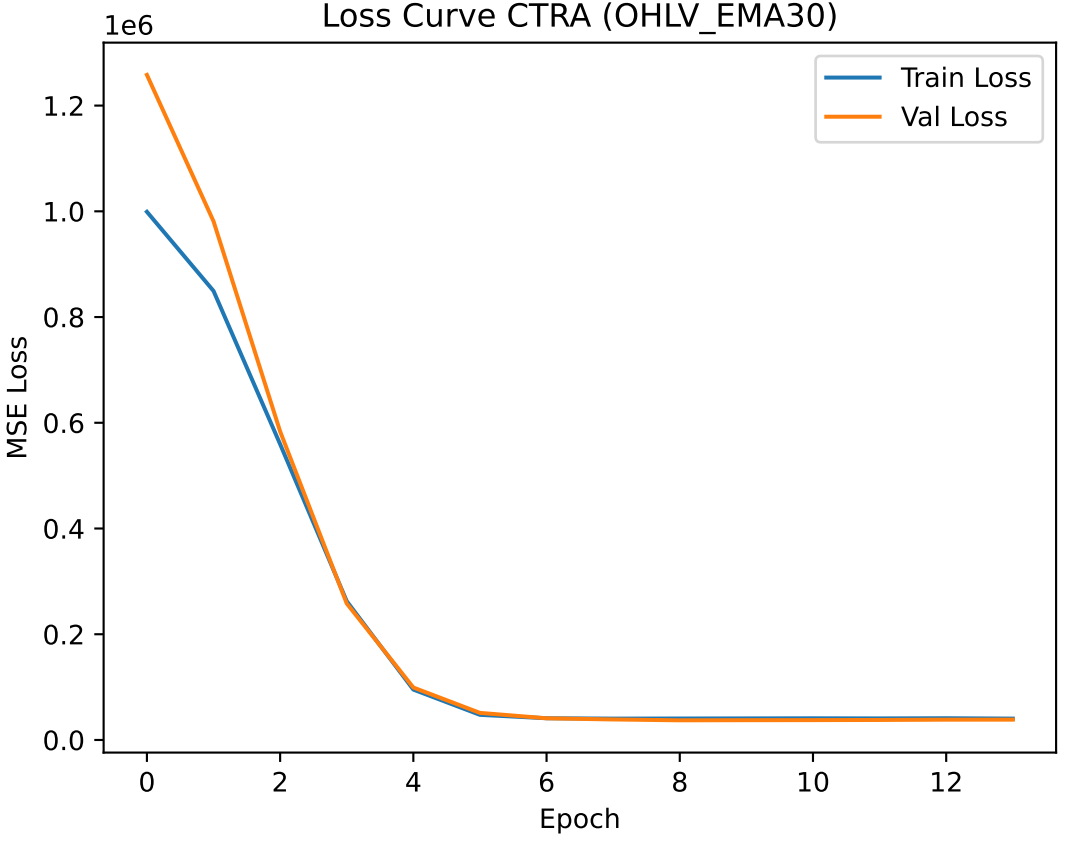

Loss Curve MBMA (OHLV_EMA26)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

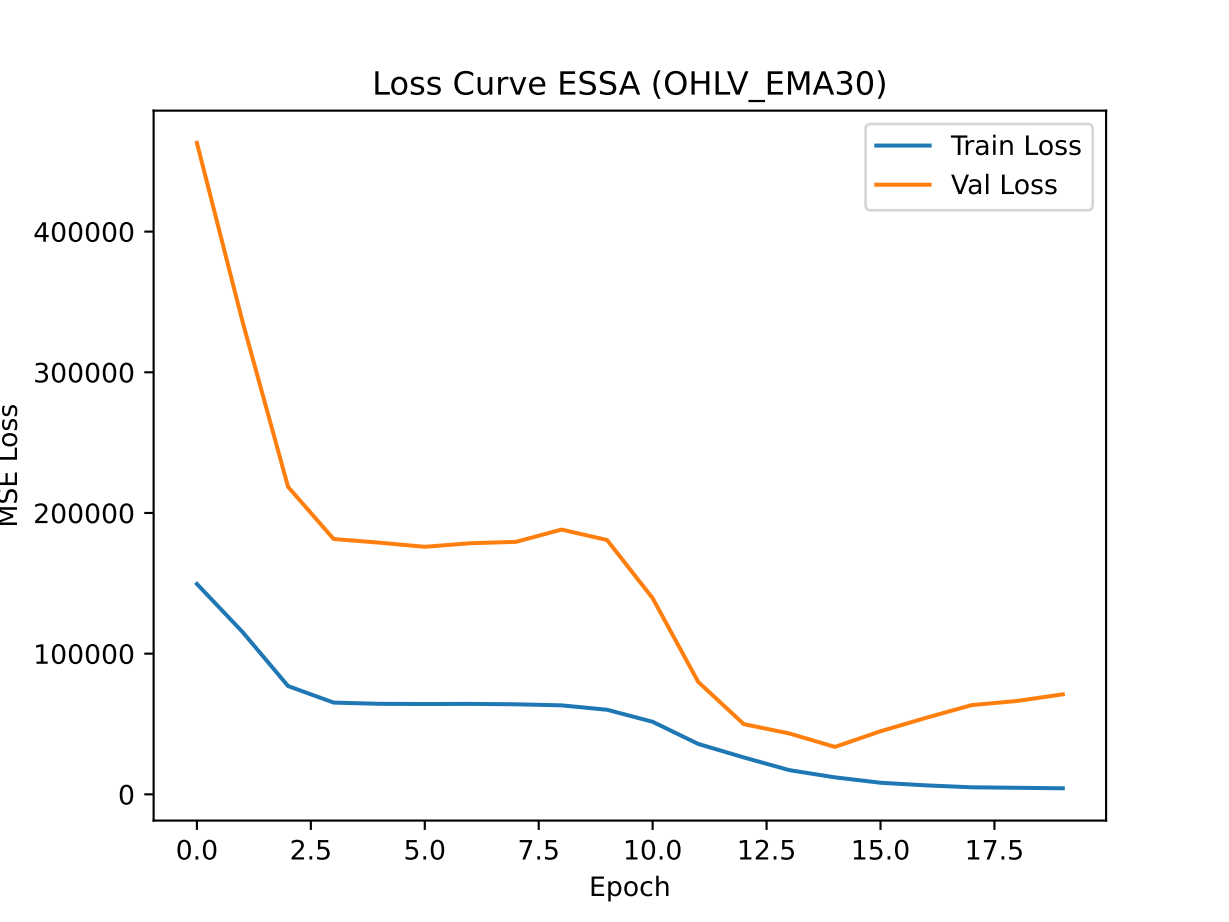

Loss Curve MDKA (OHLV_EMA26)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15
20
25
30

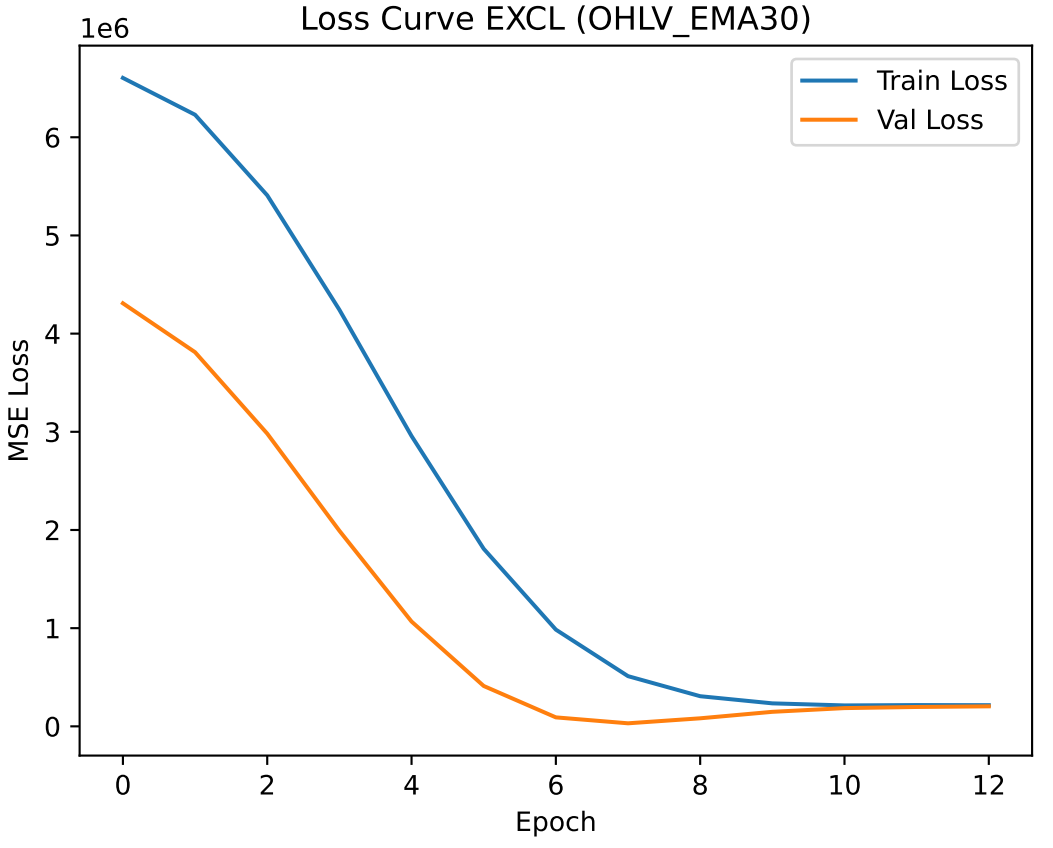

Loss Curve MEDC (OHLV_EMA26)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
Epoch

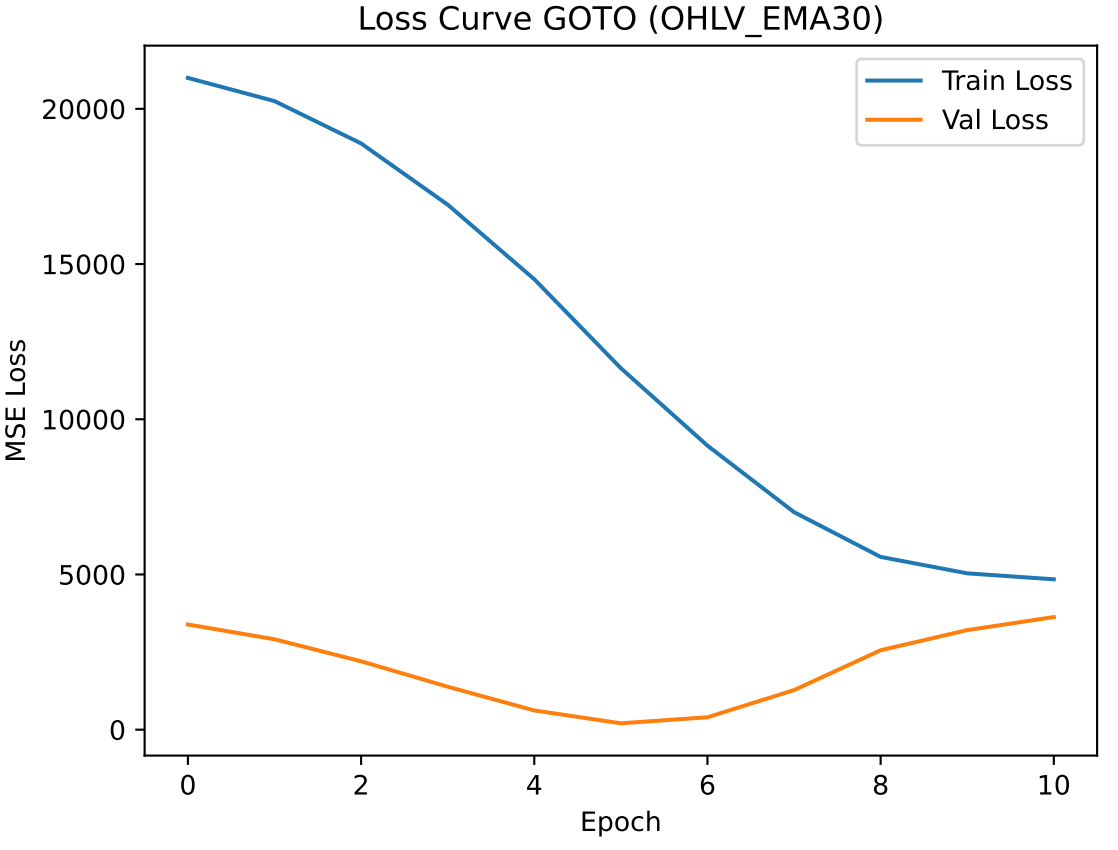

Loss Curve PGAS (OHLV_EMA26)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
Epoch
Train Loss
Val Loss

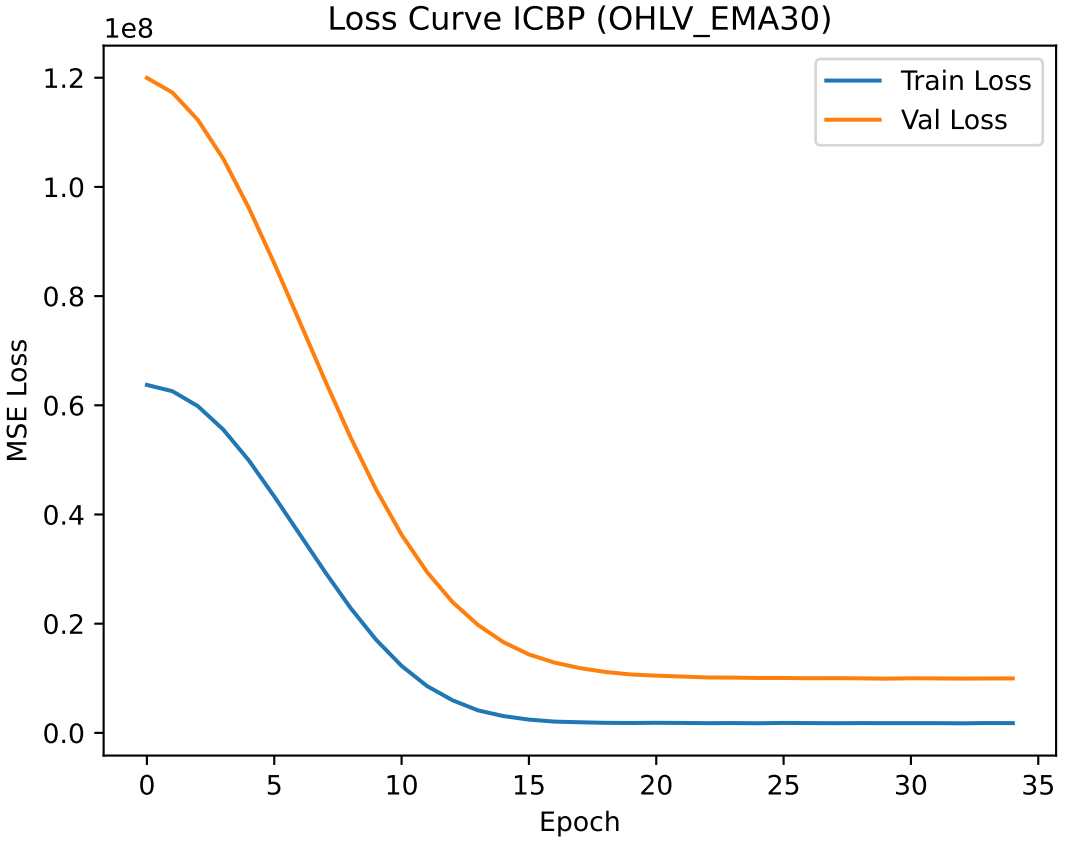

Loss Curve PGEO (OHLV_EMA26)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

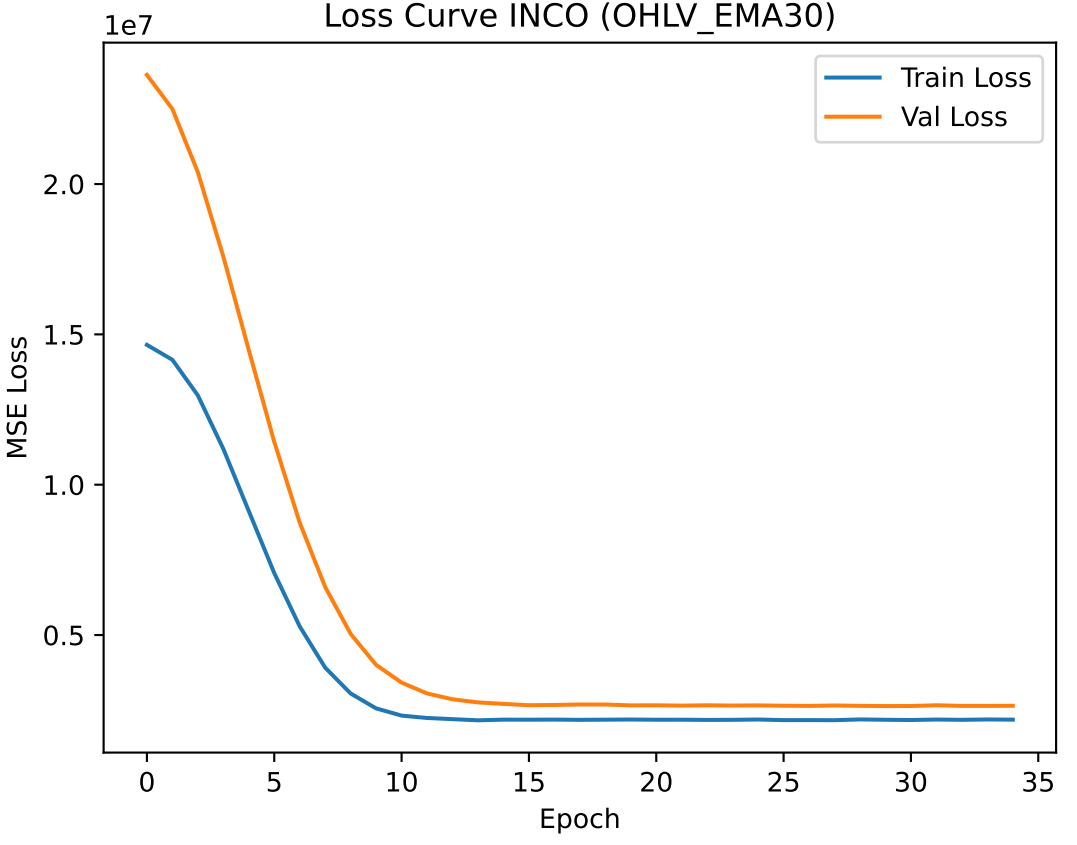

Loss Curve CTRA (OHLV_EMA30)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12

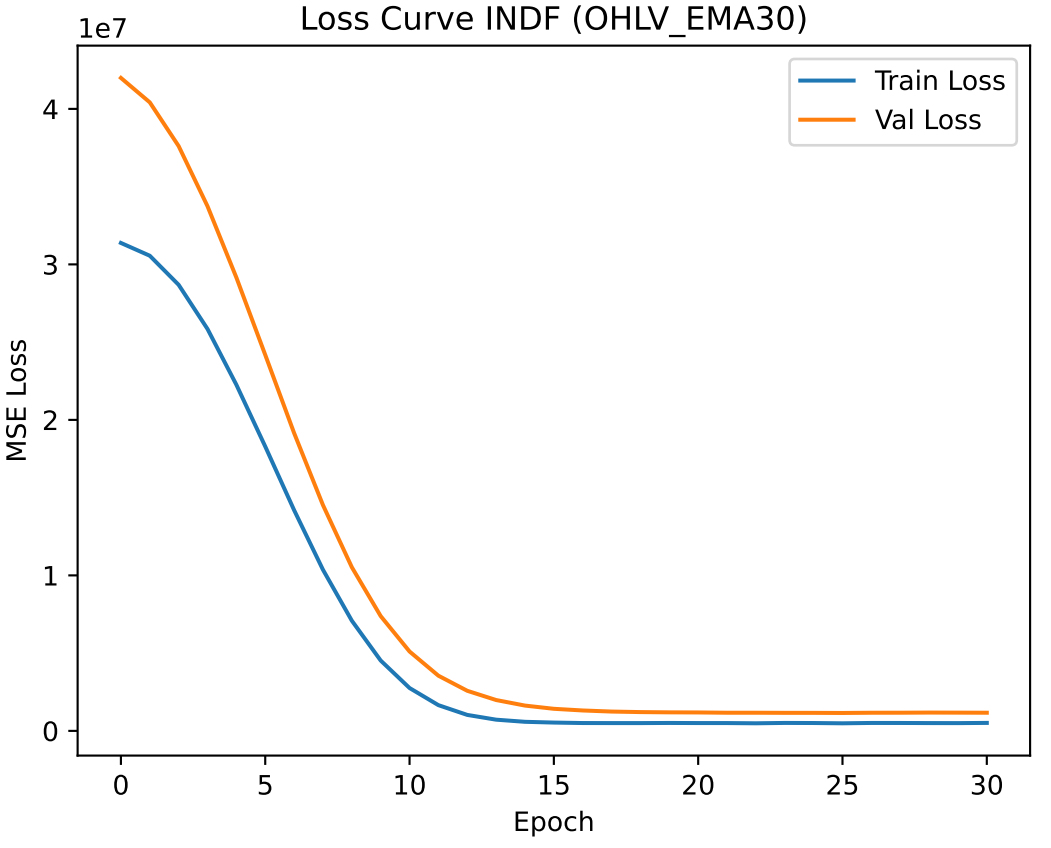

Loss Curve ESSA (OHLV_EMA30)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

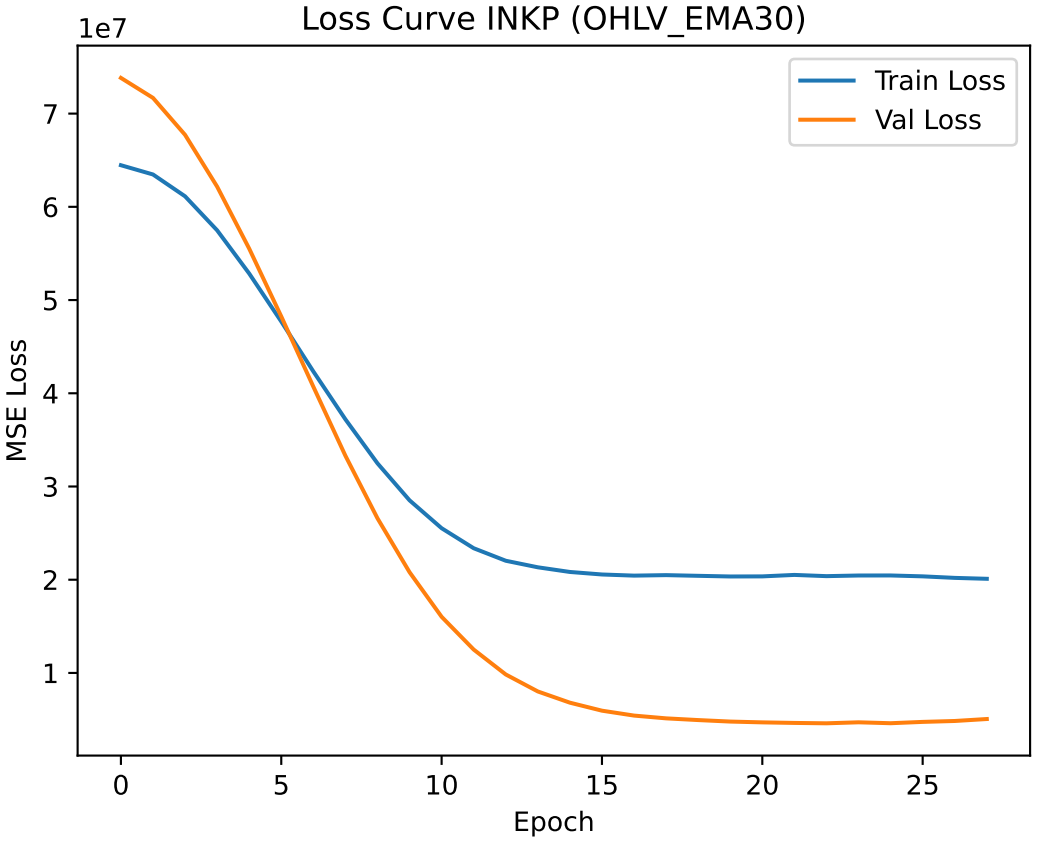

Loss Curve EXCL (OHLV_EMA30)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

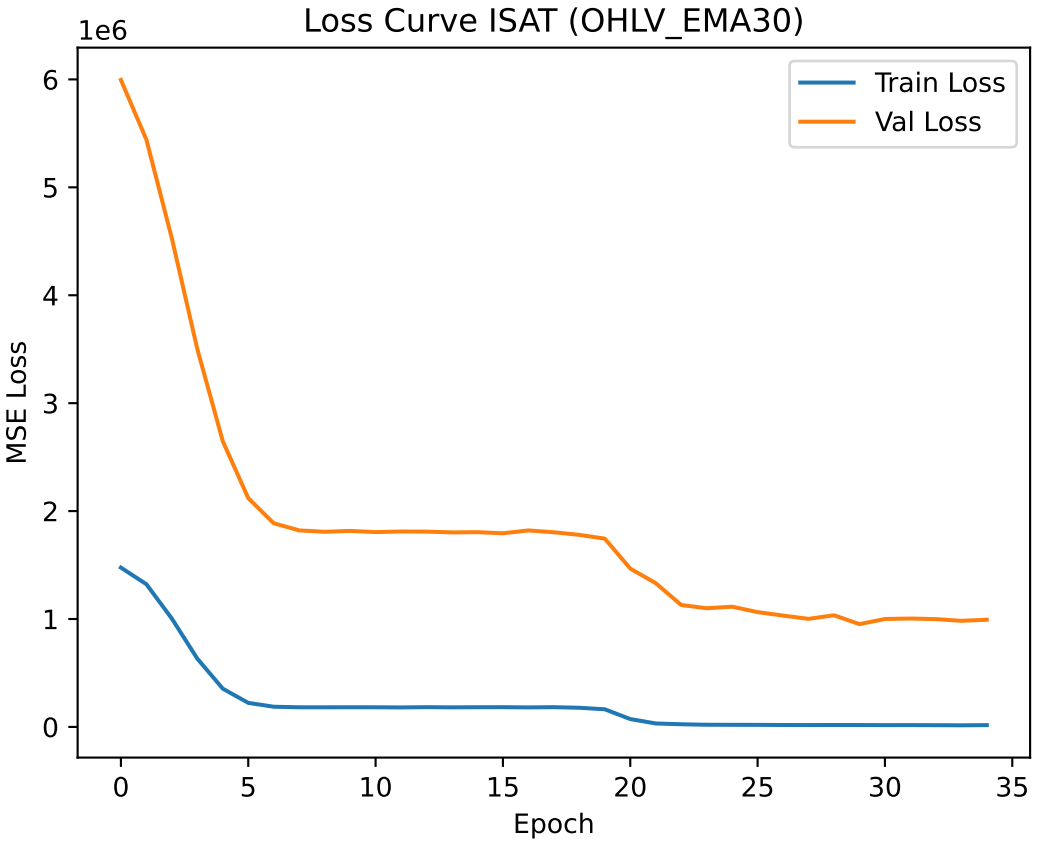

Loss Curve GOTO (OHLV_EMA30)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

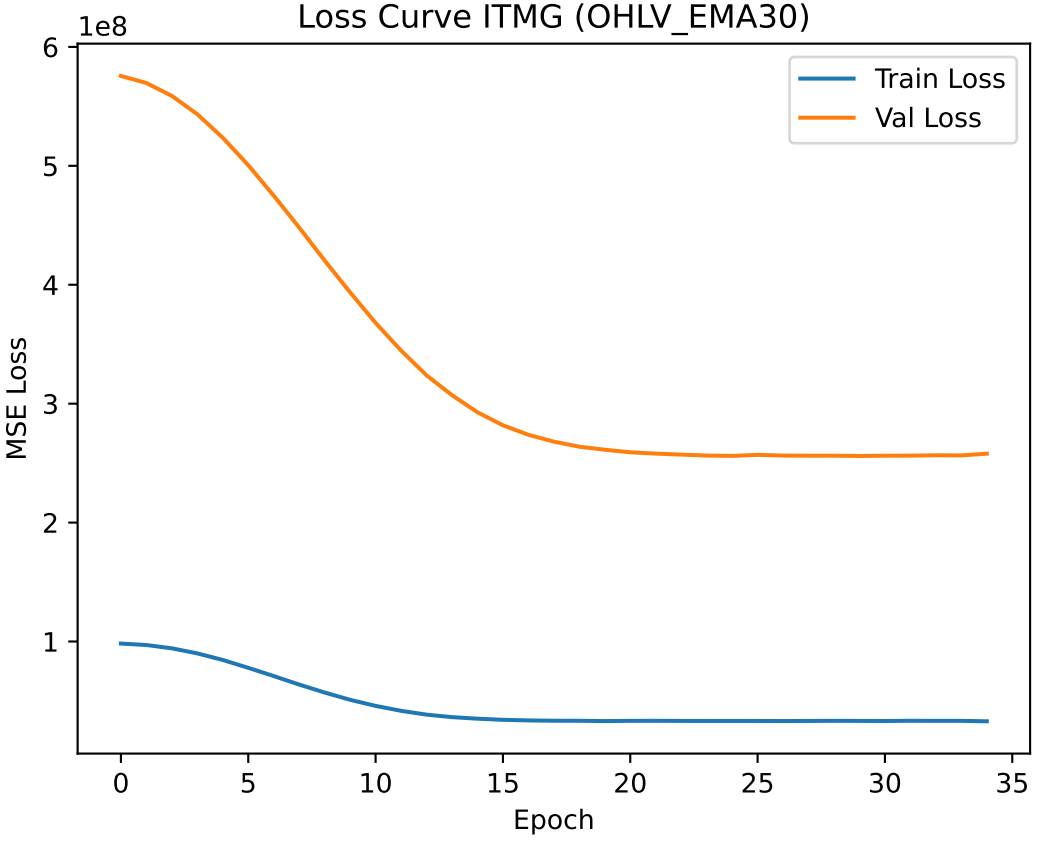

Loss Curve ICBP (OHLV_EMA30)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

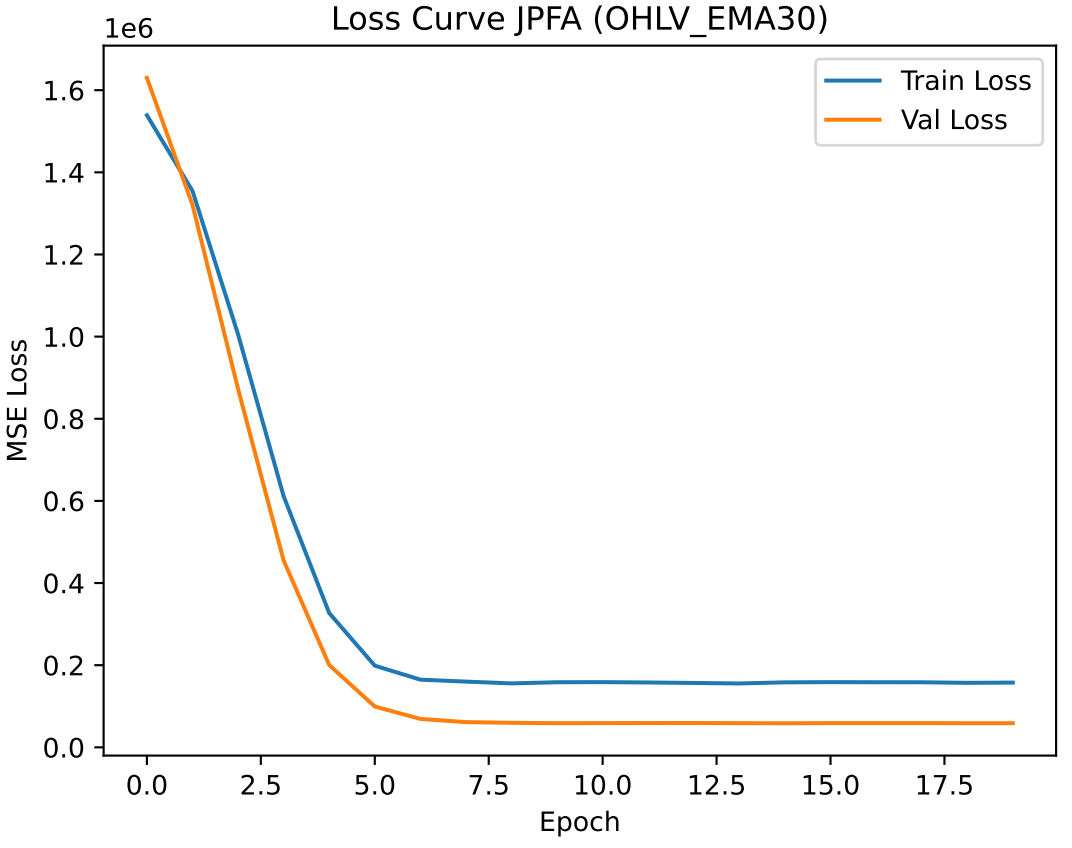

Loss Curve INCO (OHLV_EMA30)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0
5
10
15
20
25
30
35
Epoch

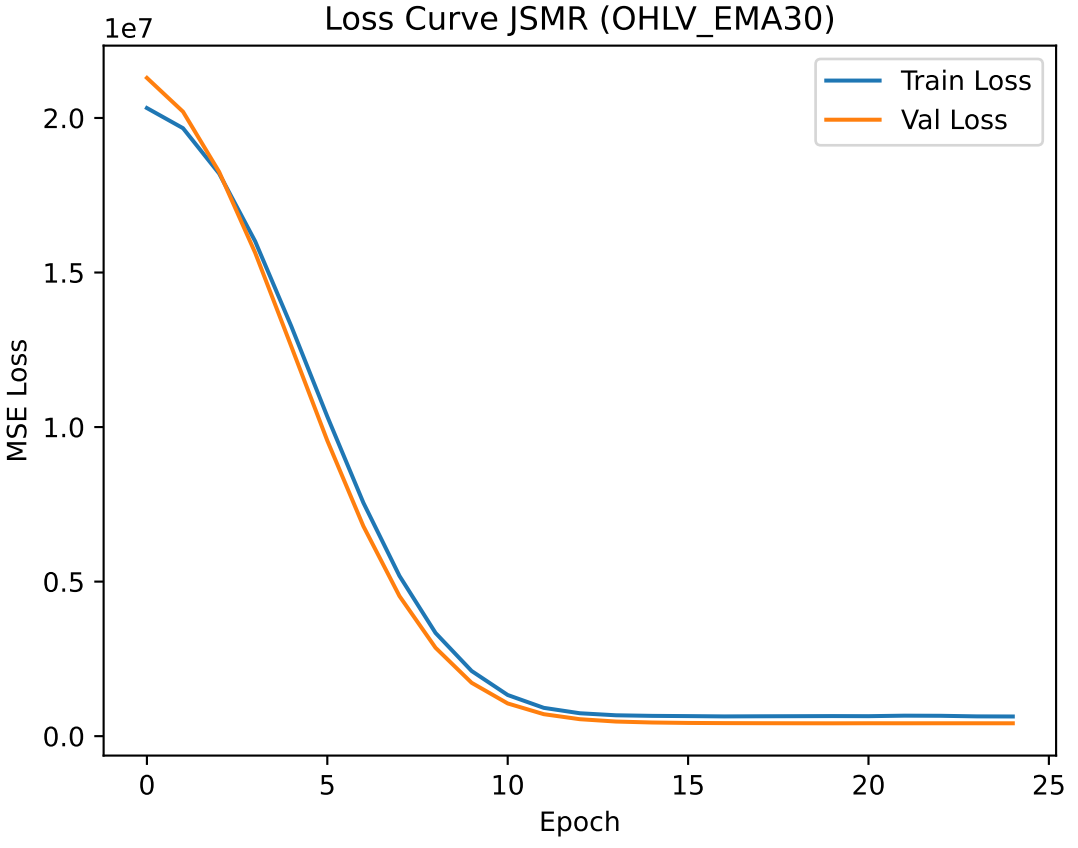

Loss Curve INDF (OHLV_EMA30)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30

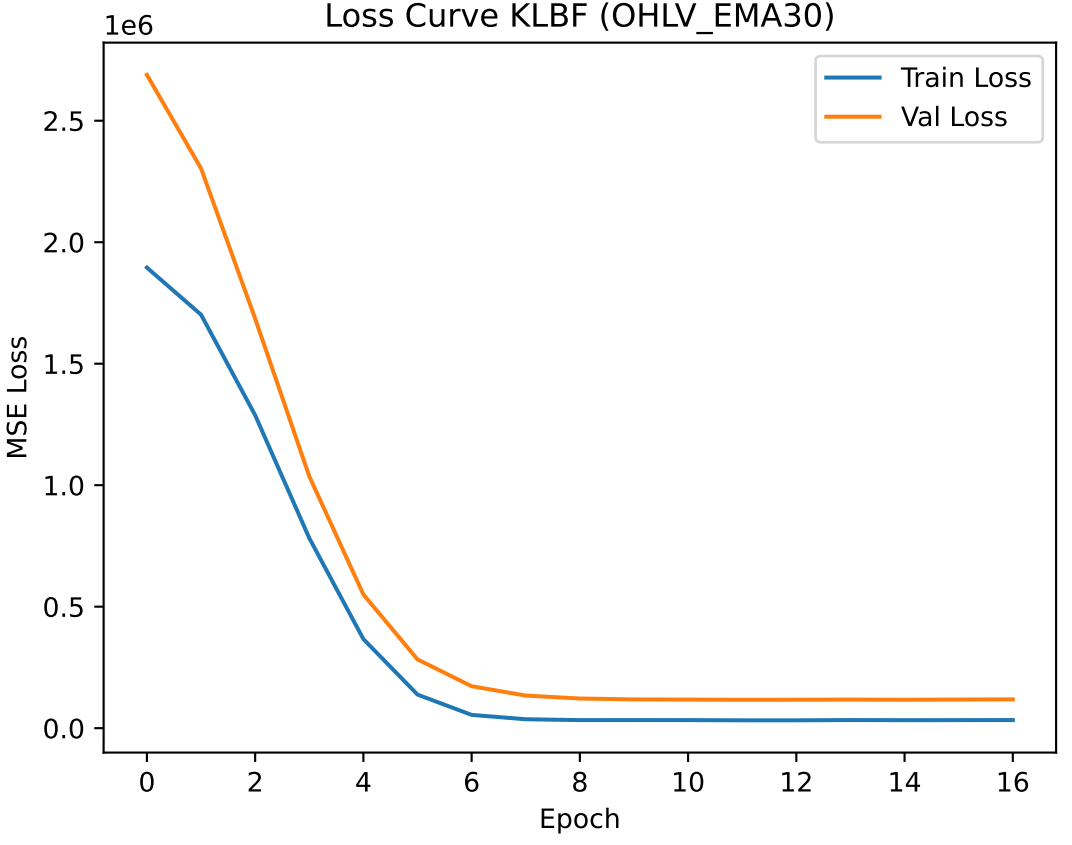

Loss Curve INKP (OHLV_EMA30)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
1
2
3
4
5
6
7

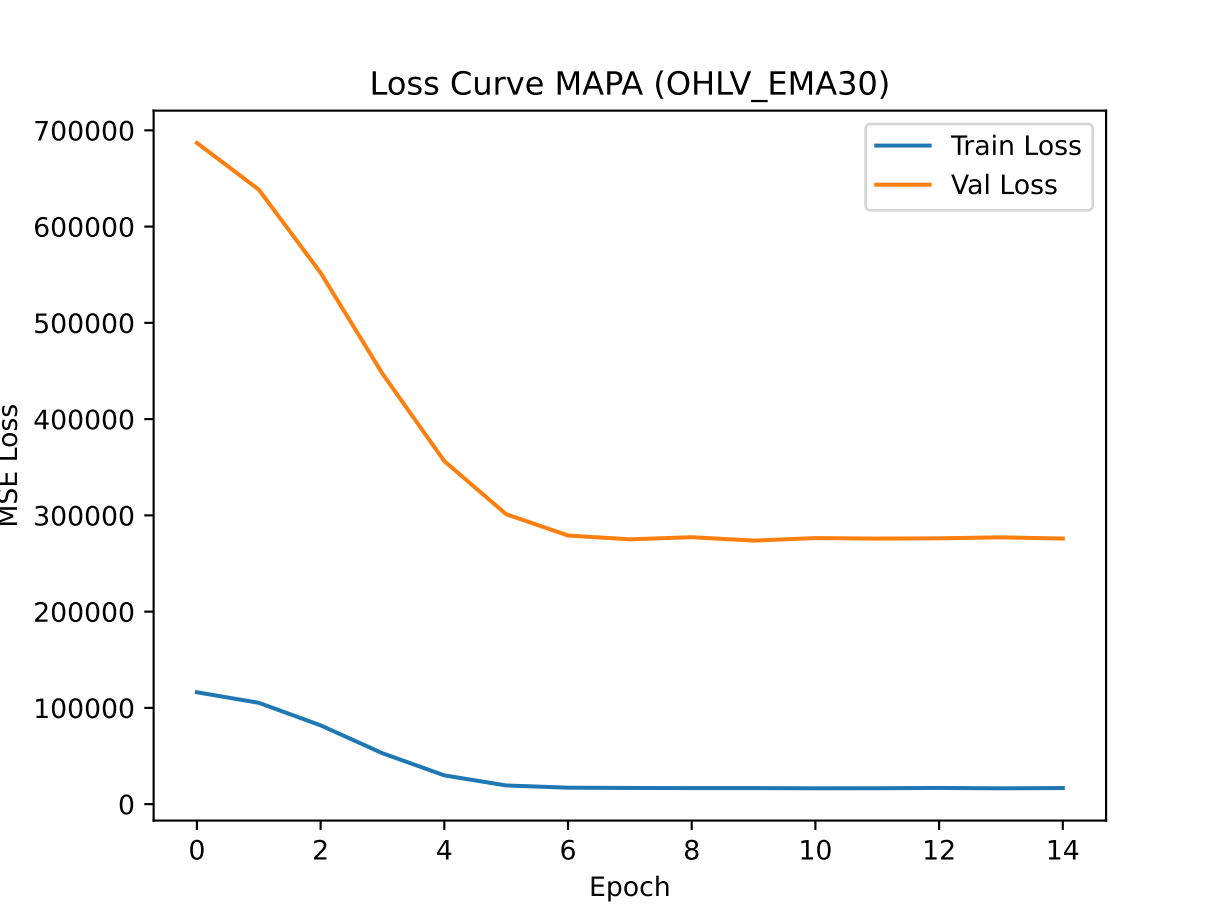

Loss Curve ISAT (OHLV_EMA30)
1e6
6
5
4
3
2
1
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch
Train Loss
Val Loss

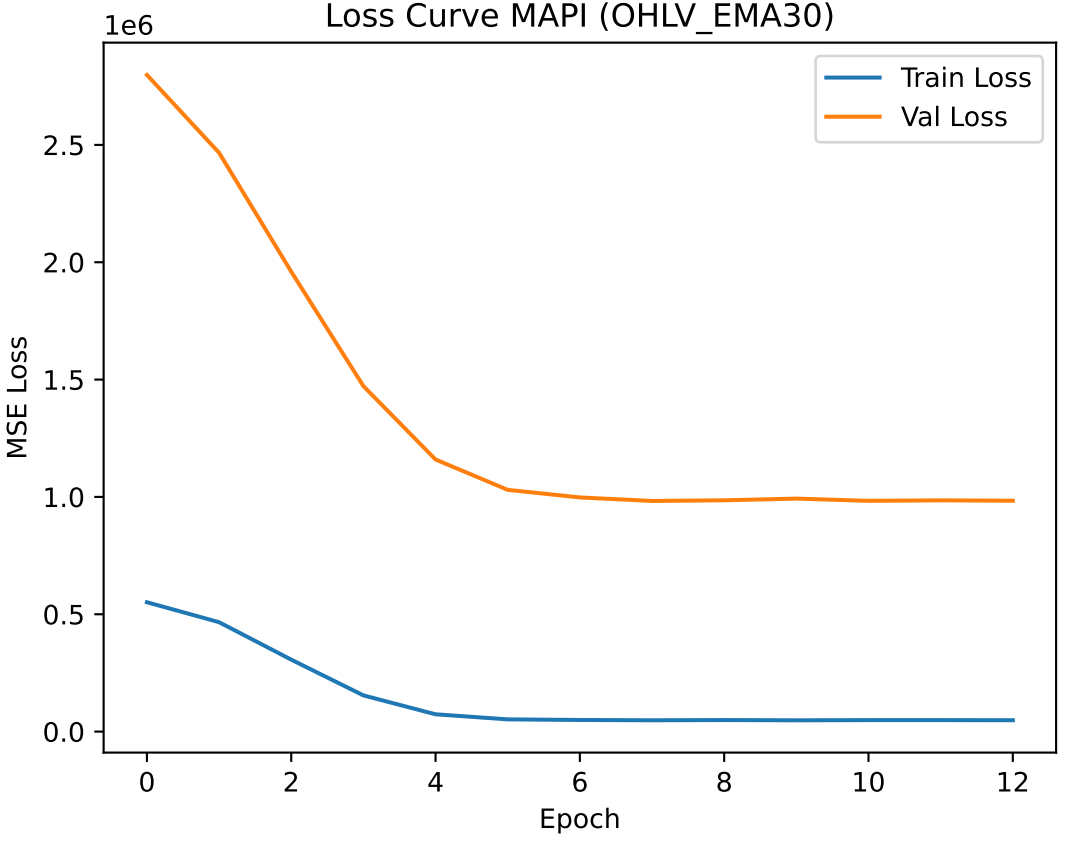

Loss Curve ITMG (OHLV_EMA30)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

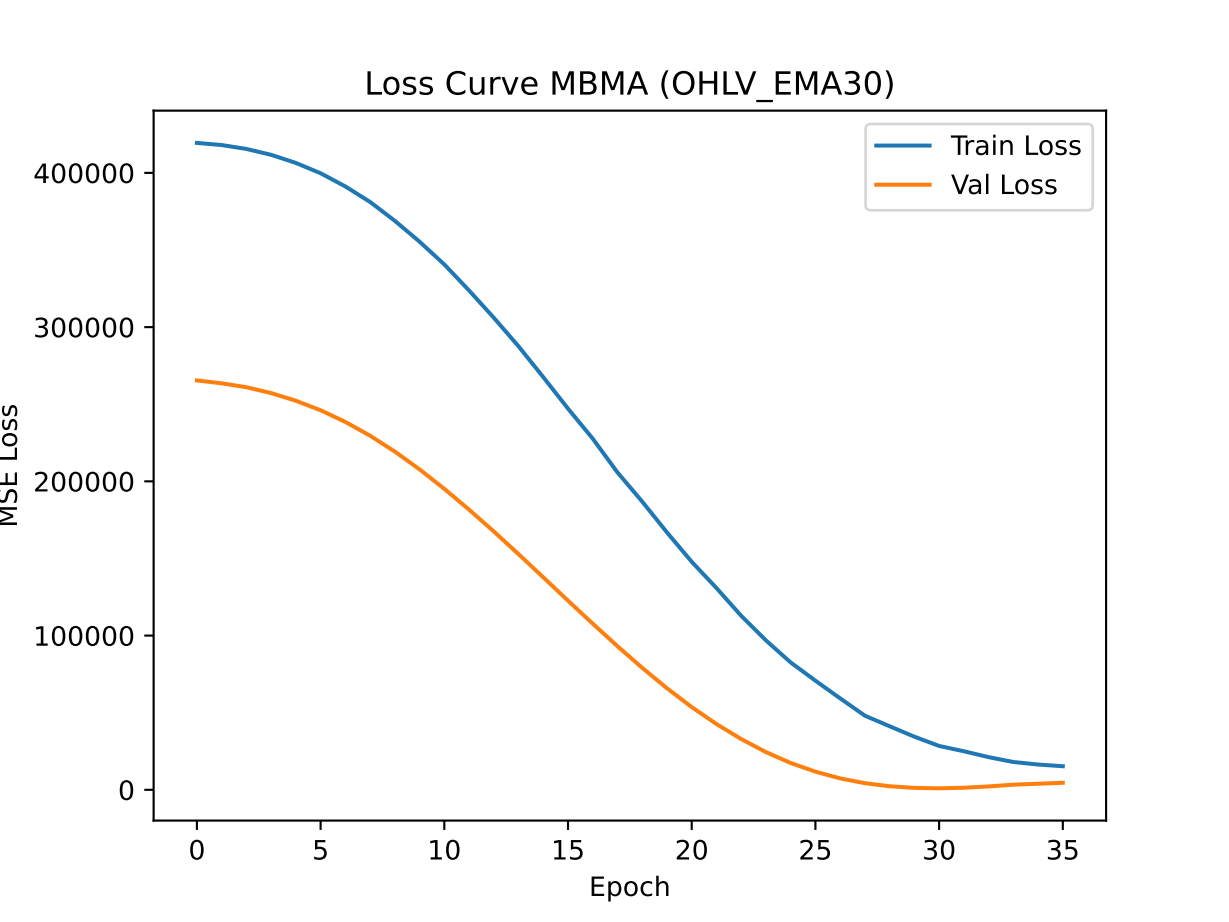

Loss Curve JPFA (OHLV_EMA30)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

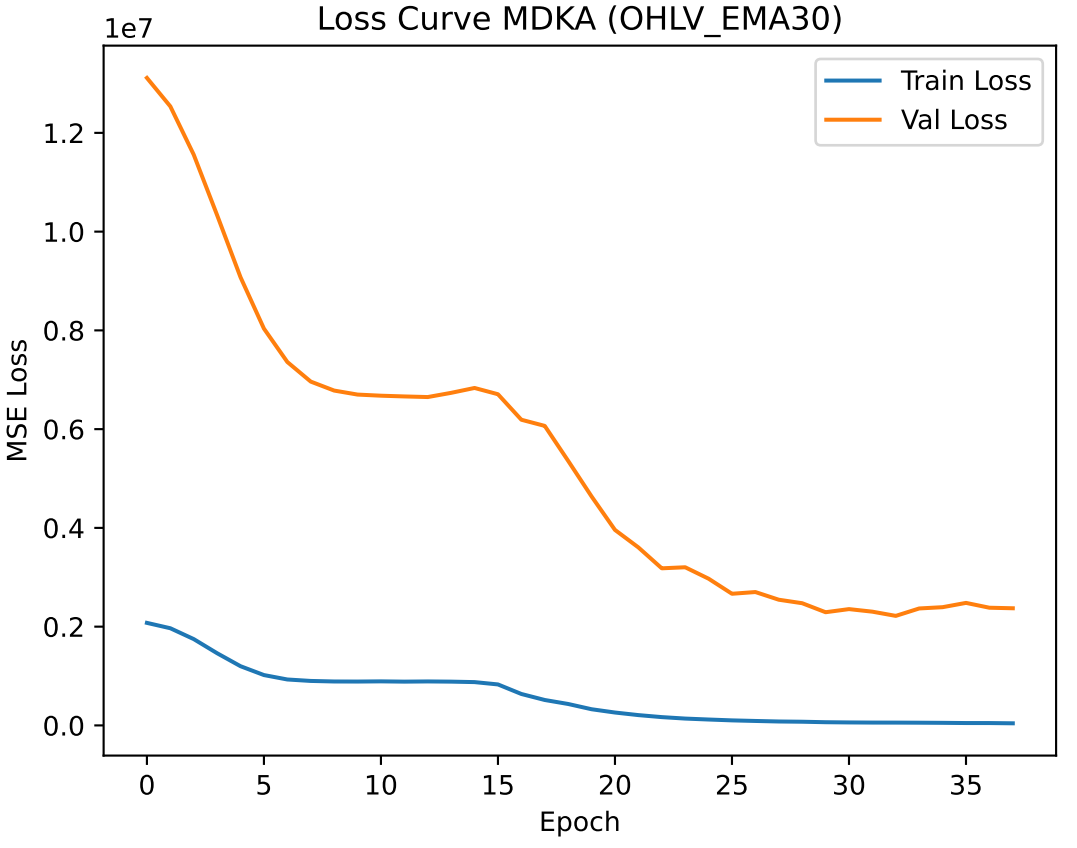

Loss Curve JSMR (OHLV_EMA30)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

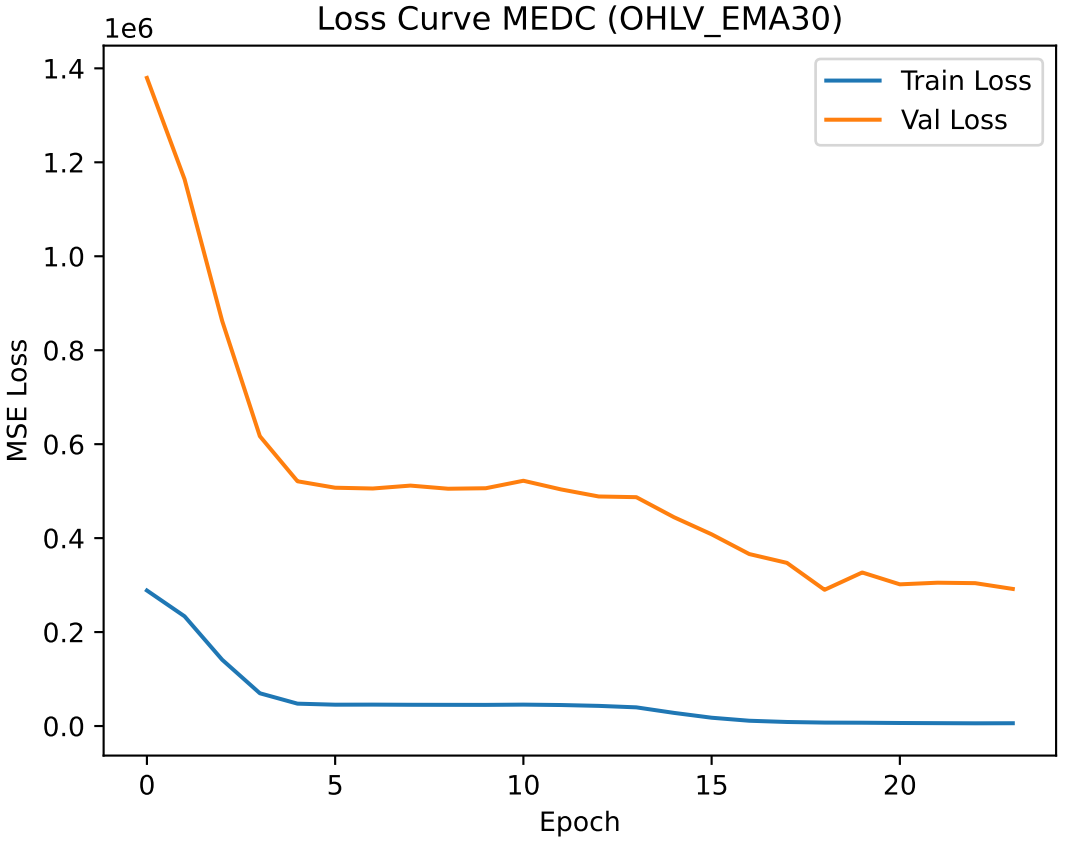

Loss Curve KLBF (OHLV_EMA30)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
16
Epoch

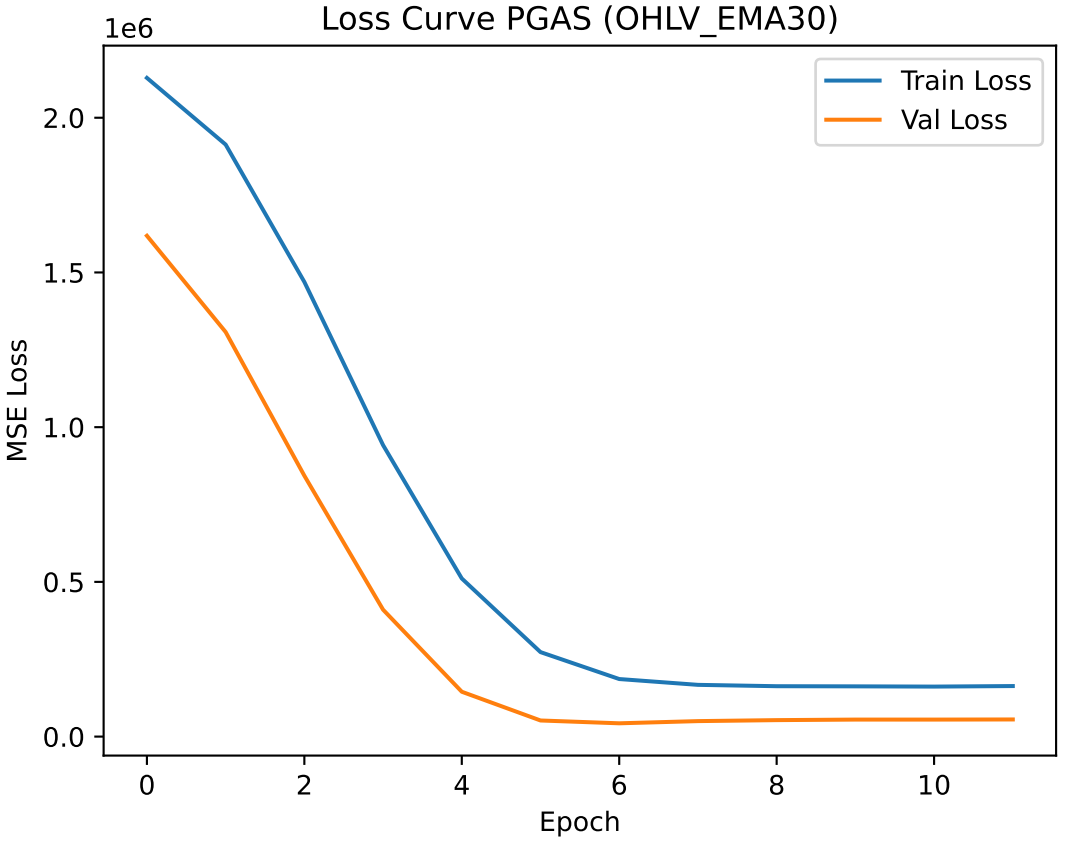

Loss Curve MAPA (OHLV_EMA30)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14

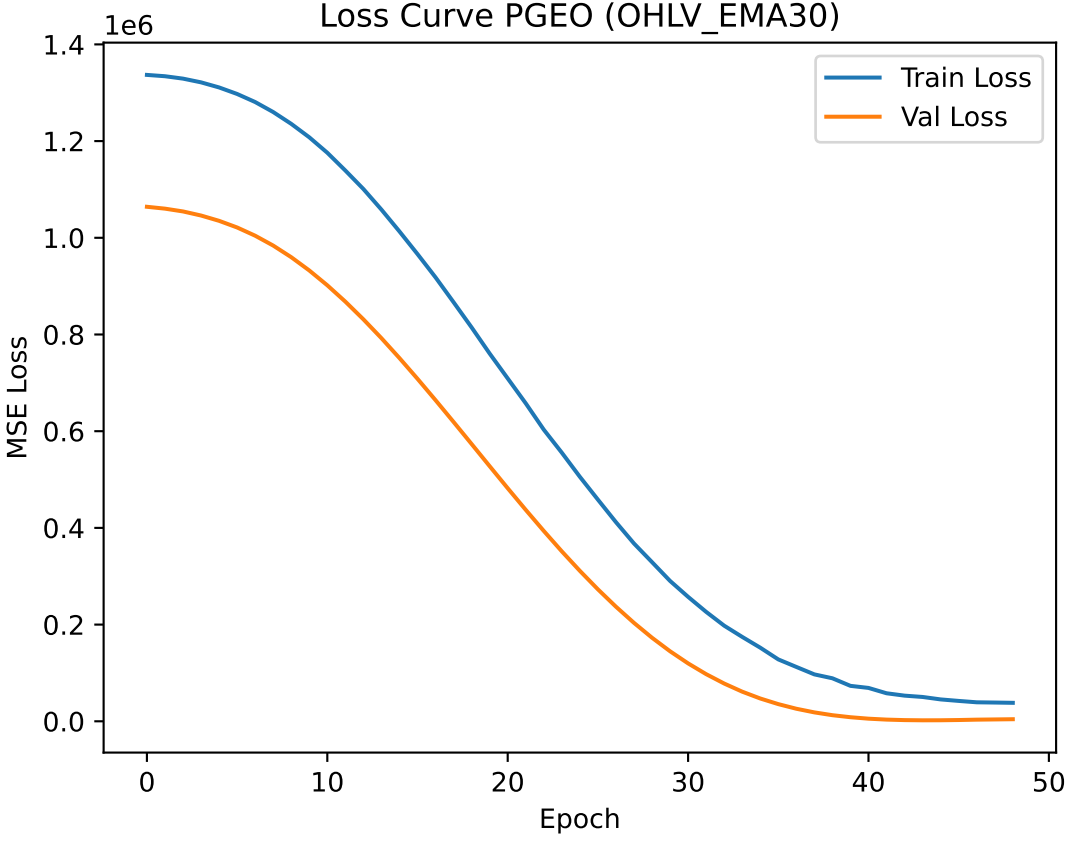

Loss Curve MAPI (OHLV_EMA30)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch

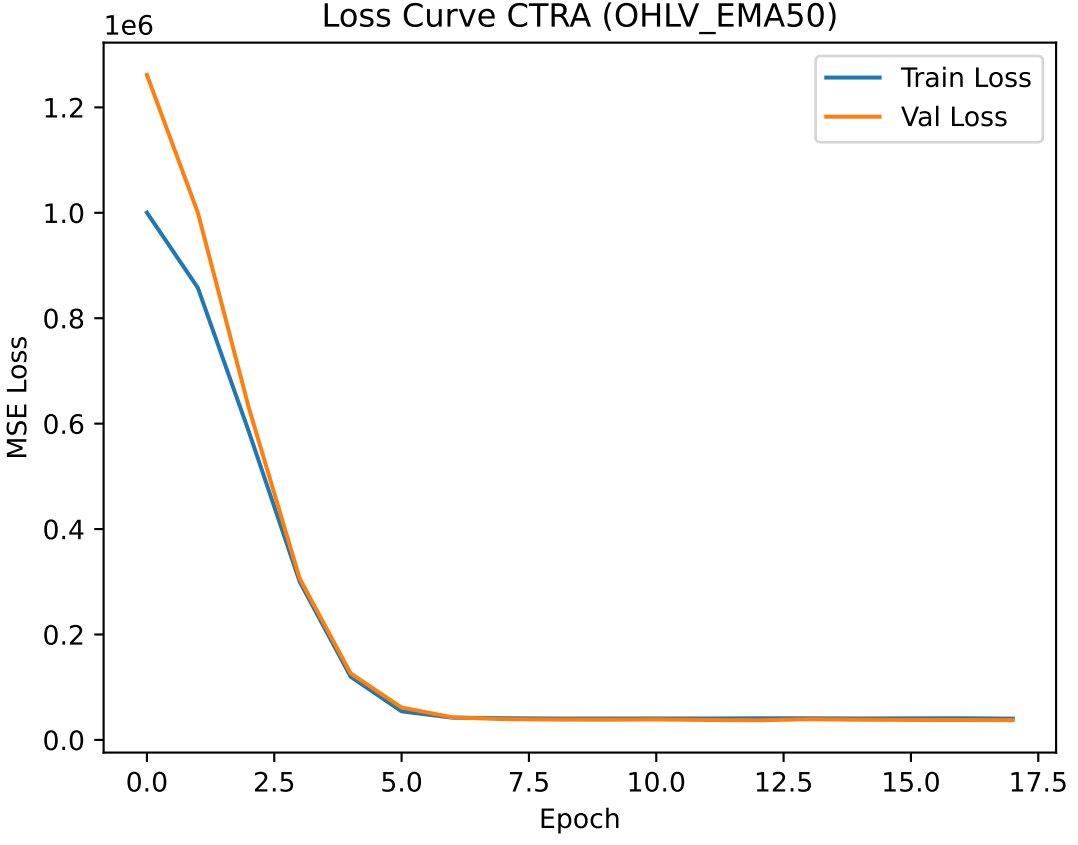

Loss Curve MBMA (OHLV_EMA30)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

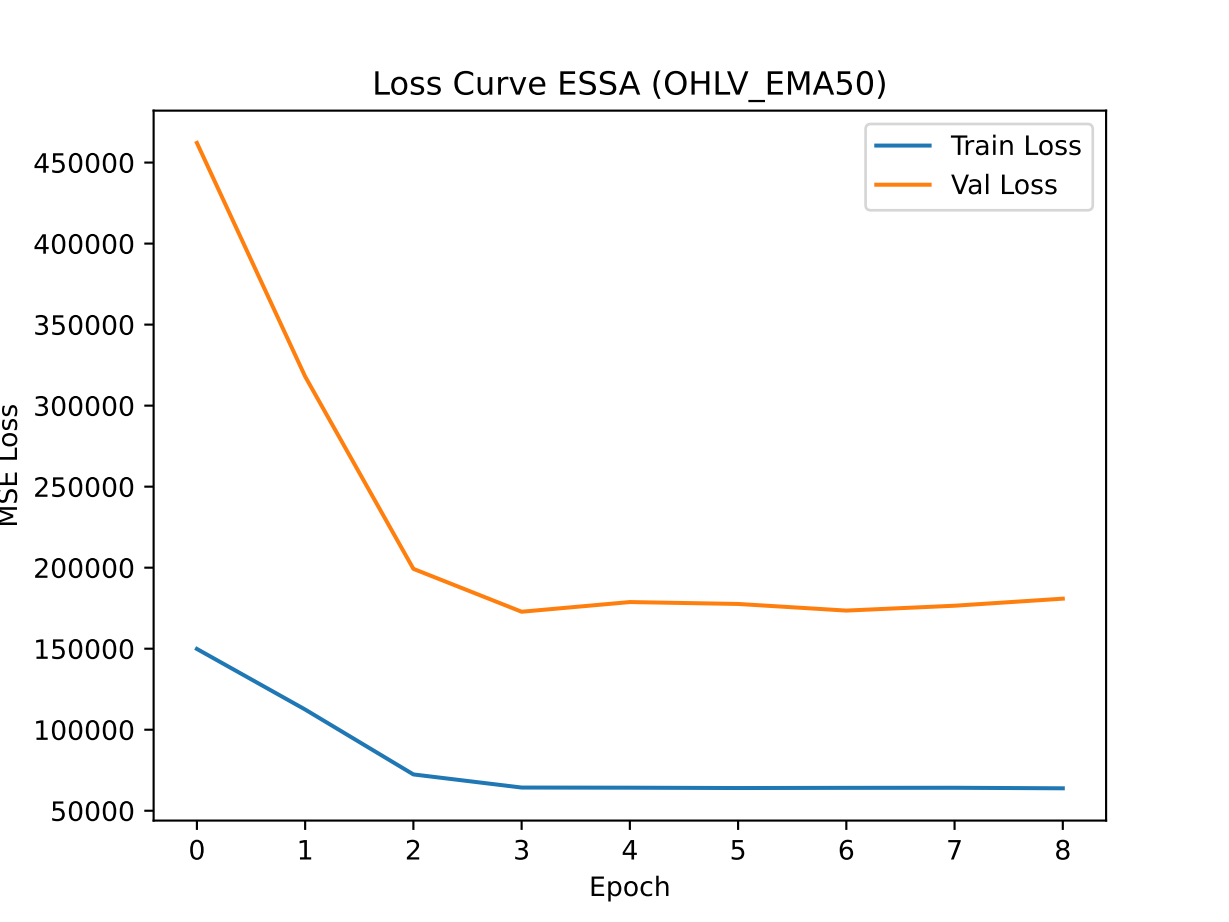

Loss Curve MDKA (OHLV_EMA30)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
25
30
35
Epoch

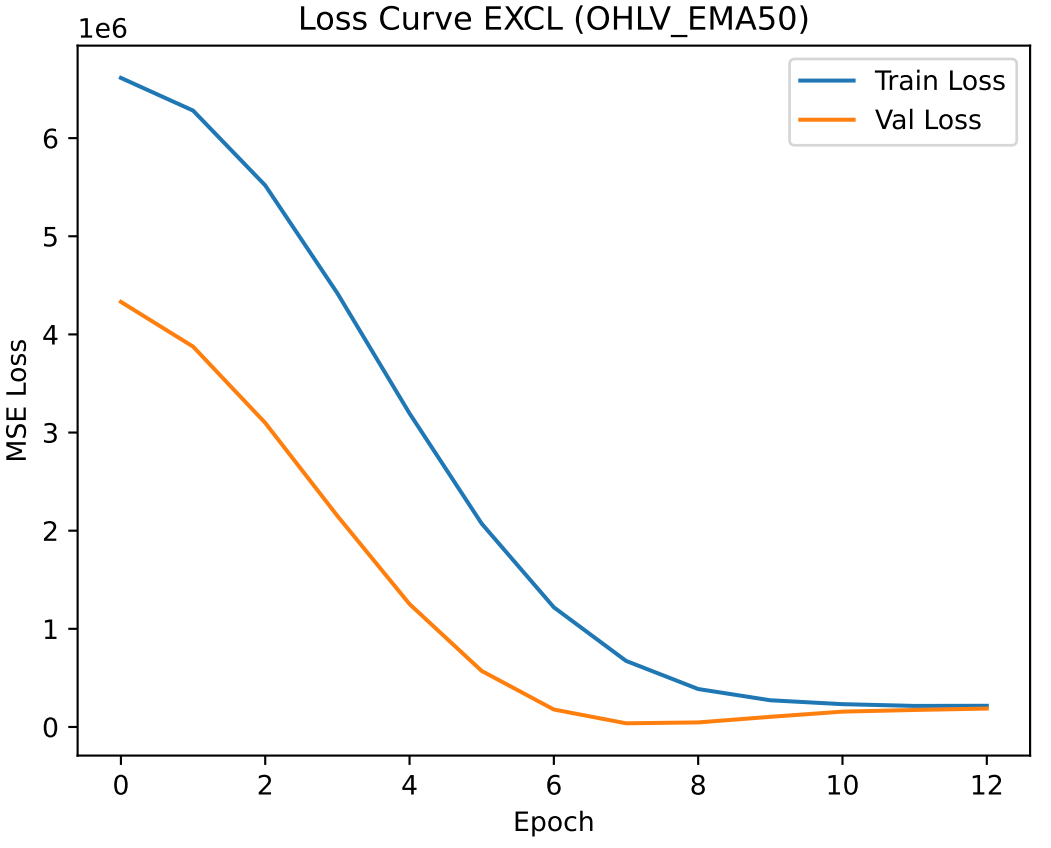

Loss Curve MEDC (OHLV_EMA30)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
Epoch

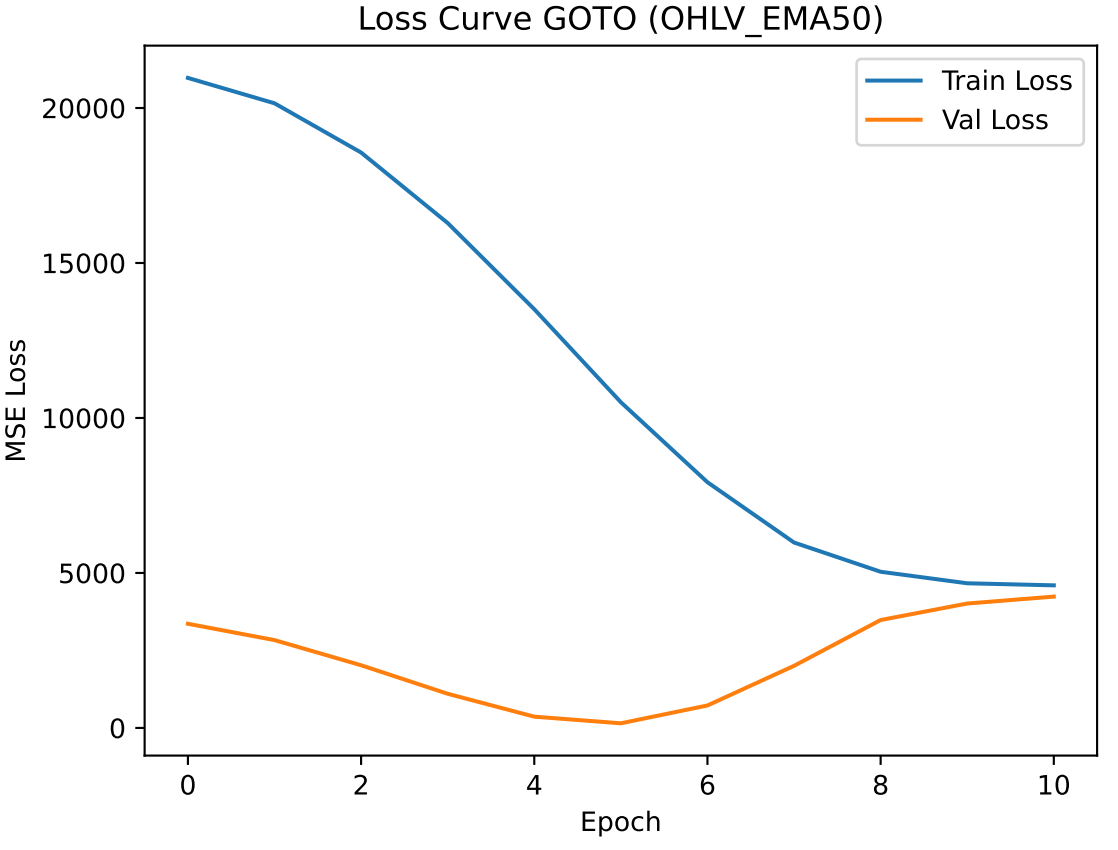

Loss Curve PGAS (OHLV_EMA30)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
Epoch
Train Loss
Val Loss

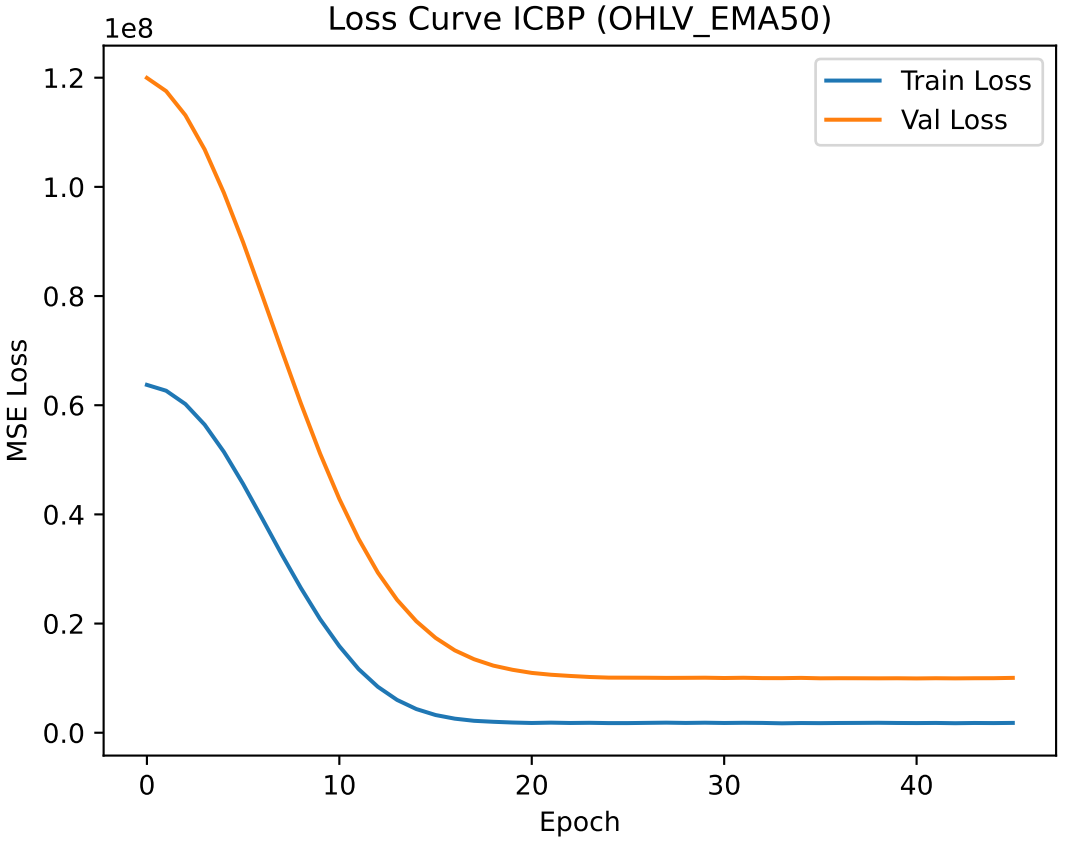

Loss Curve PGEO (OHLV_EMA30)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

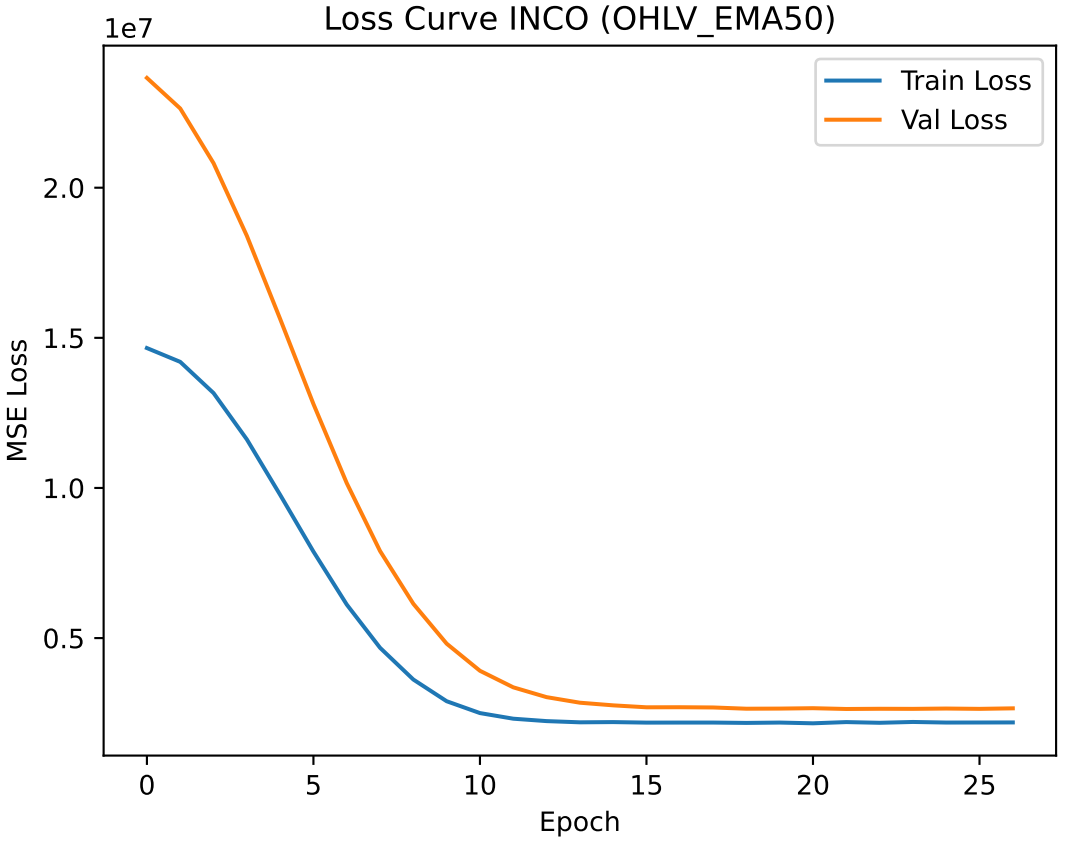

Loss Curve CTRA (OHLV_EMA50)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

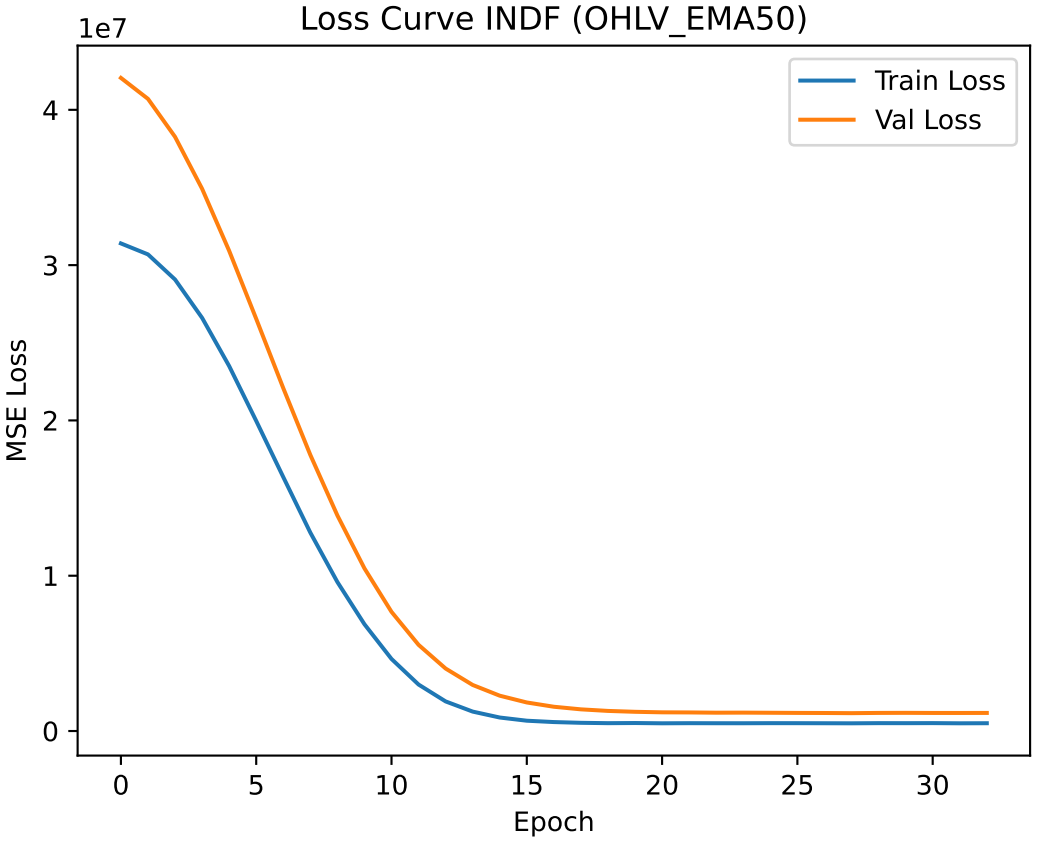

Loss Curve ESSA (OHLV_EMA50)
Train Loss
Val Loss
MSE Loss
Epoch
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
1
2
3
4
5
6
7
8

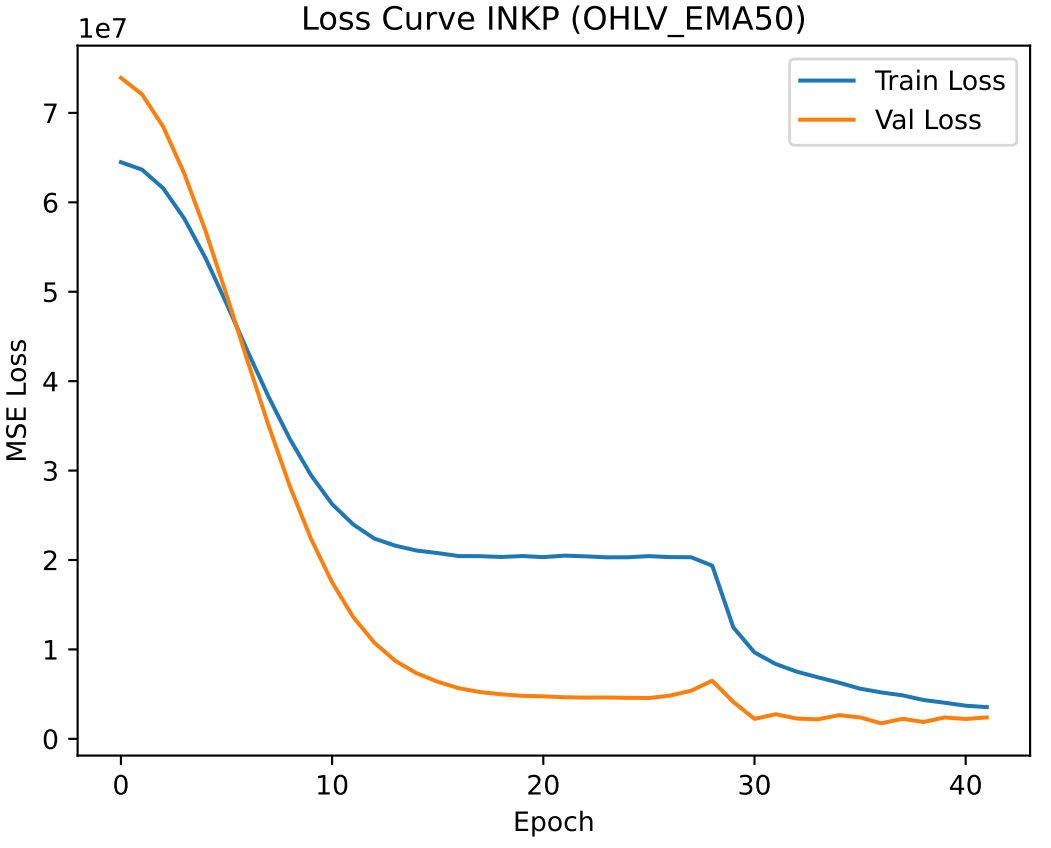

Loss Curve EXCL (OHLV_EMA50)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

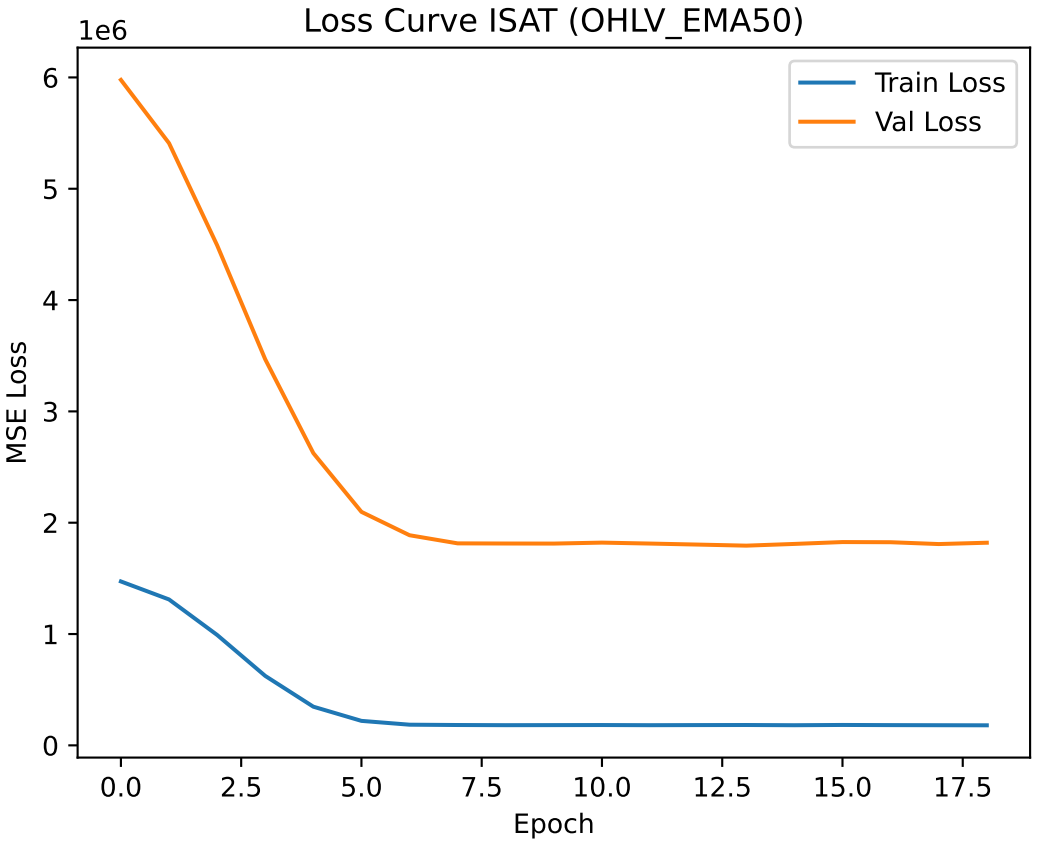

Loss Curve GOTO (OHLV_EMA50)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

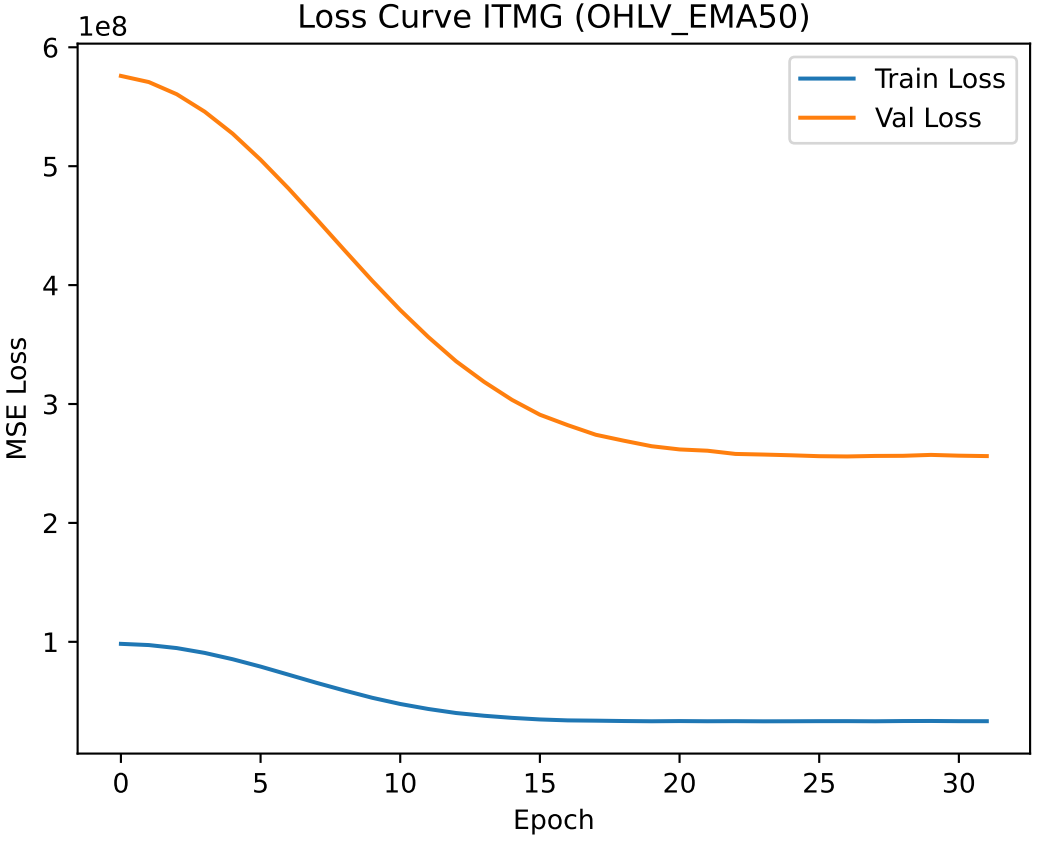

Loss Curve ICBP (OHLV_EMA50)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
Epoch

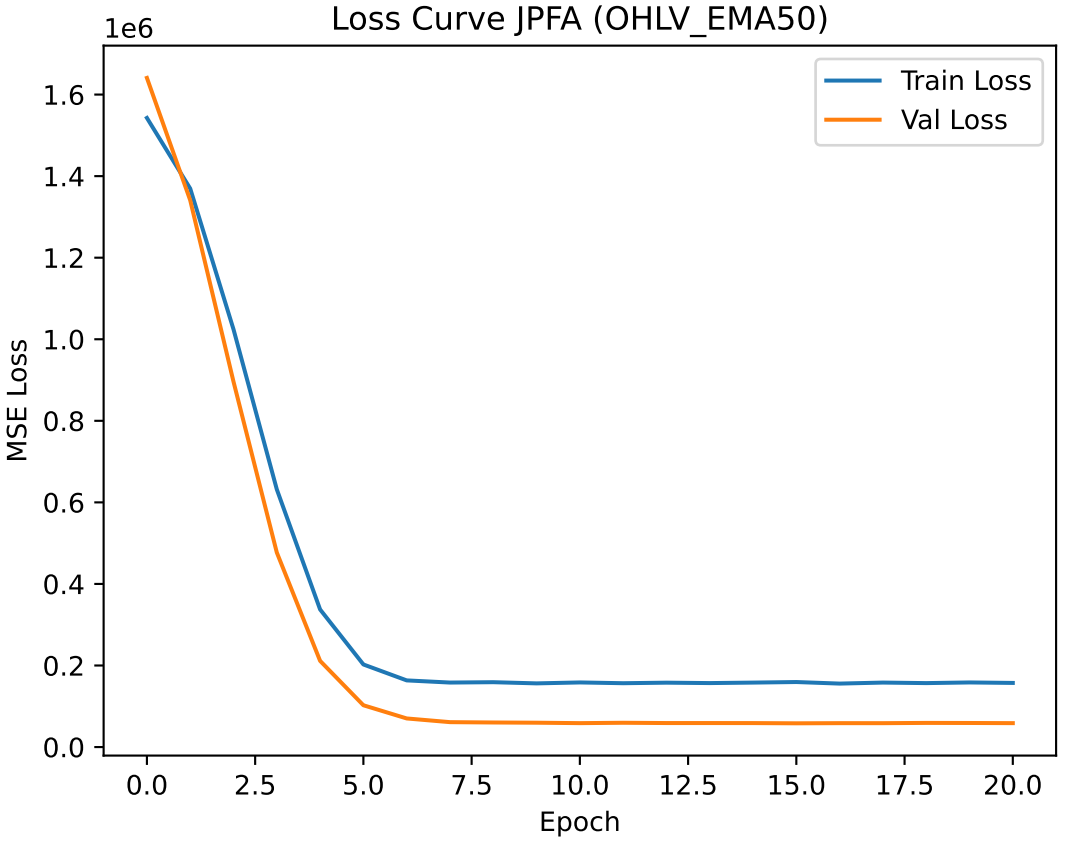

Loss Curve INCO (OHLV_EMA50)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0
5
10
15
20
25
Epoch

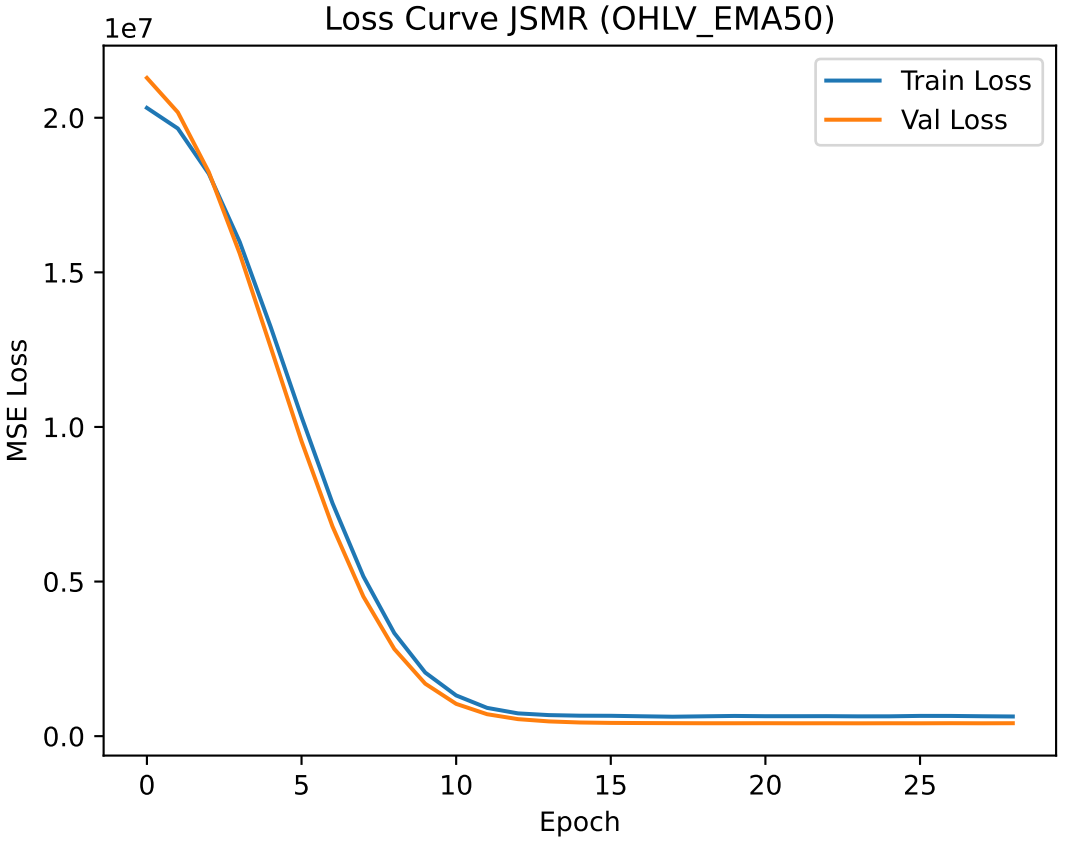

Loss Curve INDF (OHLV_EMA50)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30

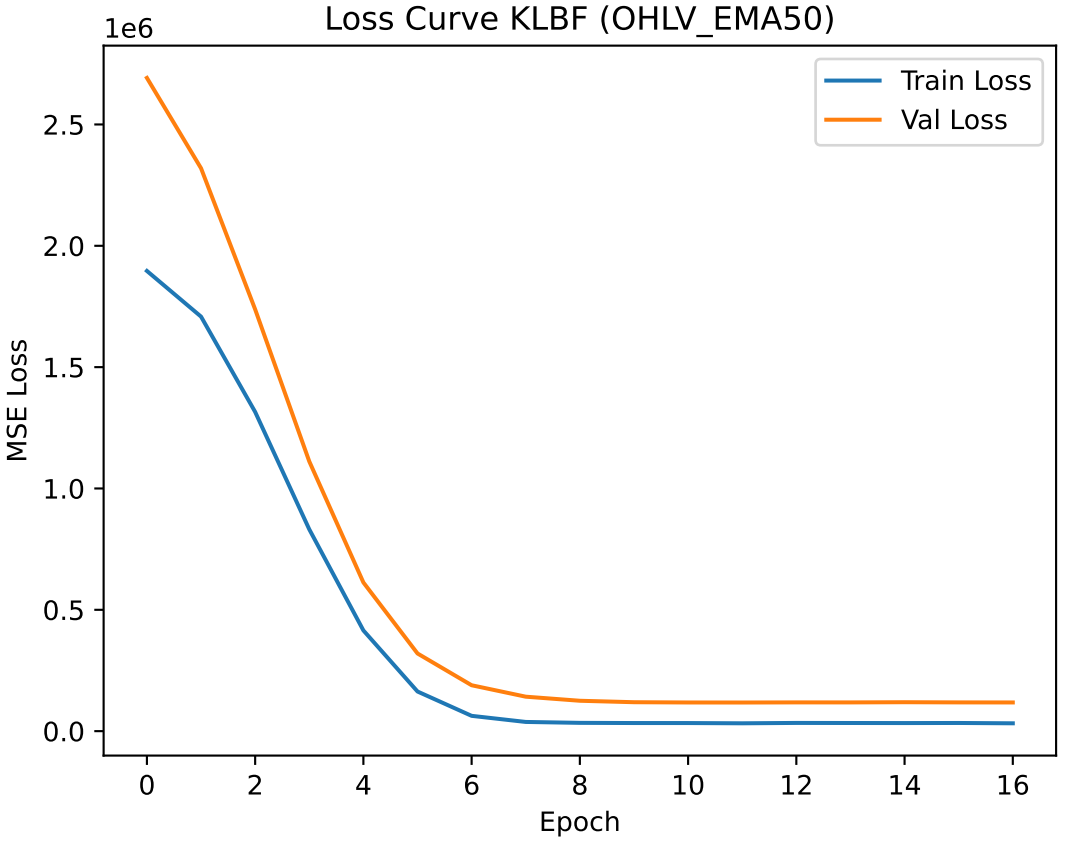

Loss Curve INKP (OHLV_EMA50)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
7
0
10
20
30
40

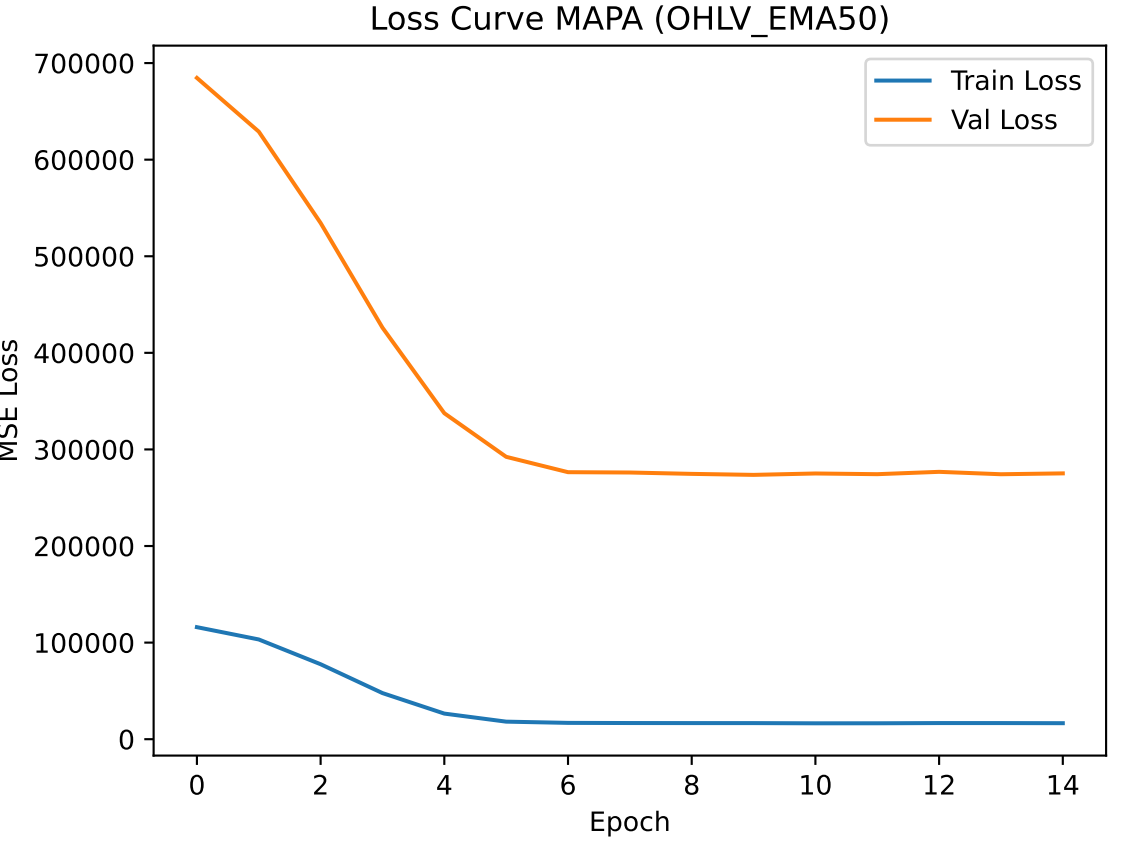

Loss Curve ISAT (OHLV_EMA50)
1e6
6
5
4
3
2
1
0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

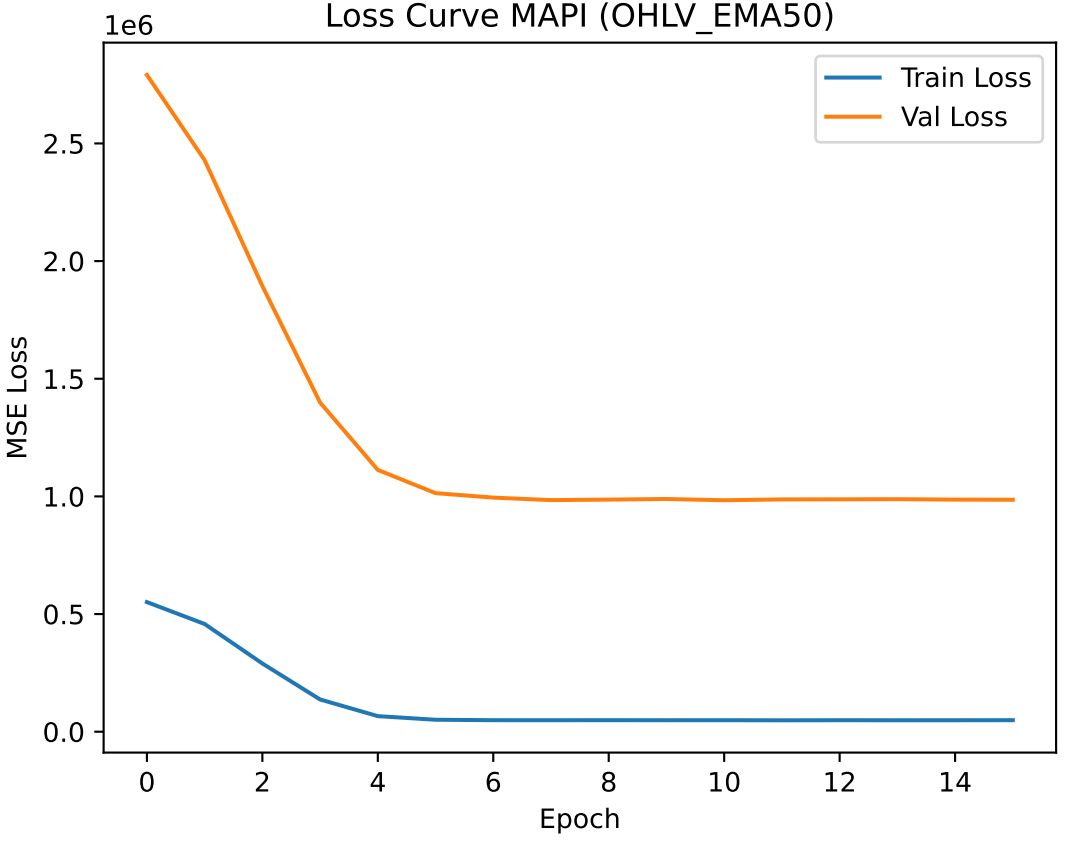

Loss Curve ITMG (OHLV_EMA50)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch

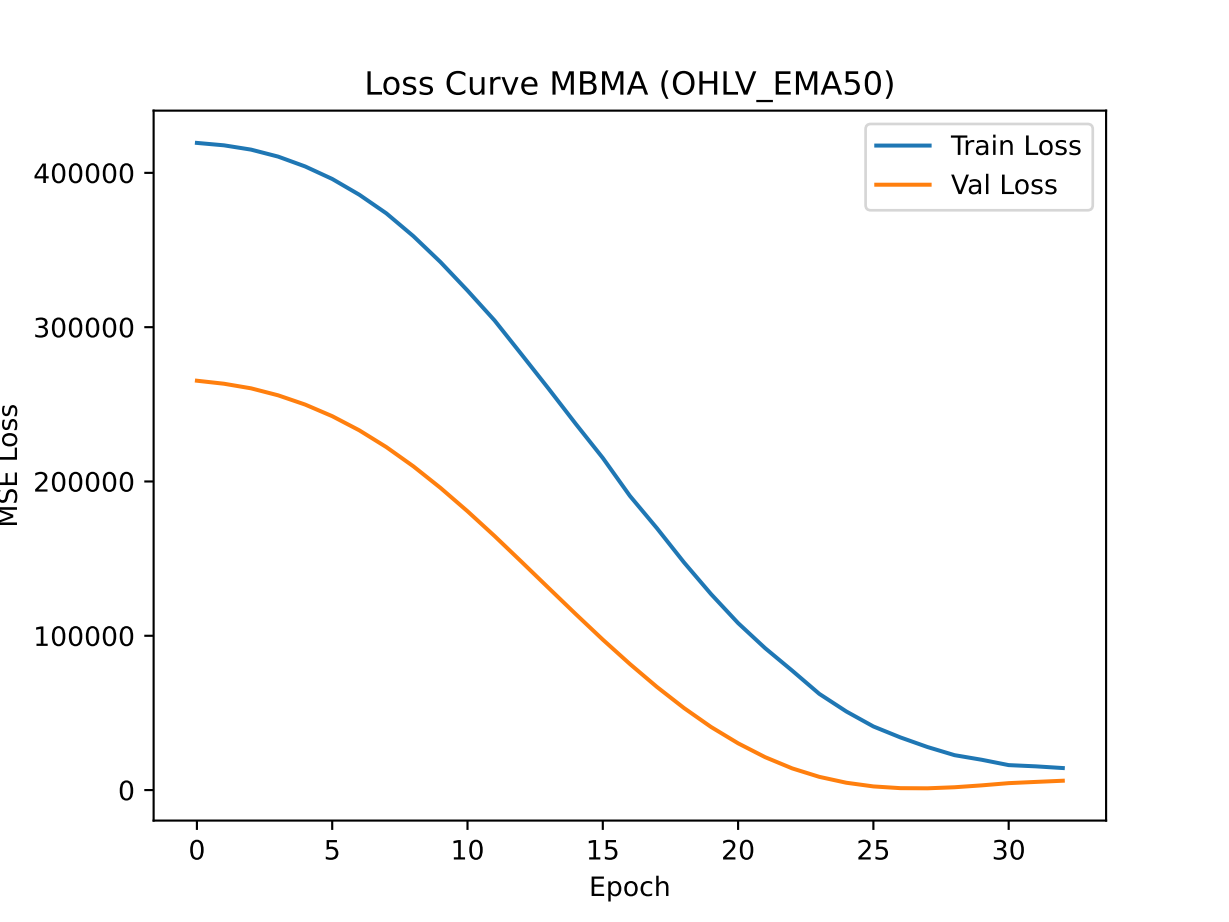

Loss Curve JPFA (OHLV_EMA50)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0

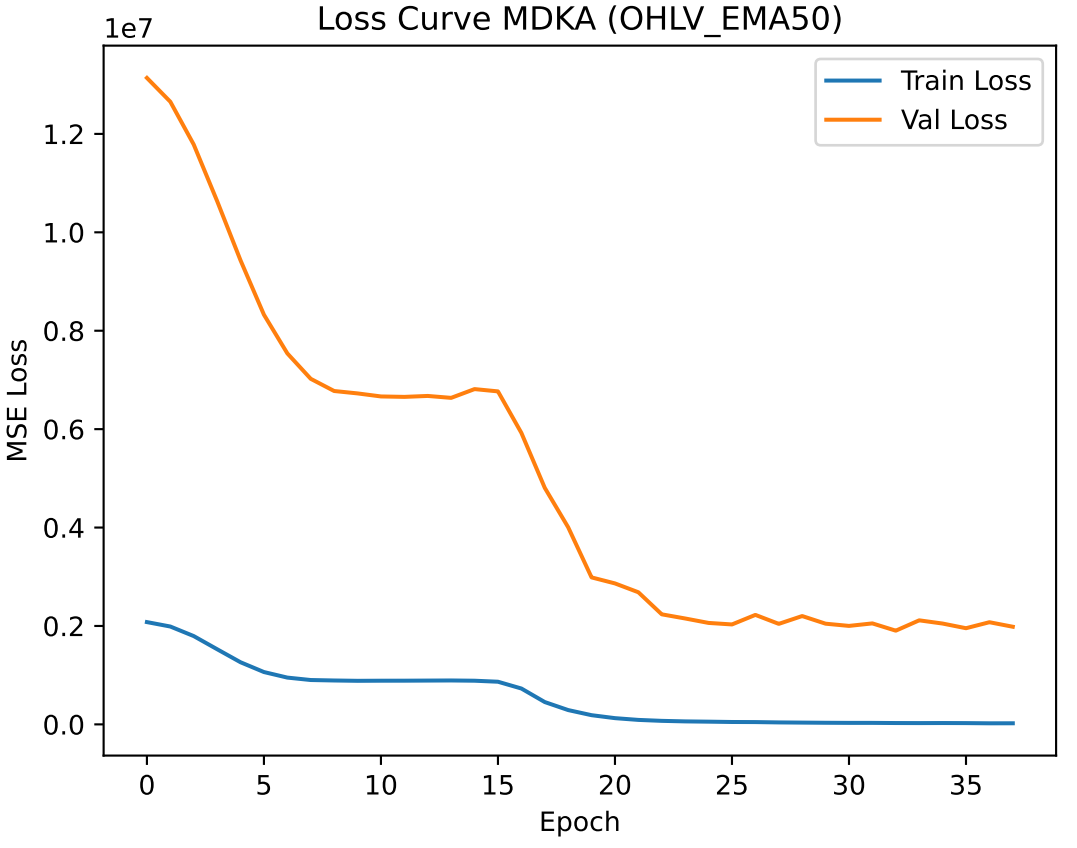

Loss Curve JSMR (OHLV_EMA50)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

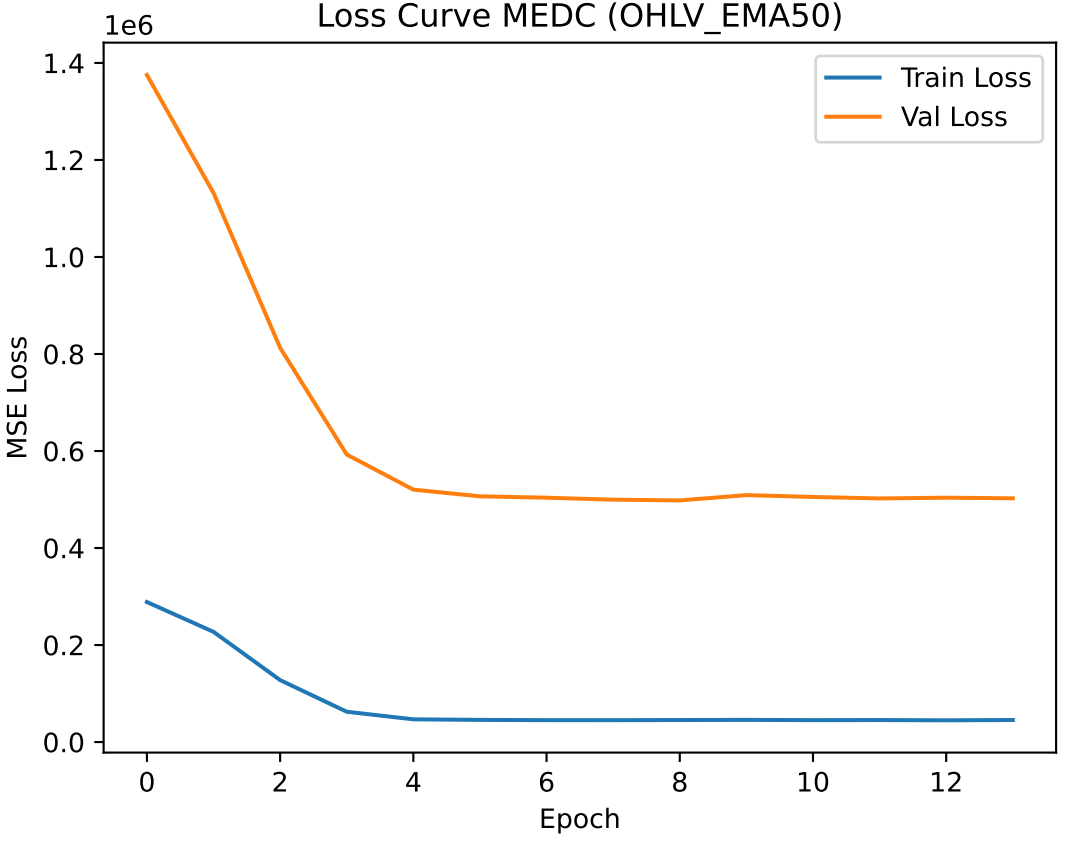

Loss Curve KLBF (OHLV_EMA50)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
16
Epoch

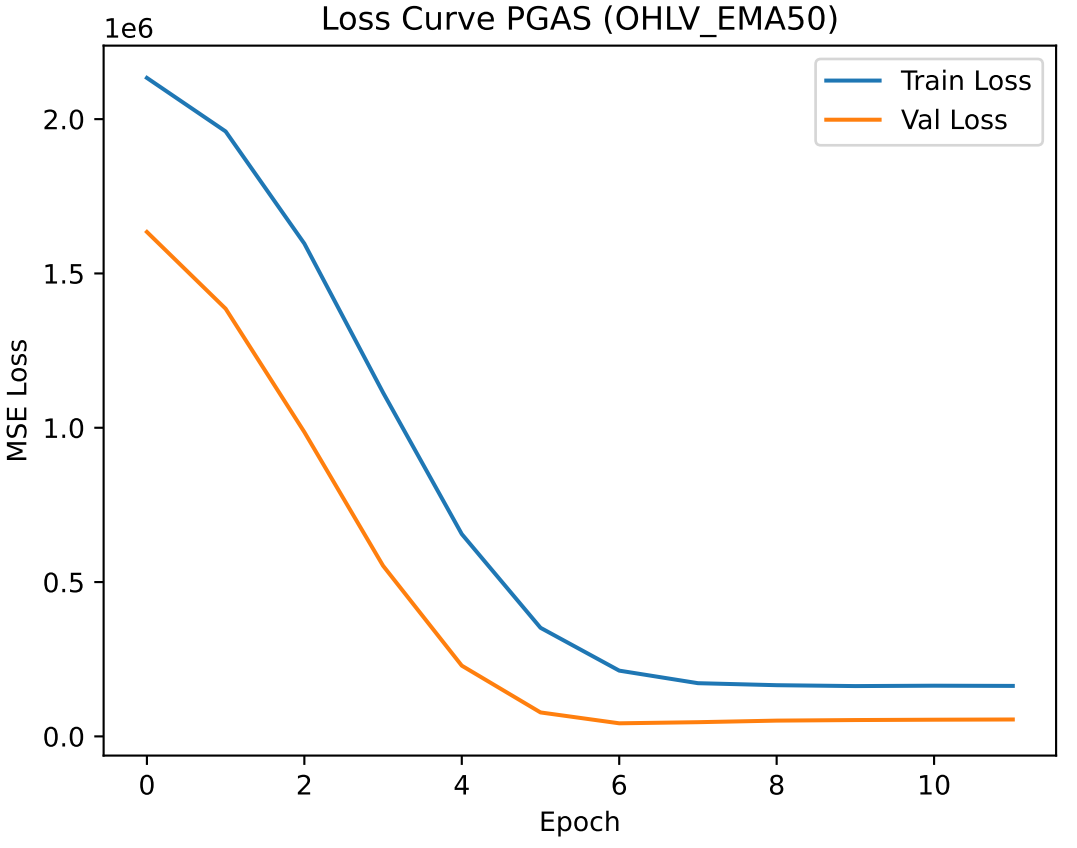

Loss Curve MAPA (OHLV_EMA50)
Train Loss
Val Loss
MSE Loss
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14
Epoch

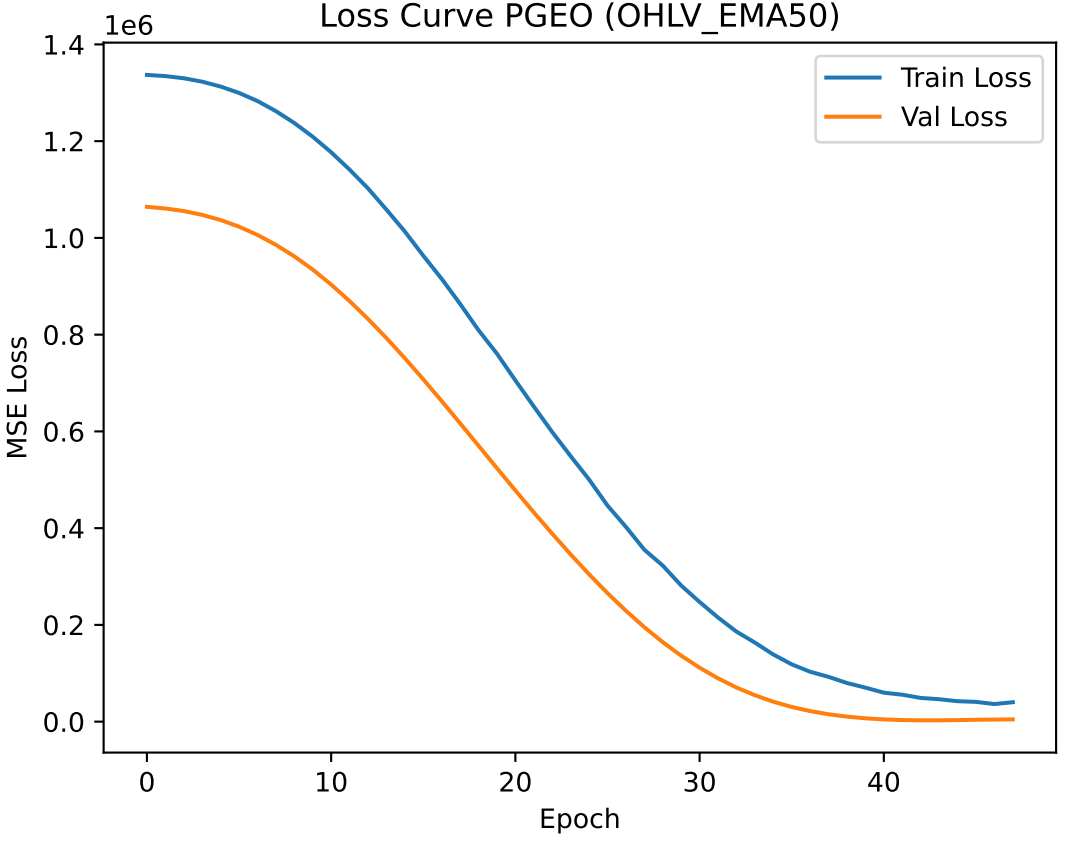

Loss Curve MAPI (OHLV_EMA50)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

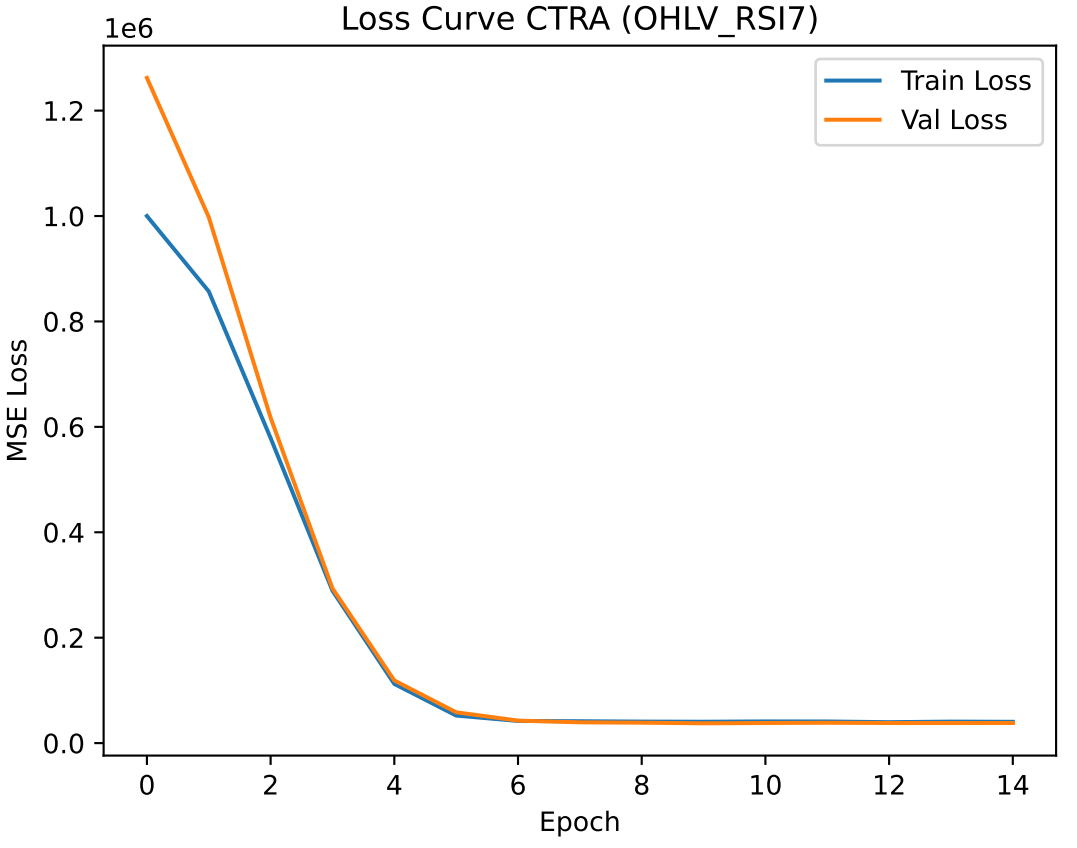

Loss Curve MBMA (OHLV_EMA50)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
Epoch

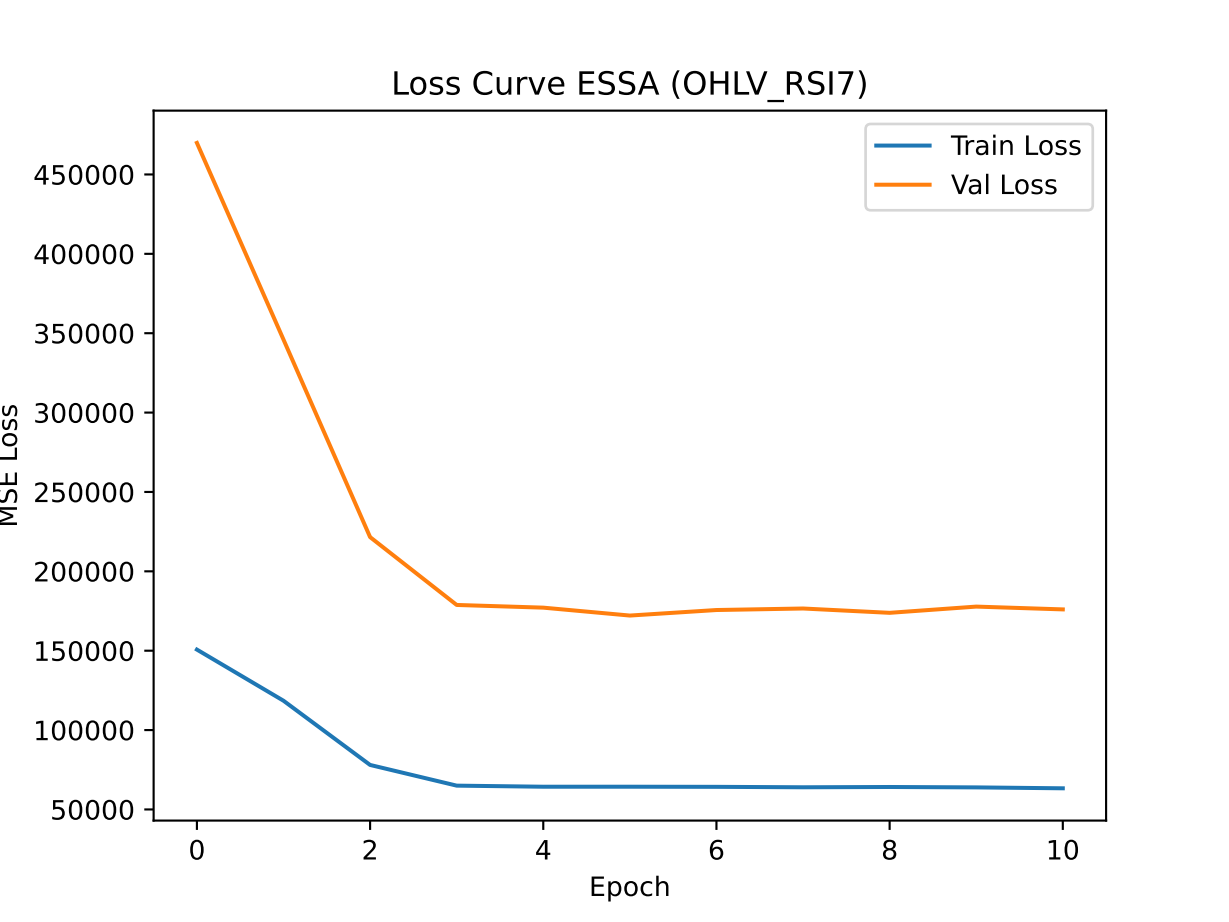

Loss Curve MDKA (OHLV_EMA50)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
25
30
35
Epoch


Loss Curve MEDC (OHLV_EMA50)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
Epoch


Loss Curve PGAS (OHLV_EMA50)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch


Loss Curve PGEO (OHLV_EMA50)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
Epoch


Loss Curve CTRA (OHLV_RSI7)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12
14


Loss Curve ESSA (OHLV_RSI7)
Train Loss
Val Loss
MSE Loss
Epoch
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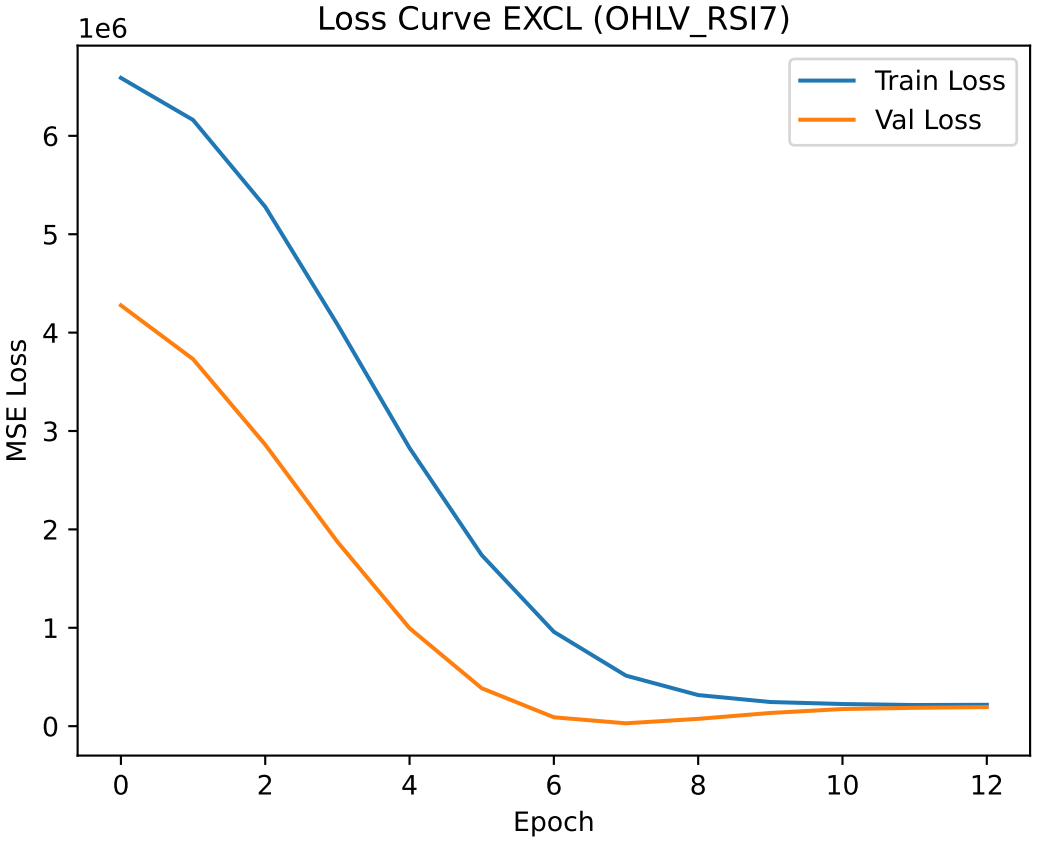
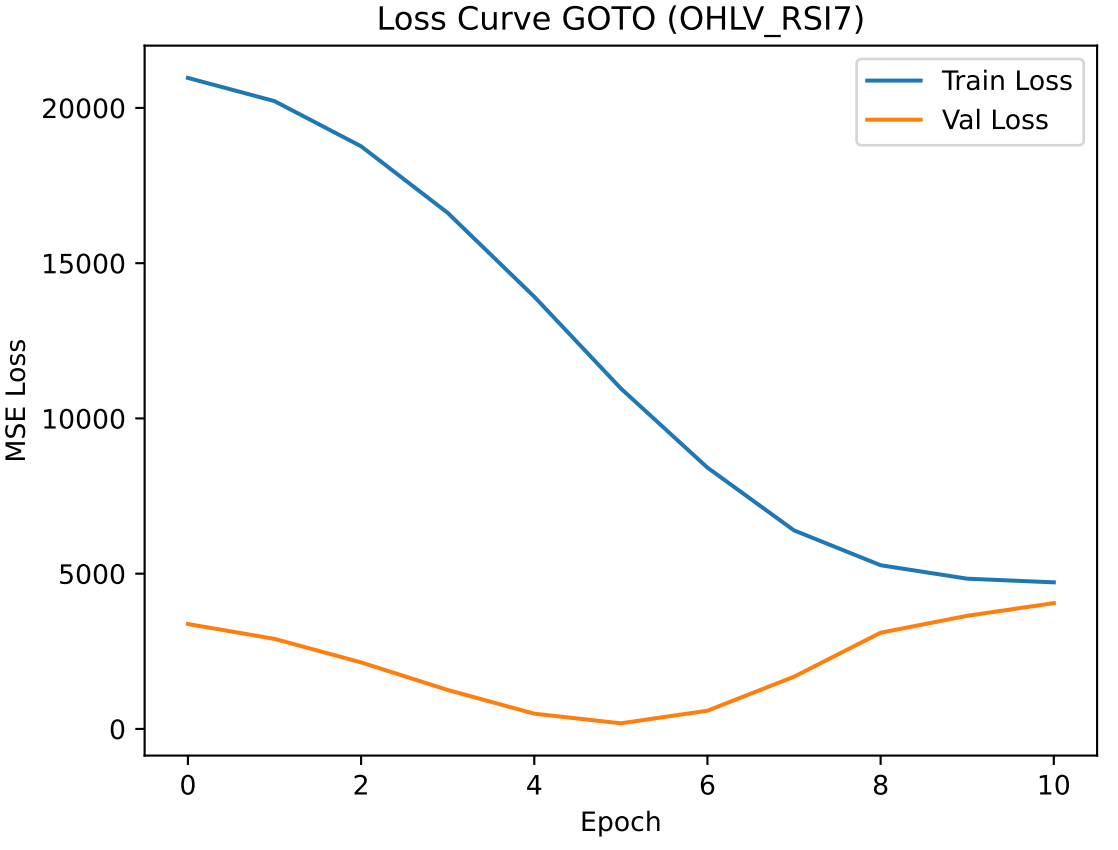
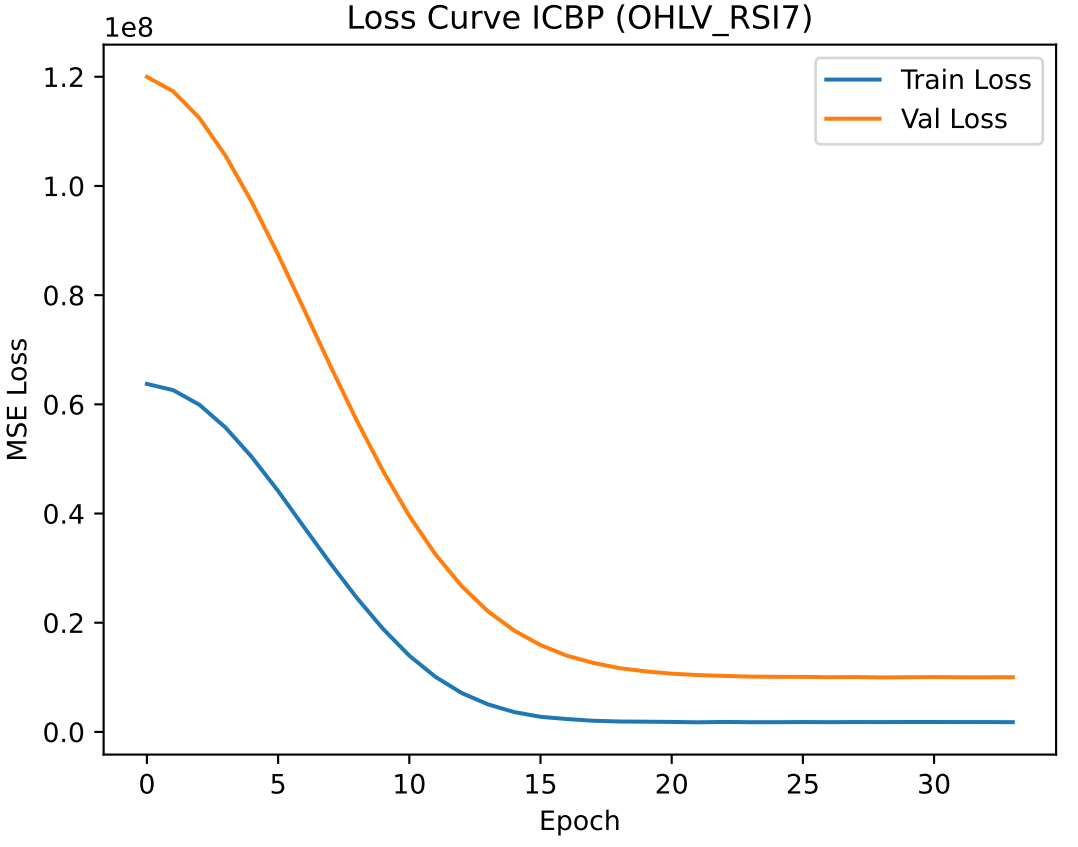
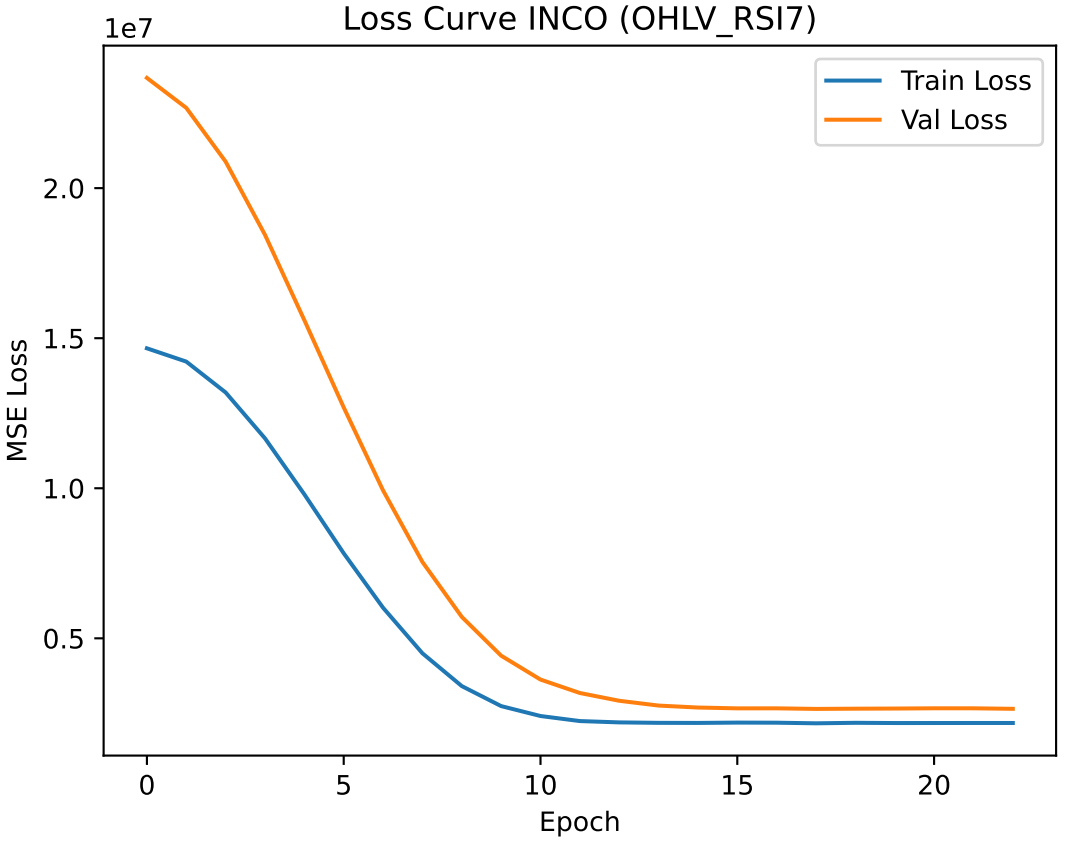
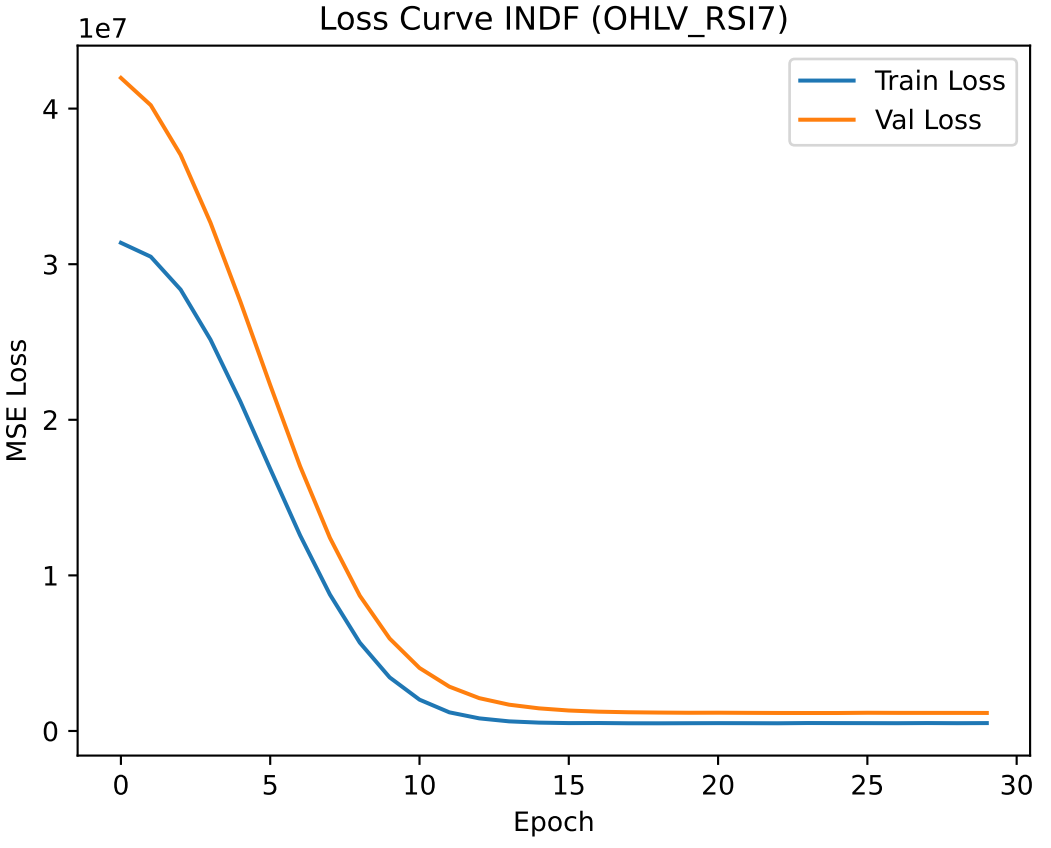
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8
10

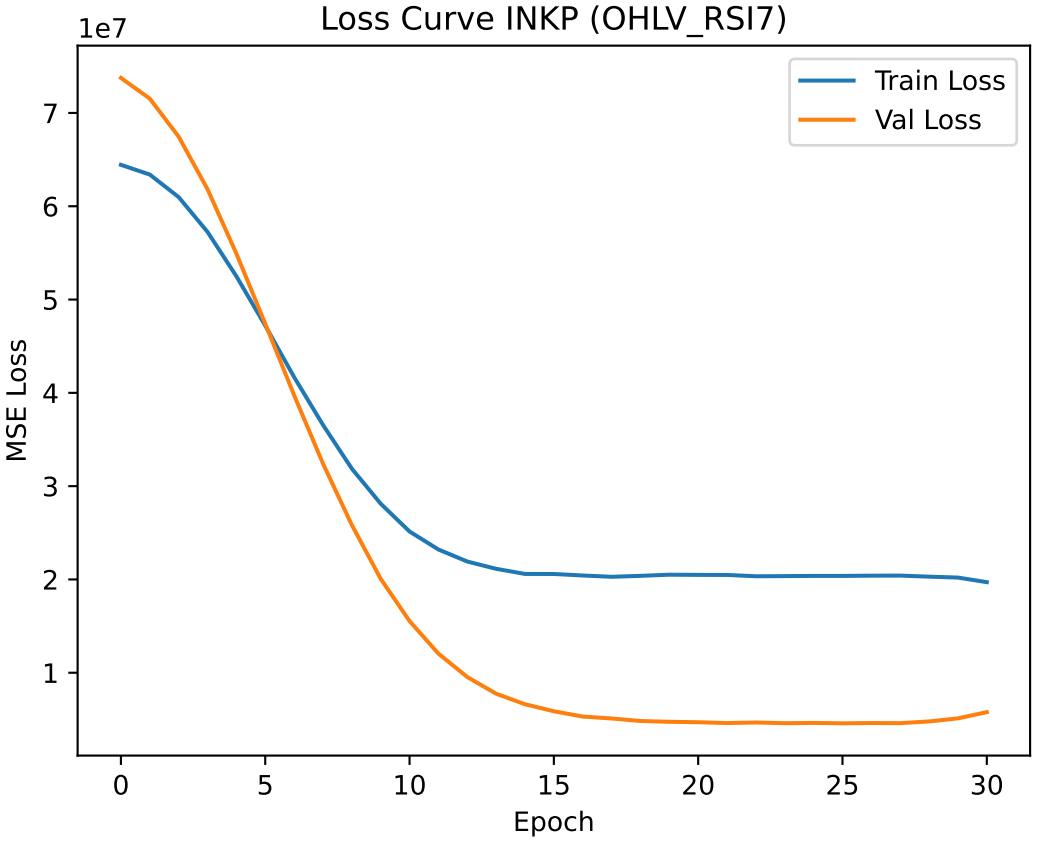

Loss Curve EXCL (OHLV_RSI7)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12


Loss Curve GOTO (OHLV_RSI7)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch


Loss Curve ICBP (OHLV_RSI7)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss


Loss Curve INCO (OHLV_RSI7)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
Epoch


Loss Curve INDF (OHLV_RSI7)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30


Loss Curve INKP (OHLV_RSI7)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
0
5
10
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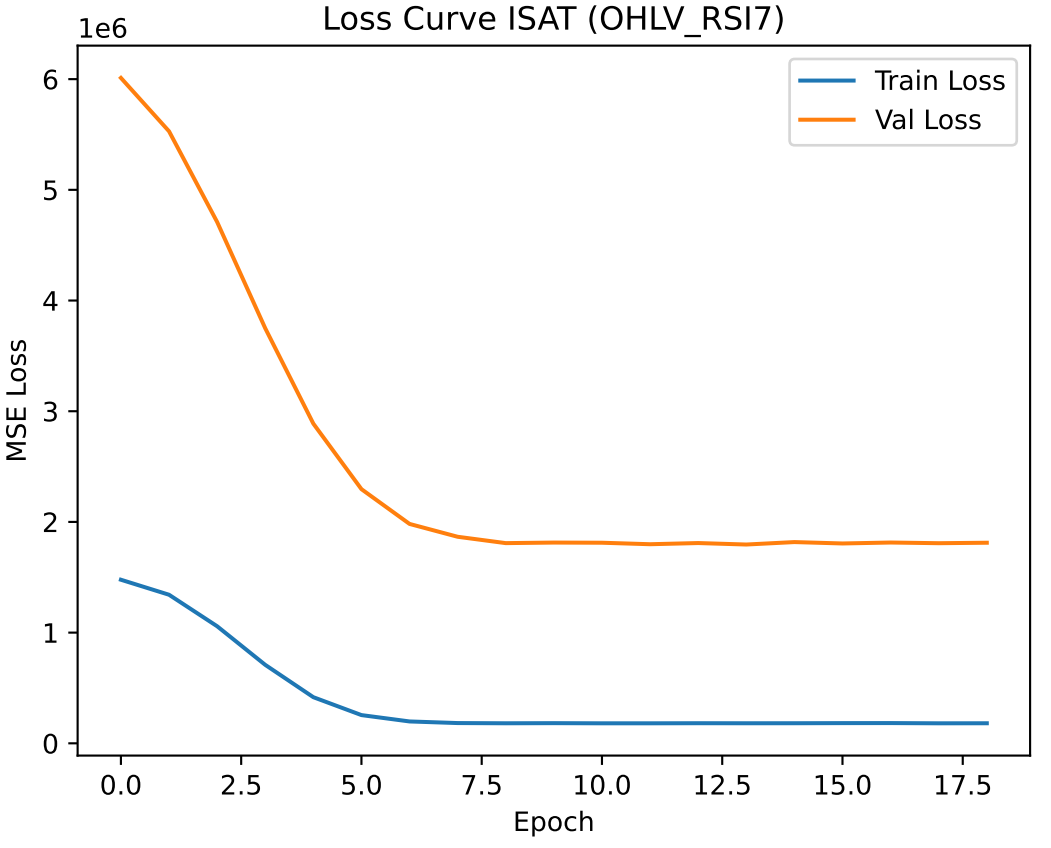
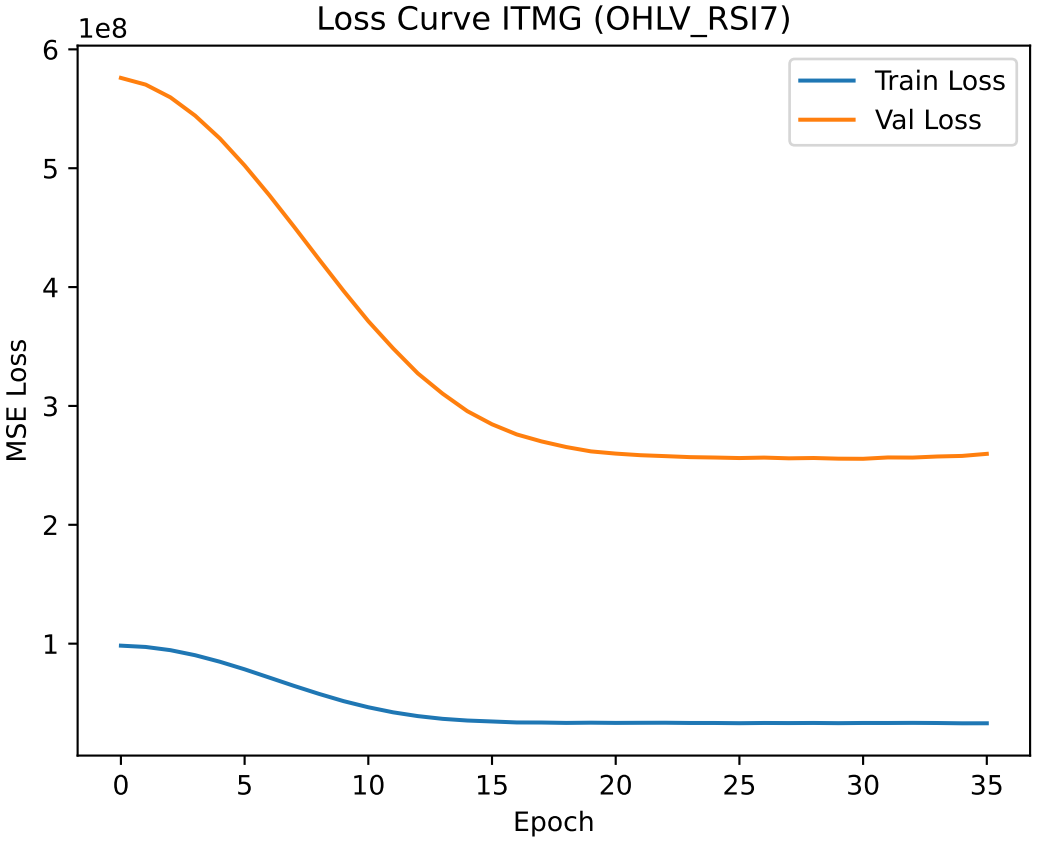
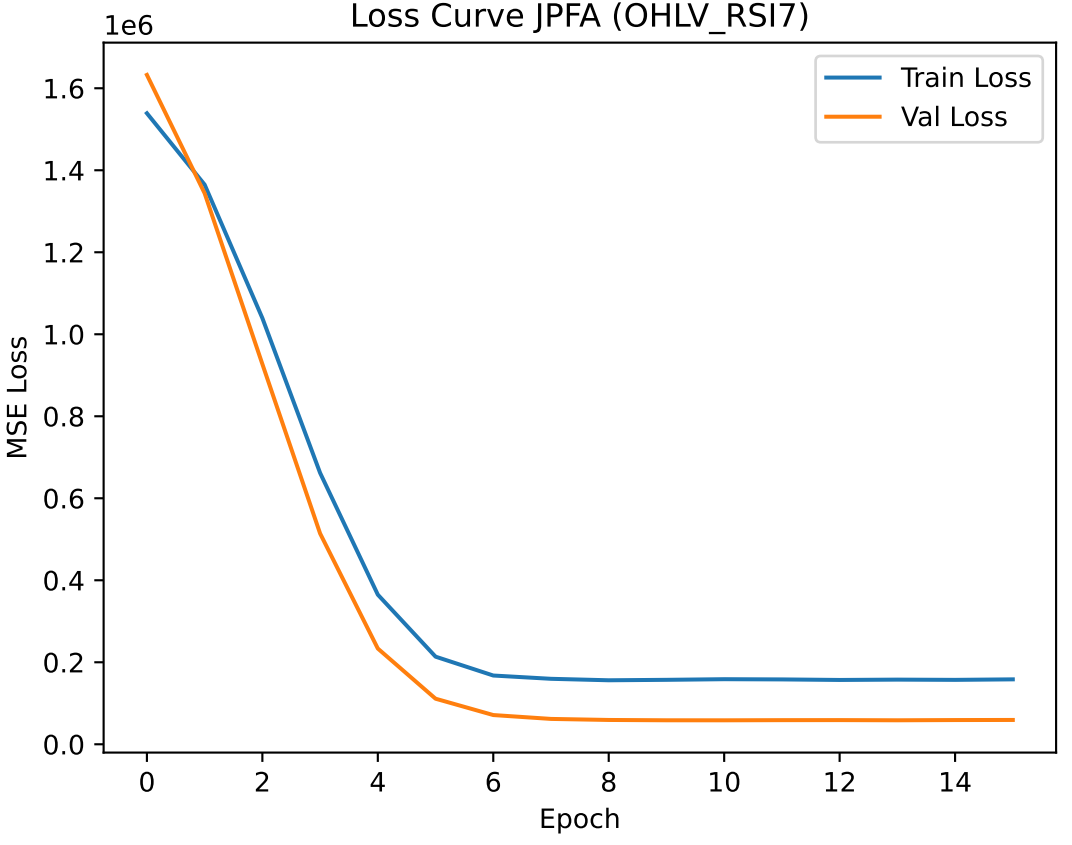
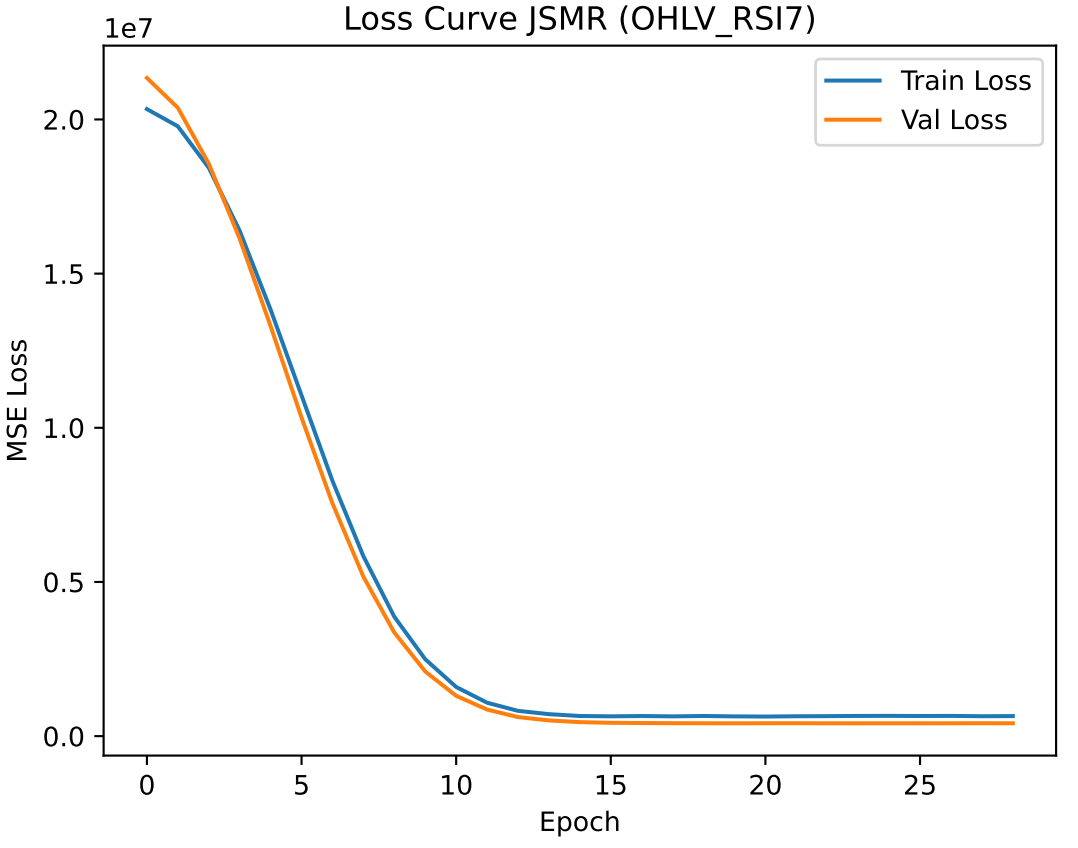
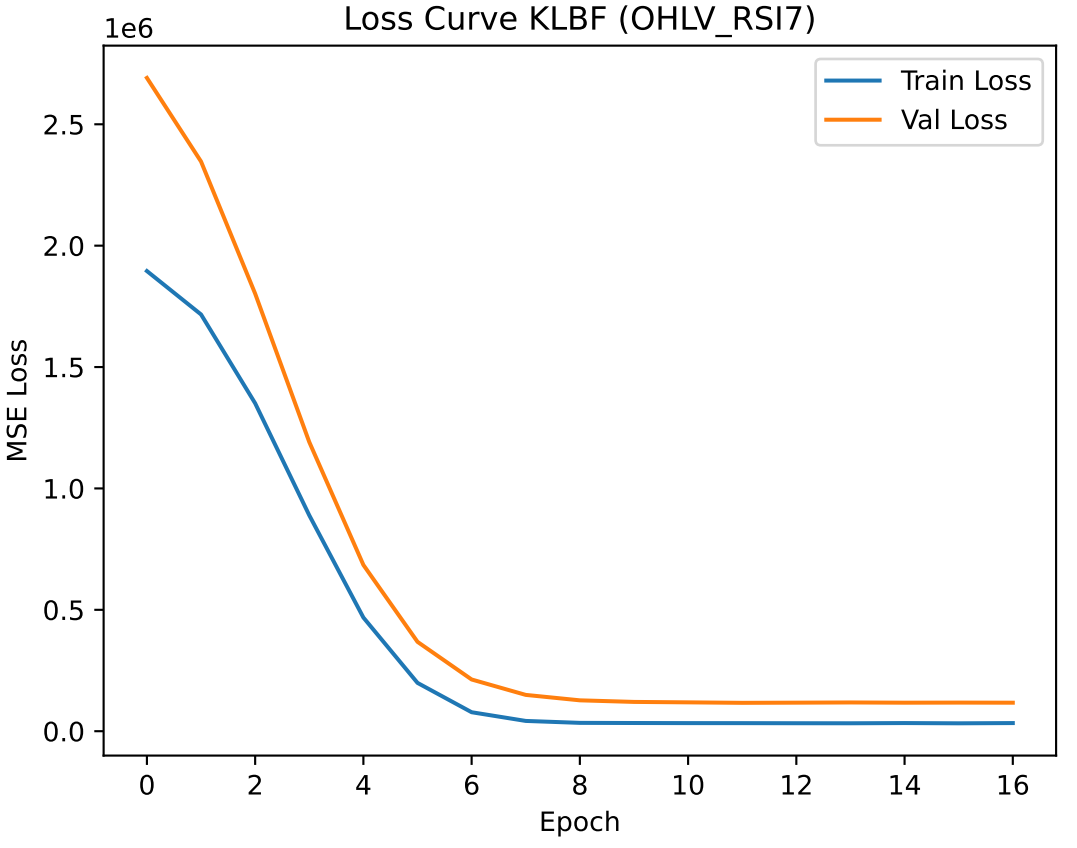
20
25
30
1
2
3
4
5
6
7

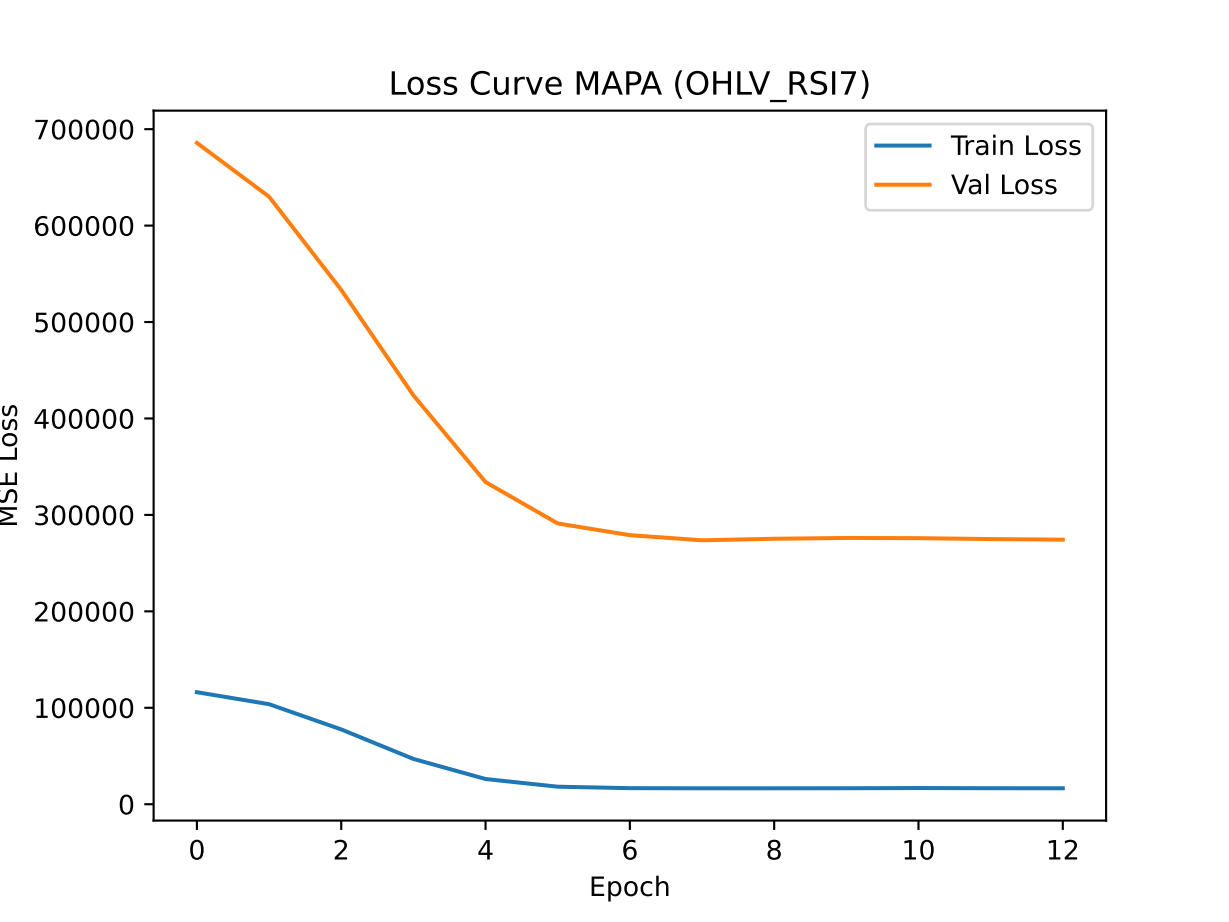

Loss Curve ISAT (OHLV_RSI7)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

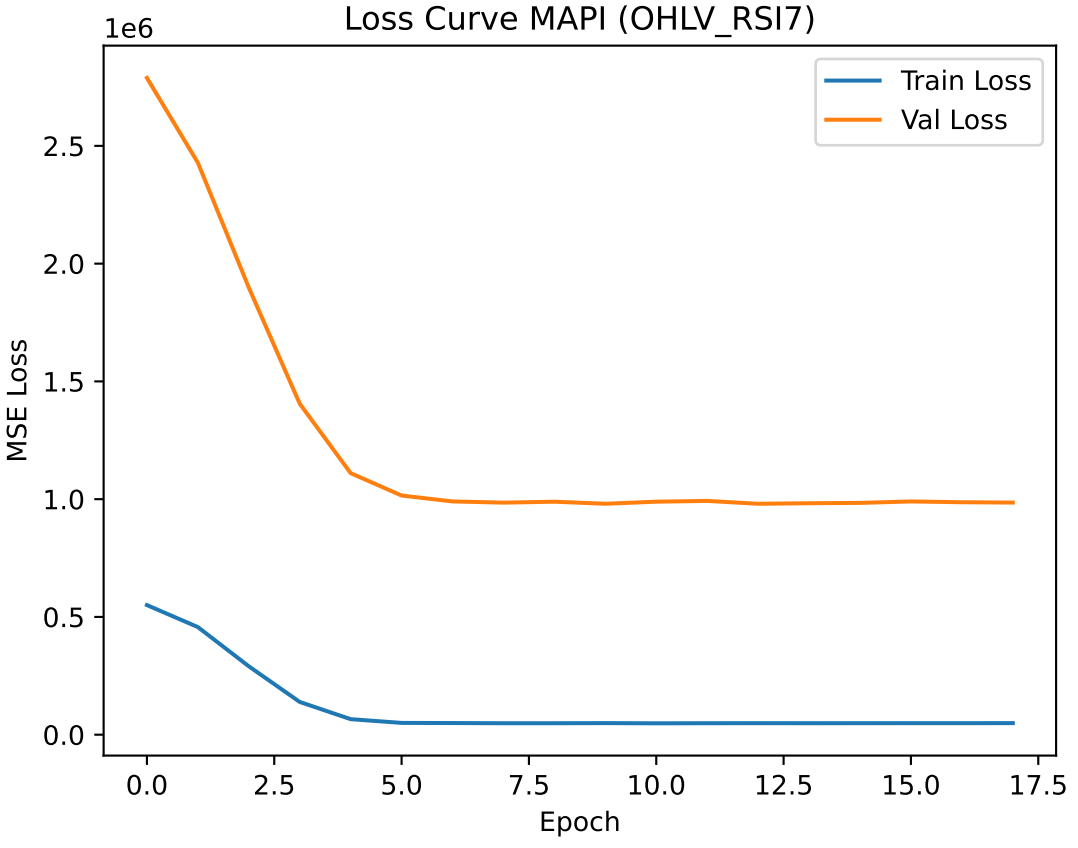

Loss Curve ITMG (OHLV_RSI7)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

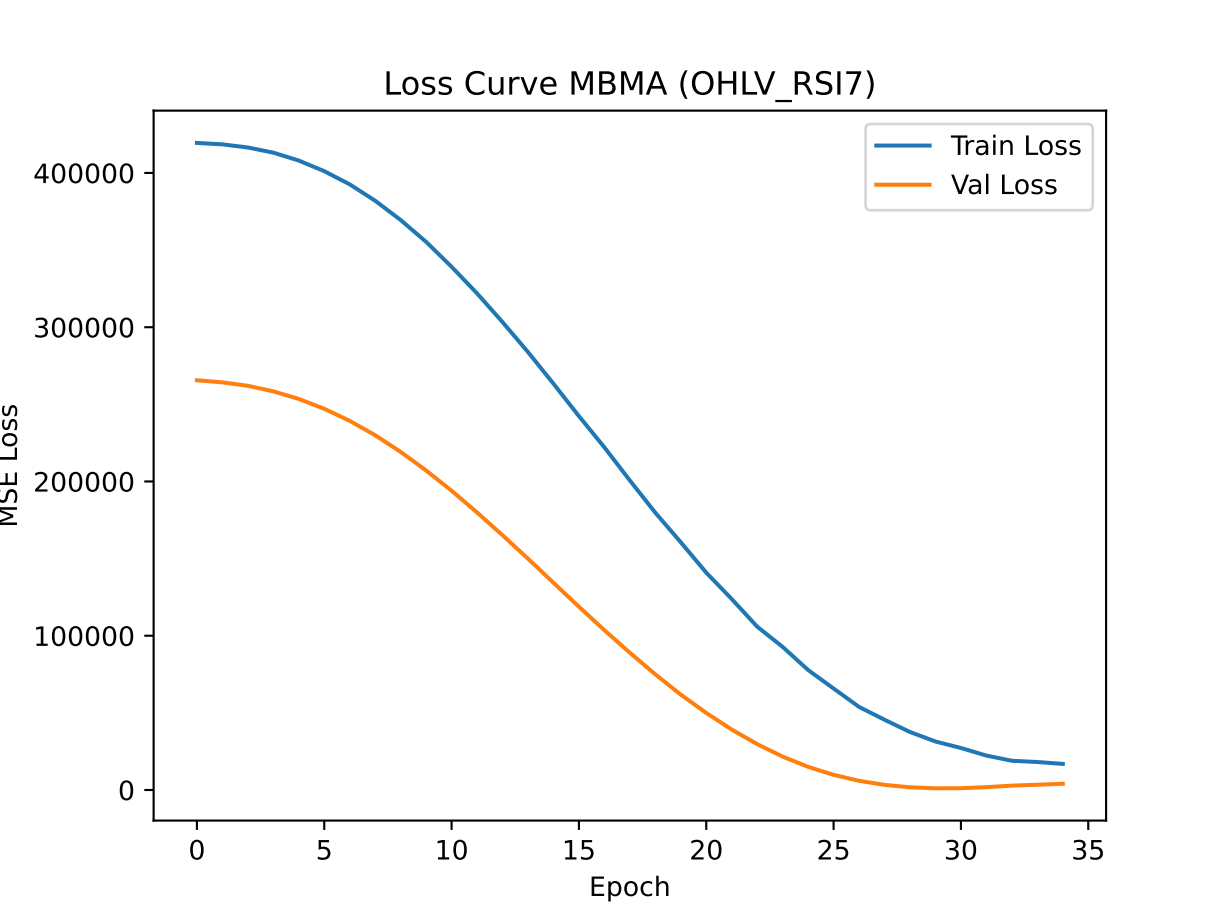

Loss Curve JPFA (OHLV_RSI7)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14

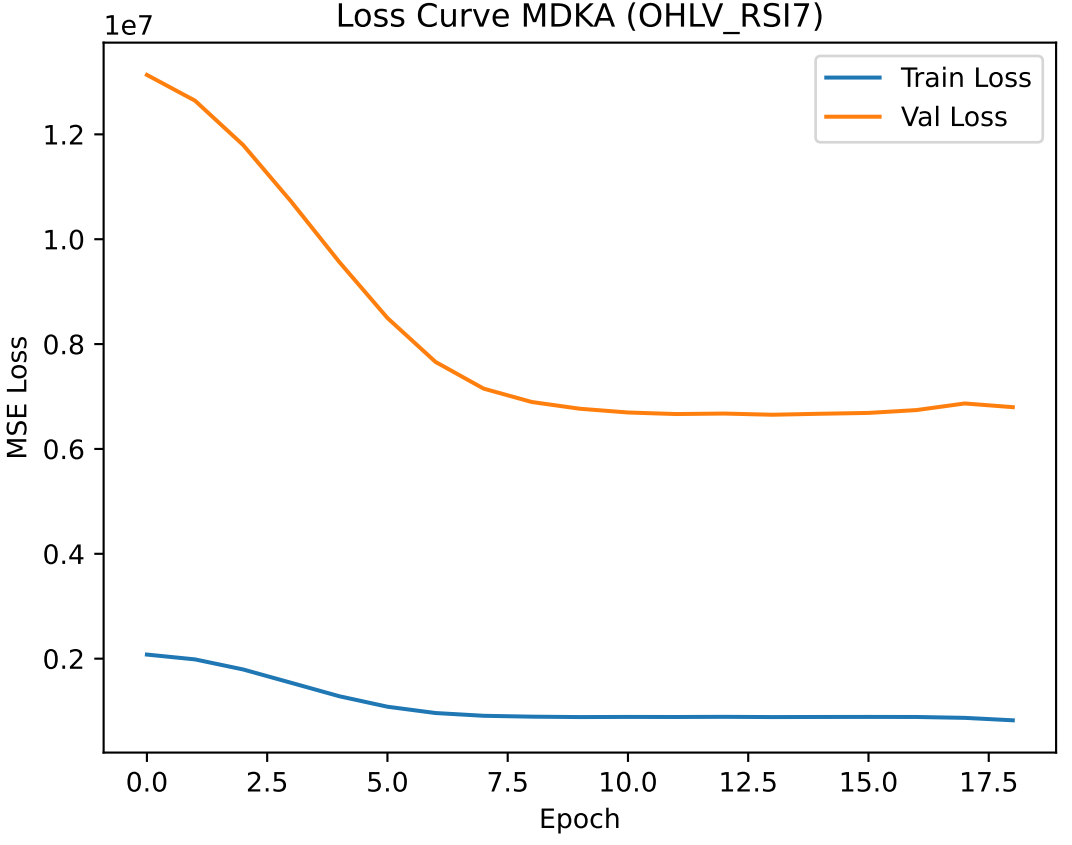

Loss Curve JSMR (OHLV_RSI7)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

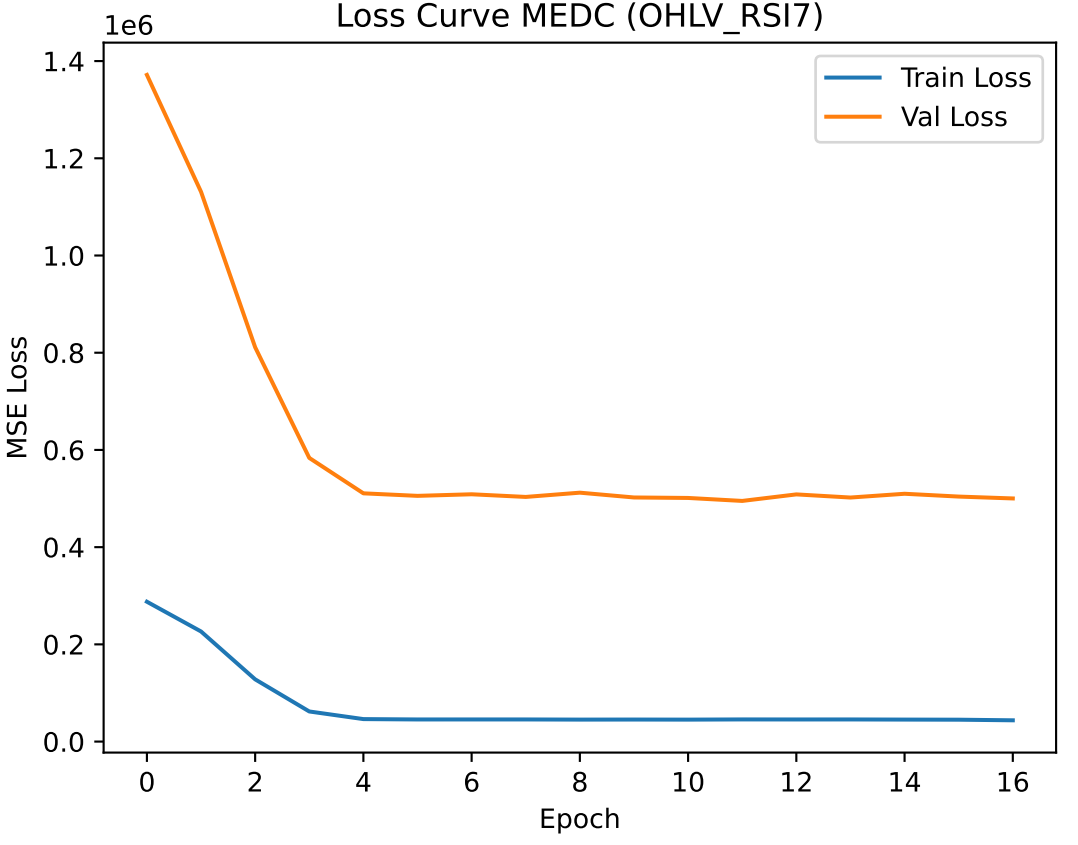

Loss Curve KLBF (OHLV_RSI7)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
16
Epoch

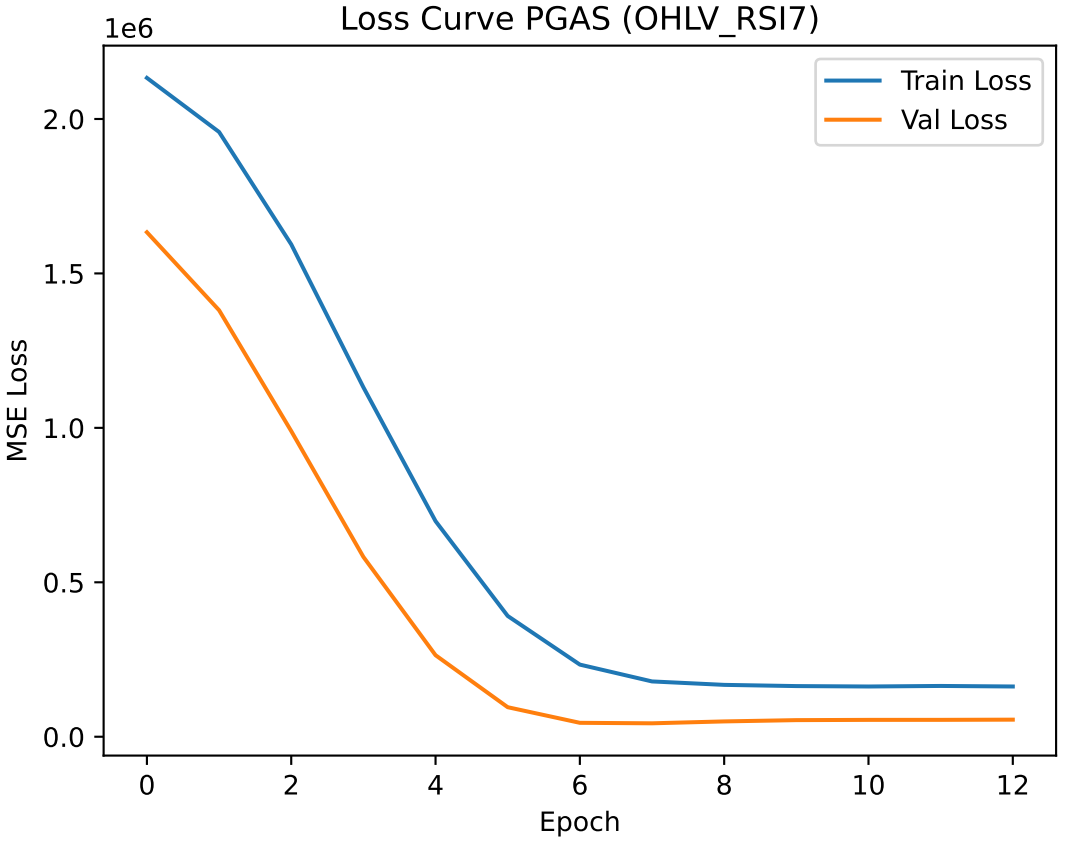

Loss Curve MAPA (OHLV_RSI7)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12

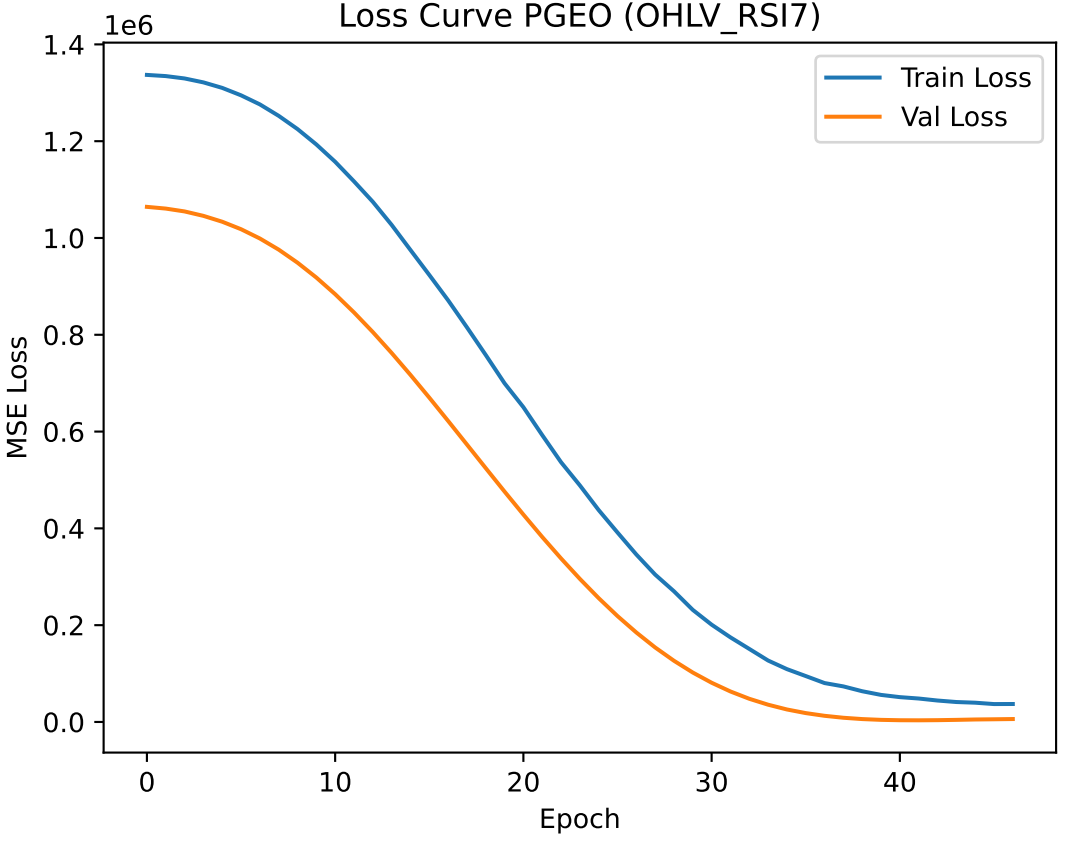

Loss Curve MAPI (OHLV_RSI7)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

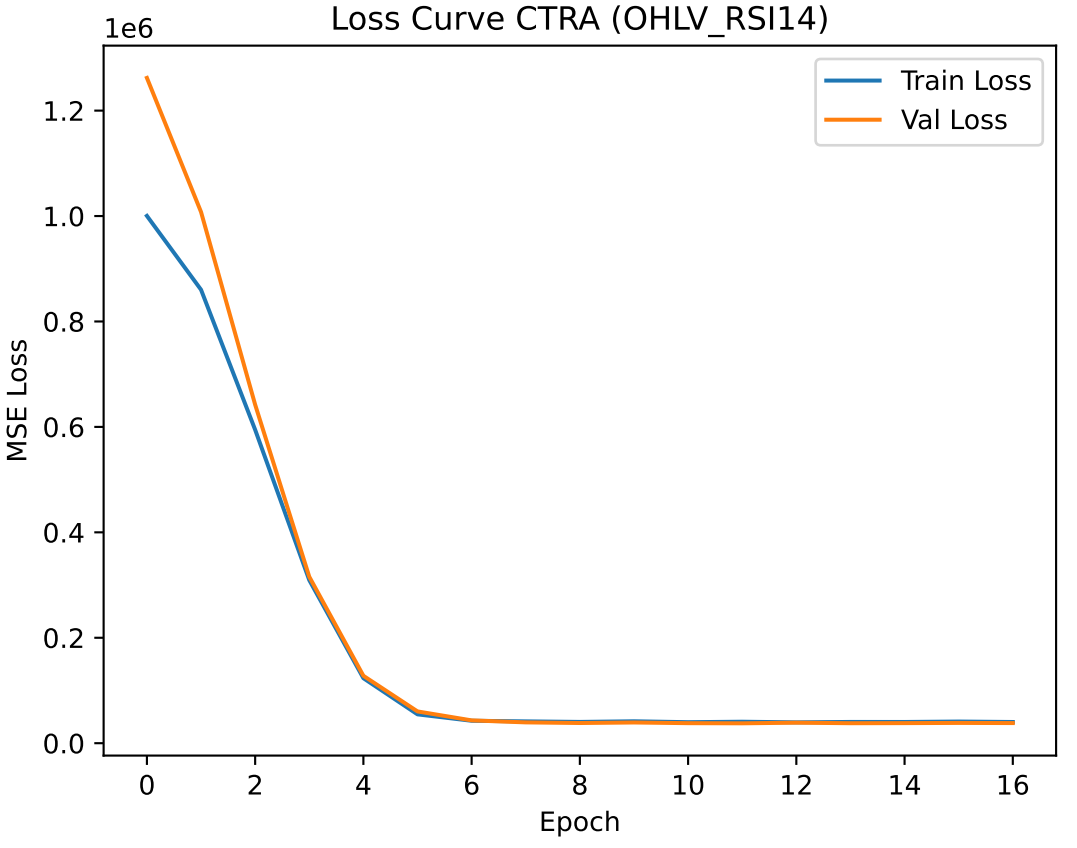

Loss Curve MBMA (OHLV_RSI7)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

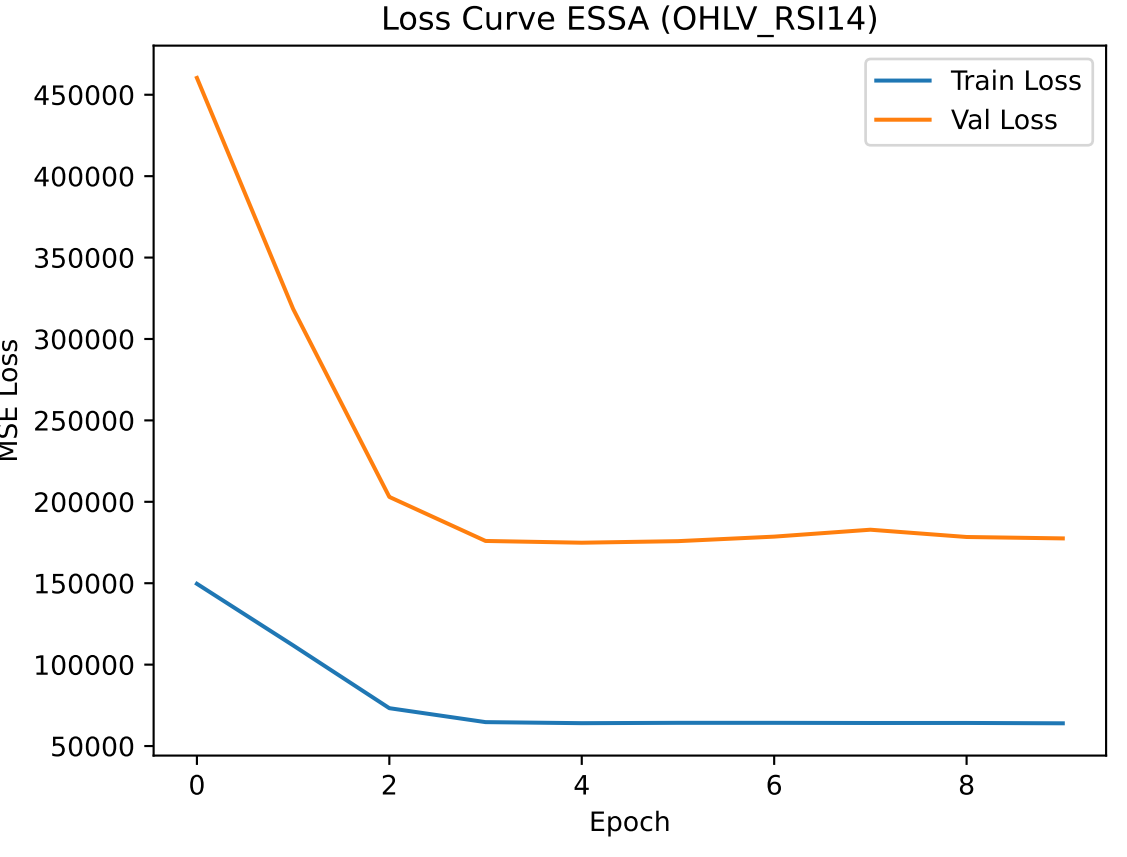

Loss Curve MDKA (OHLV_RSI7)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

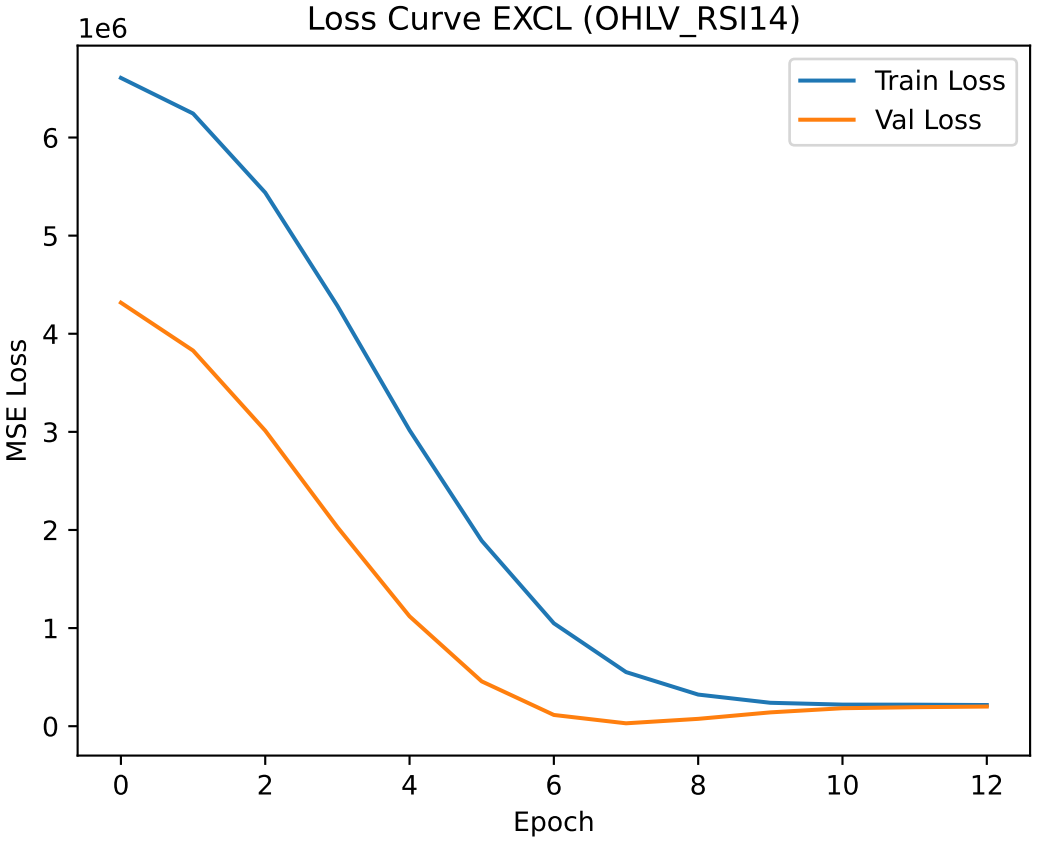

Loss Curve MEDC (OHLV_RSI7)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
12
14
16
Epoch

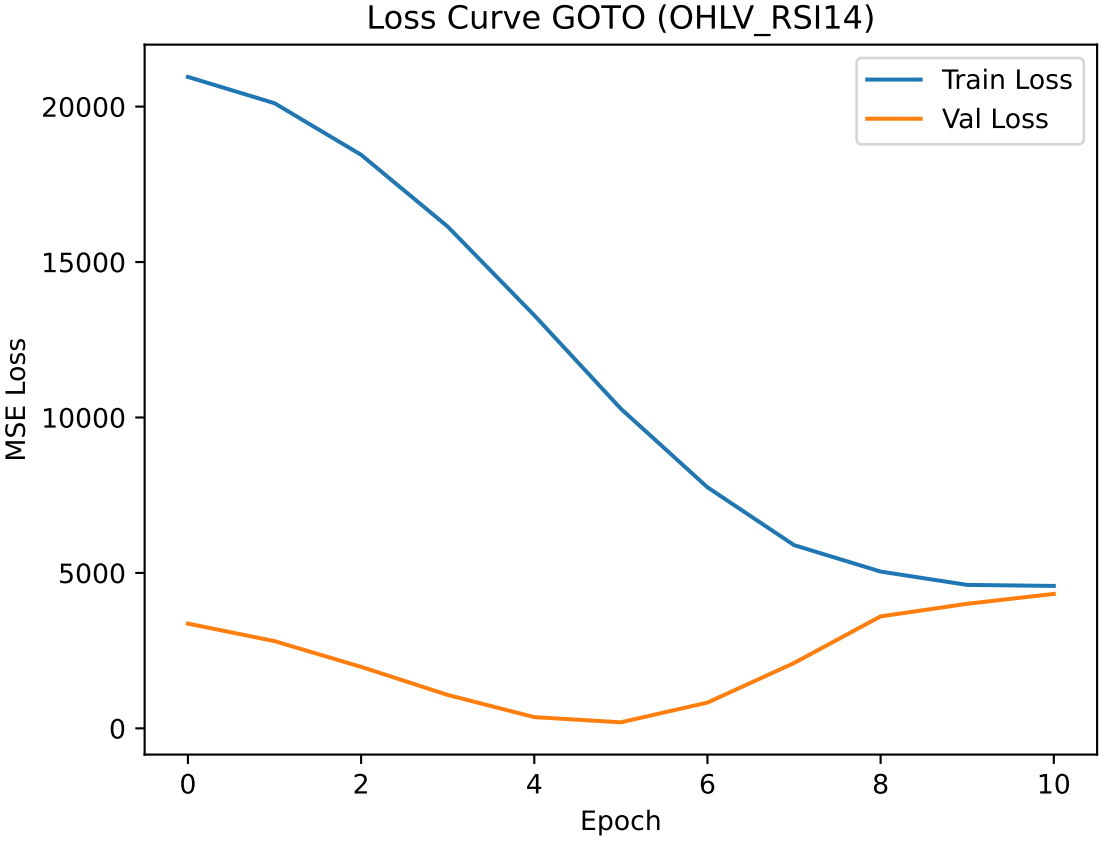

Loss Curve PGAS (OHLV_RSI7)
1e6
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
2
4
6
8
10
12
Epoch
Train Loss
Val Loss

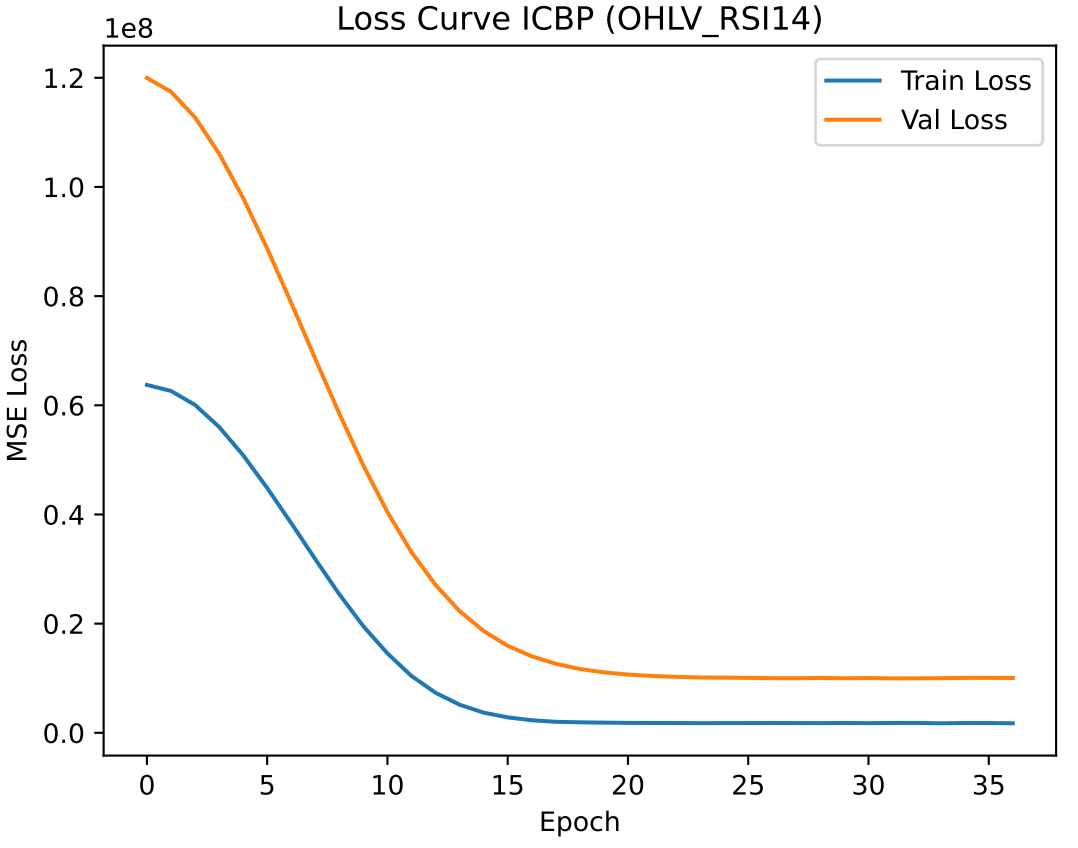

Loss Curve PGEO (OHLV_RSI7)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
Epoch

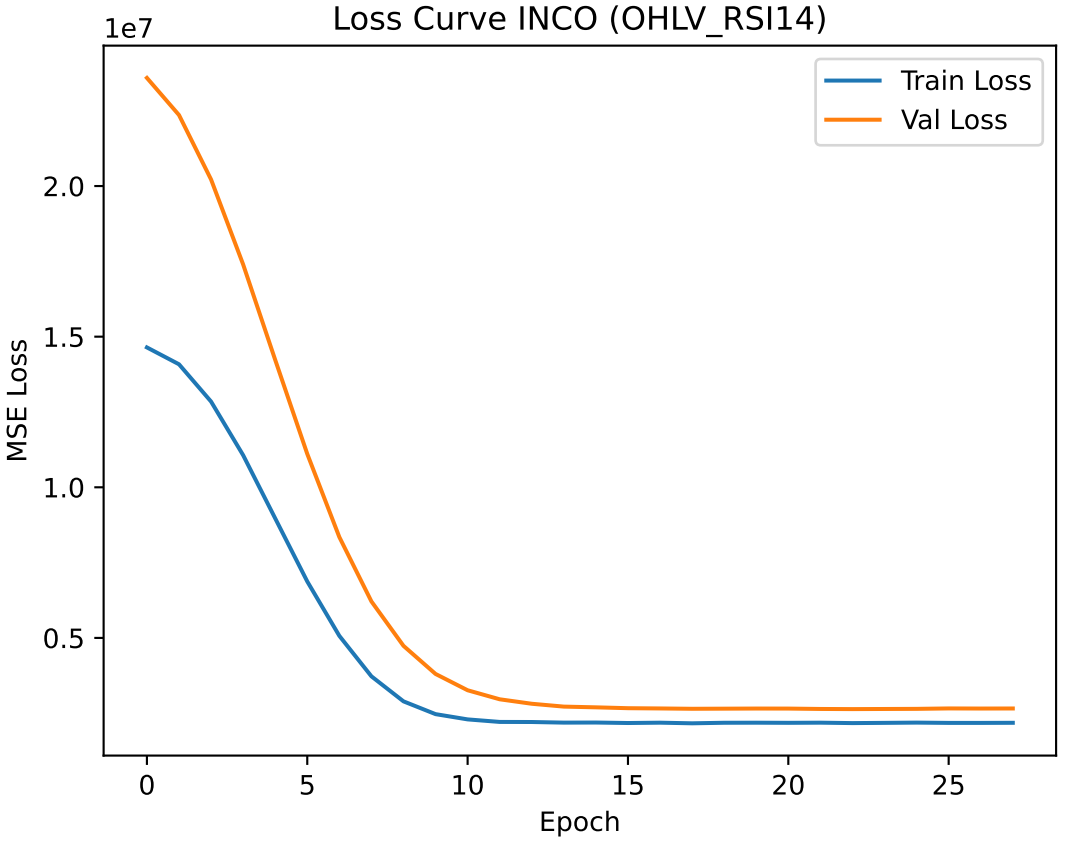

Loss Curve CTRA (OHLV_RSI14)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12
14
16

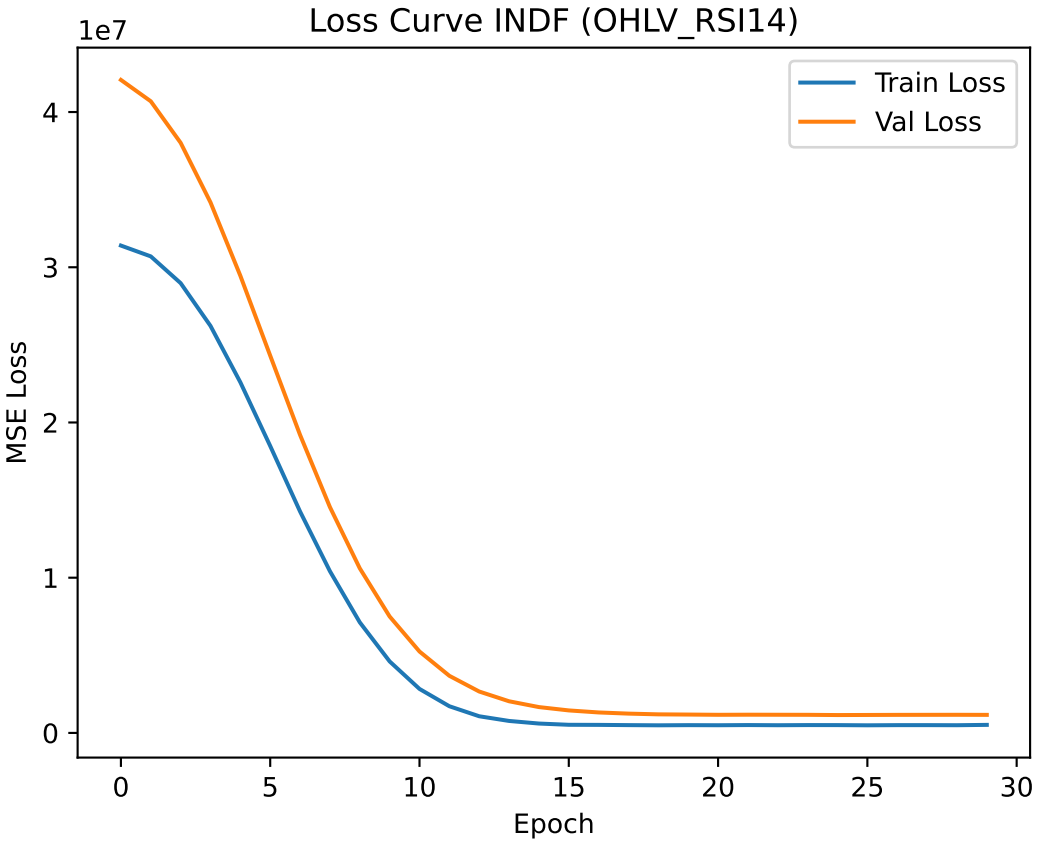

Loss Curve ESSA (OHLV_RSI14)
Train Loss
Val Loss
MSE Loss
Epoch
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8


Loss Curve EXCL (OHLV_RSI14)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12


Loss Curve GOTO (OHLV_RSI14)
Train Loss
Val Loss
MSE Loss
Epoch
20000
15000
10000
5000
0
0
2
4
6
8
10


Loss Curve ICBP (OHLV_RSI14)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch


Loss Curve INCO (OHLV_RSI14)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0
5
10
15
20
25
Epoch


Loss Curve INDF (OHLV_RSI14)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
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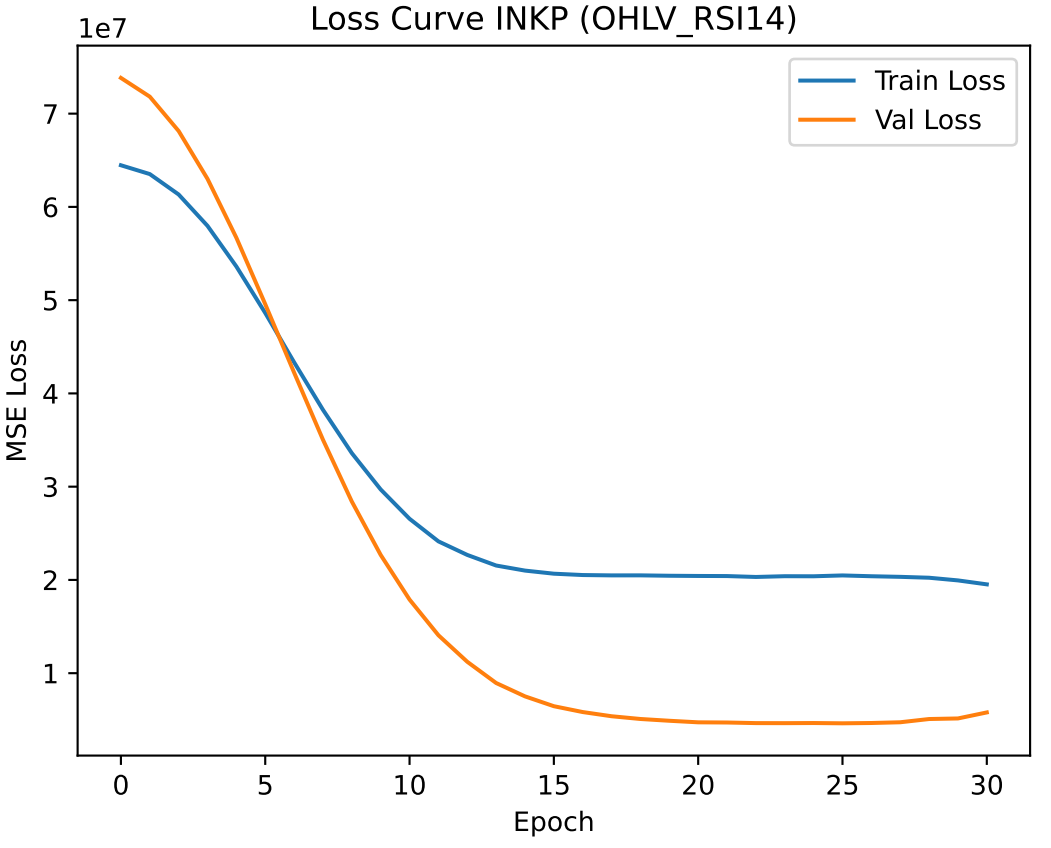
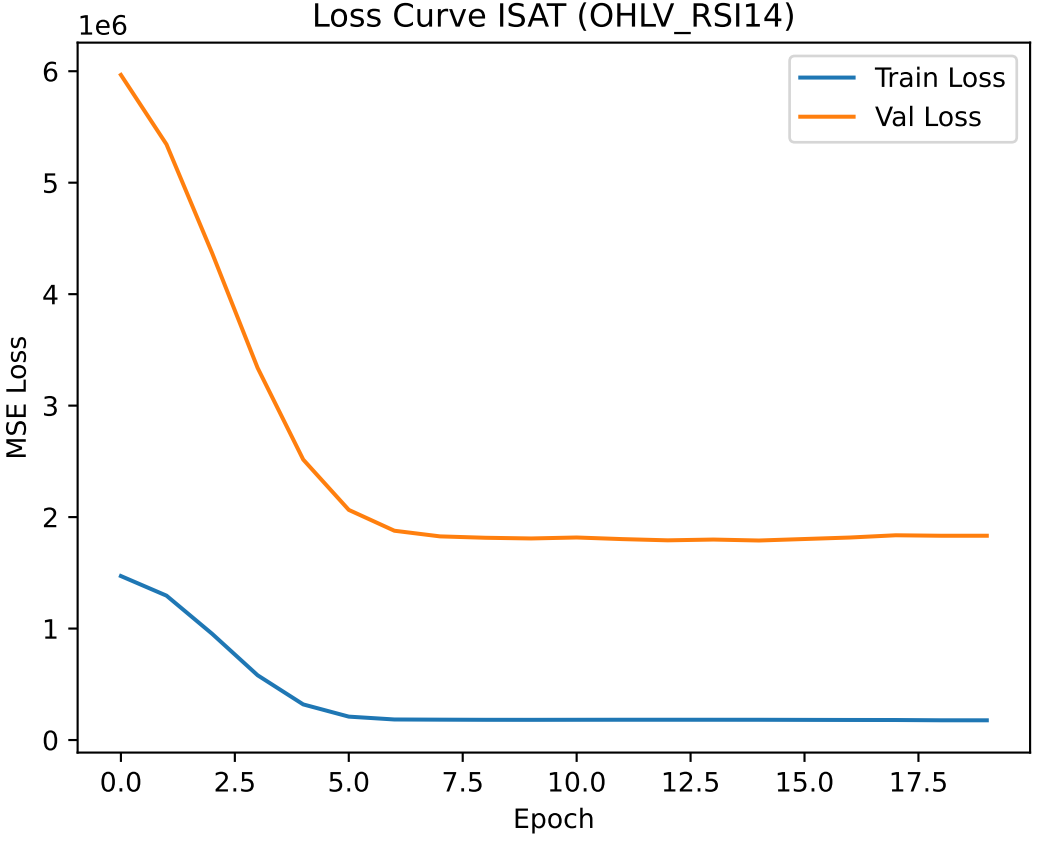
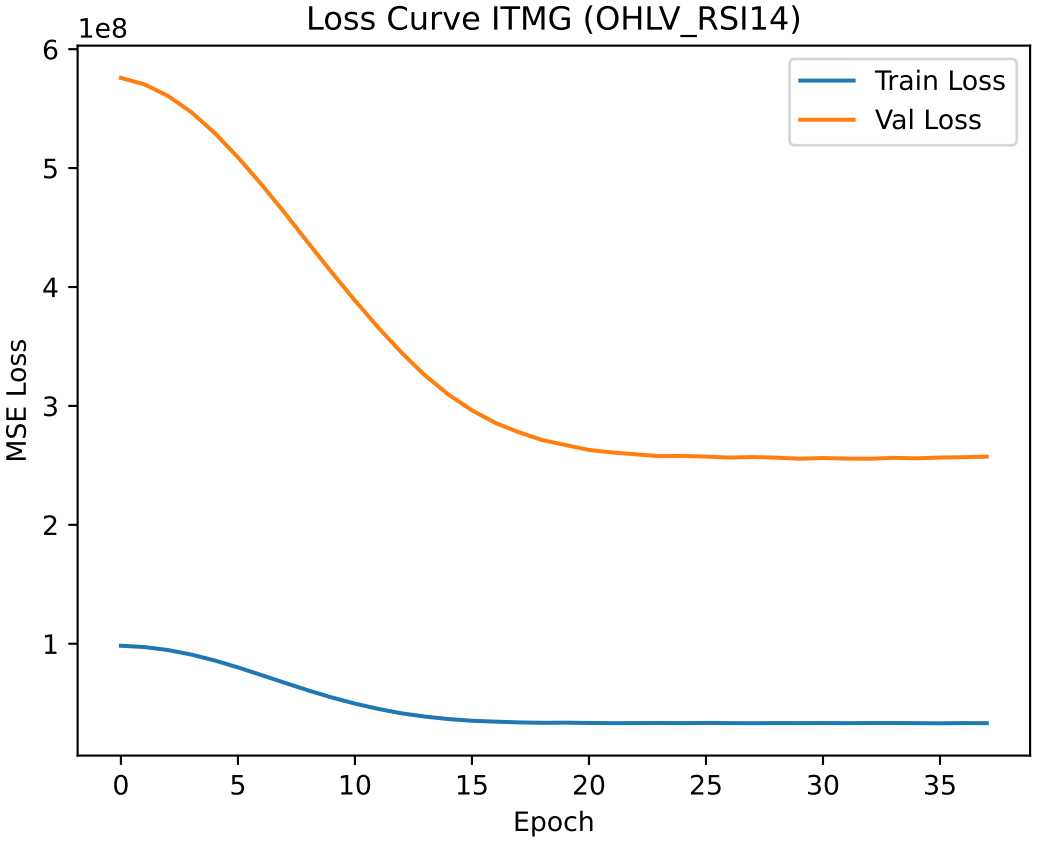
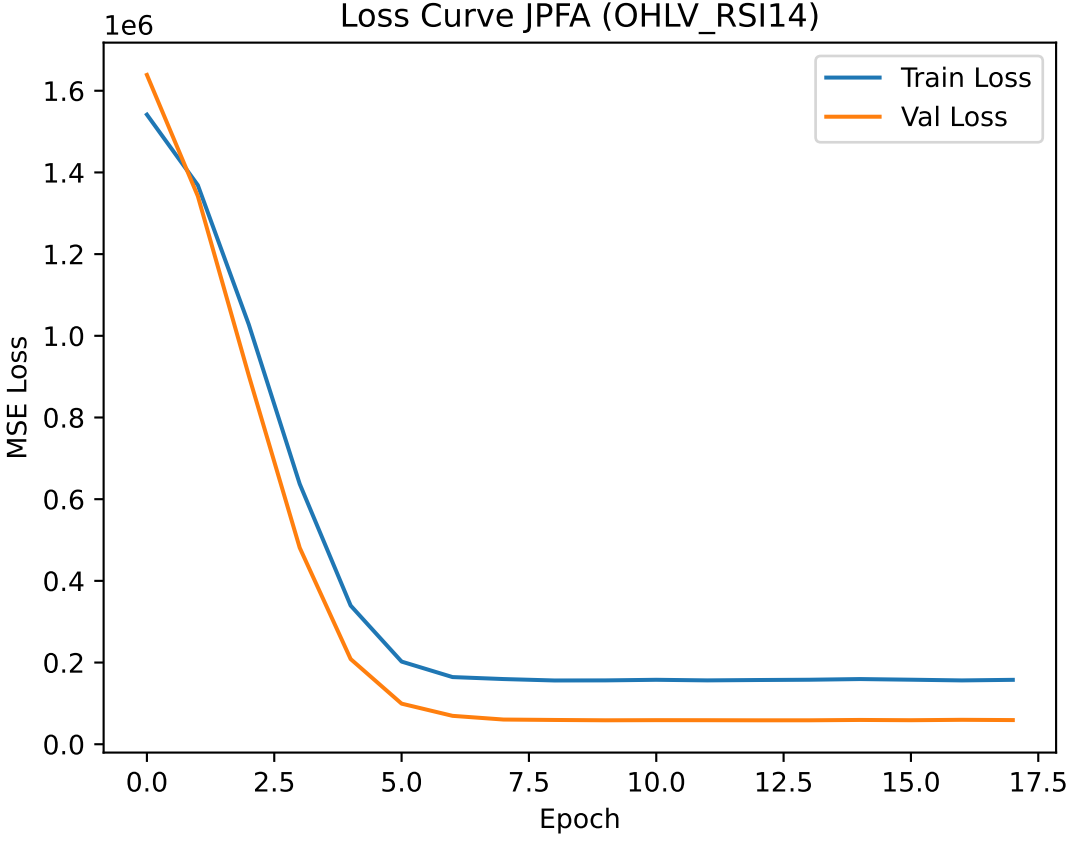
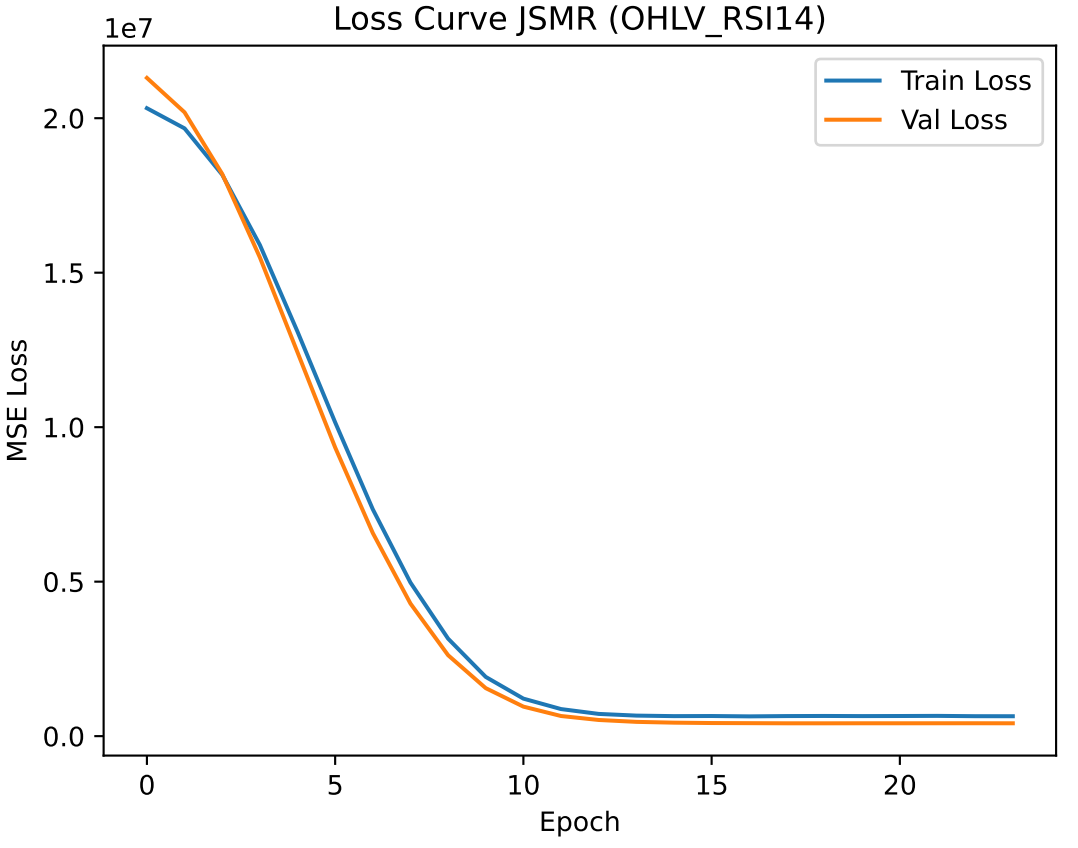
10
15
20
25
30

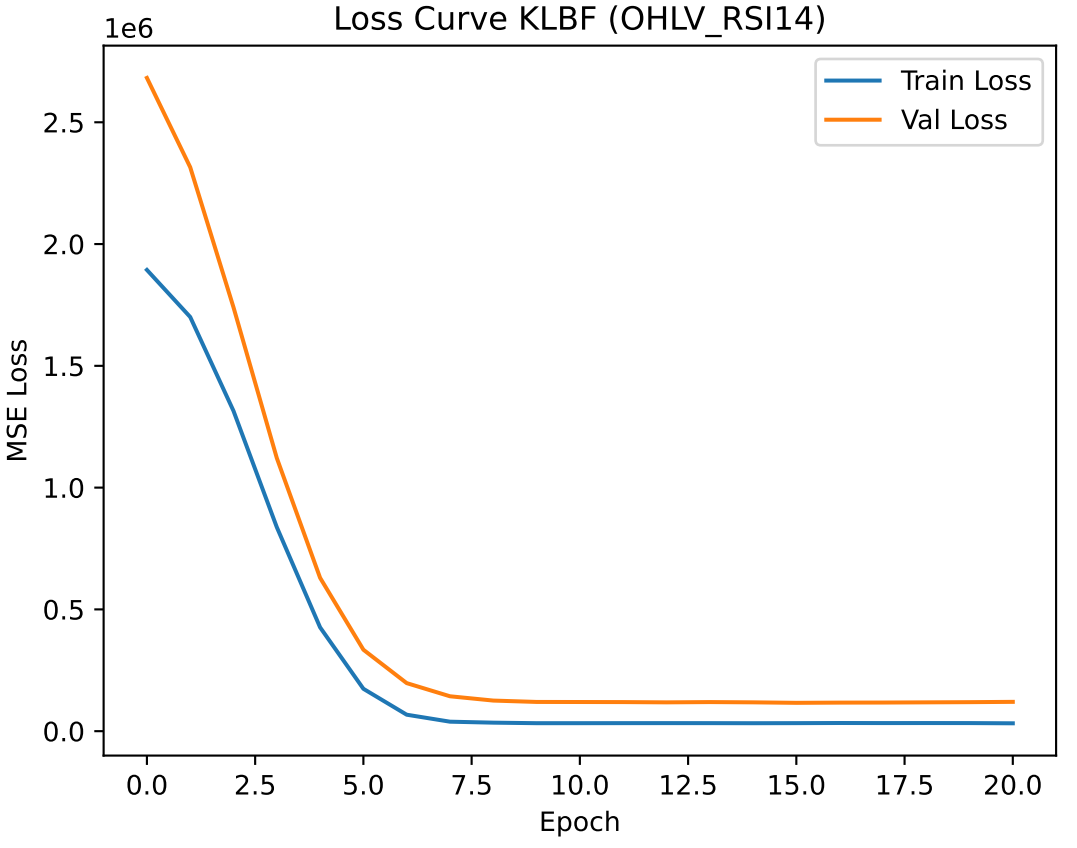

Loss Curve INKP (OHLV_RSI14)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
1
2
3
4
5
6
7

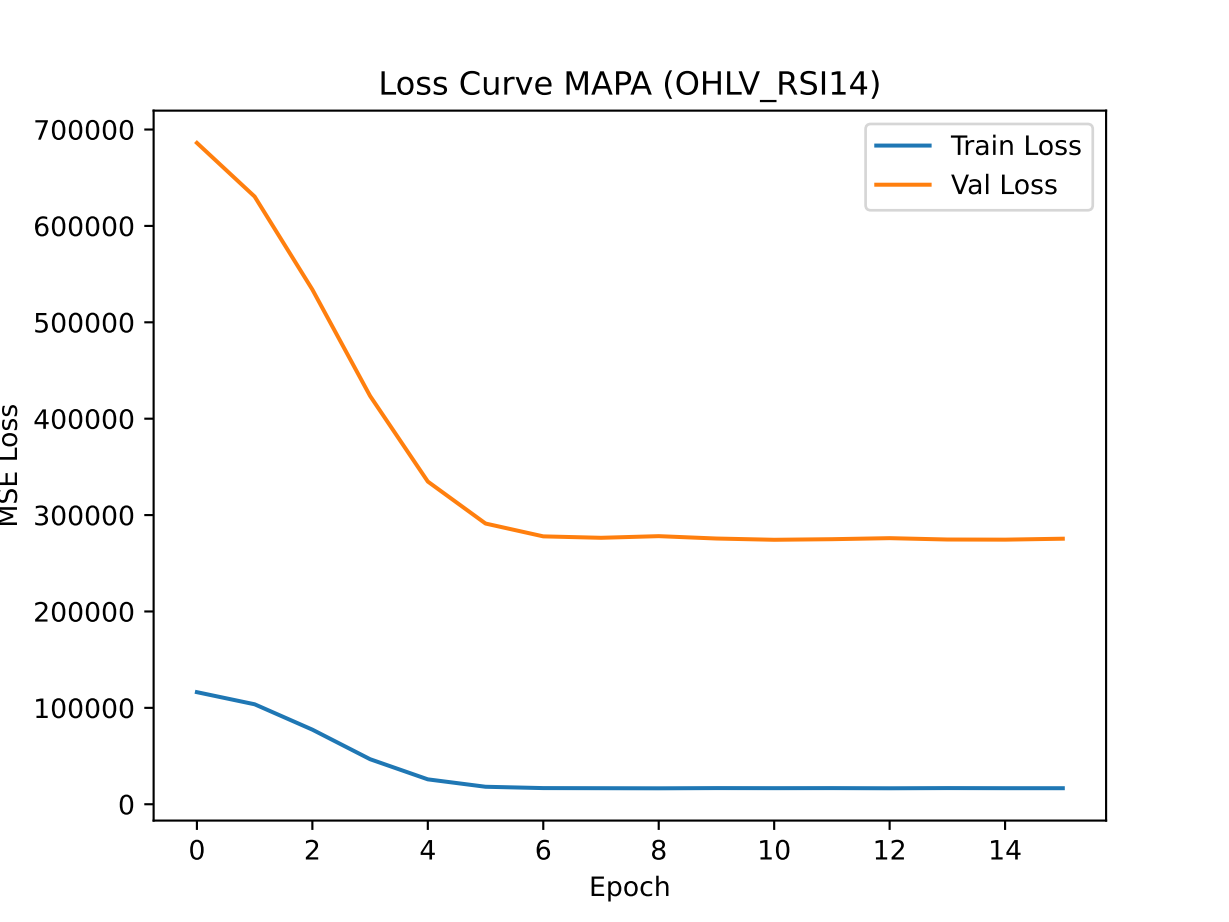

Loss Curve ISAT (OHLV_RSI14)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

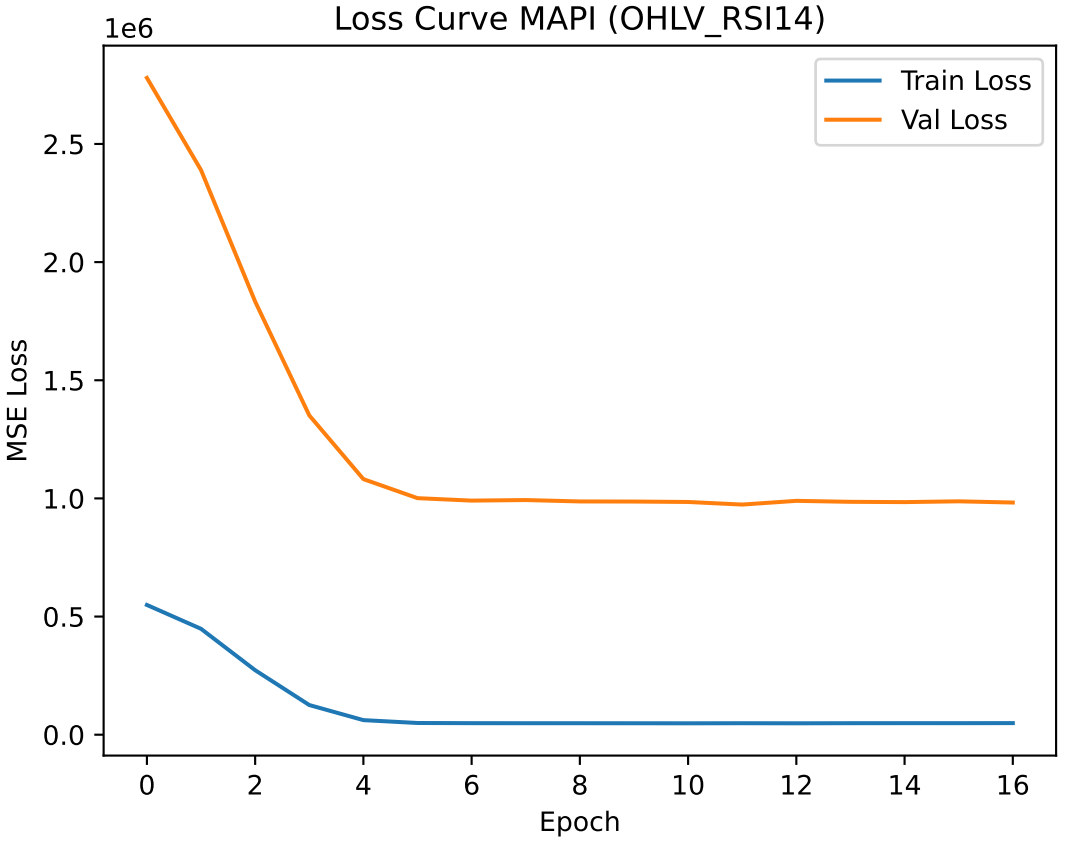

Loss Curve ITMG (OHLV_RSI14)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

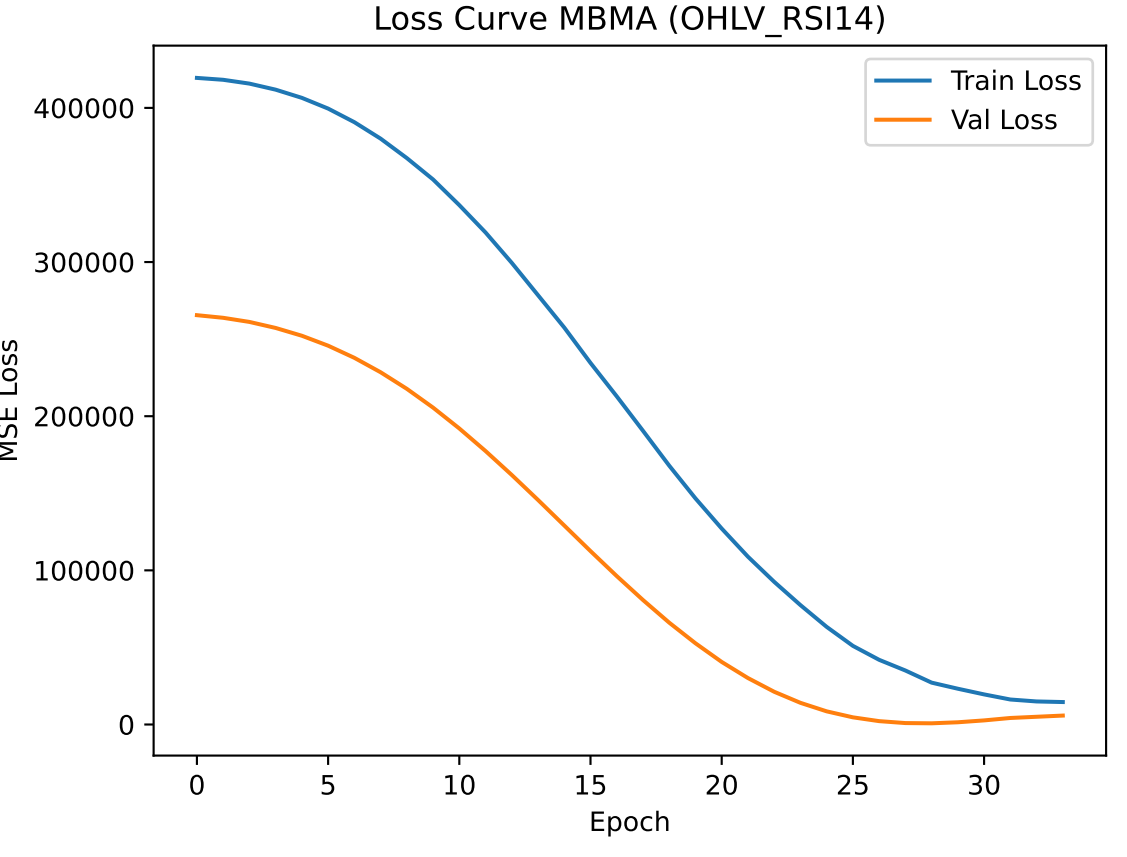

Loss Curve JPFA (OHLV_RSI14)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

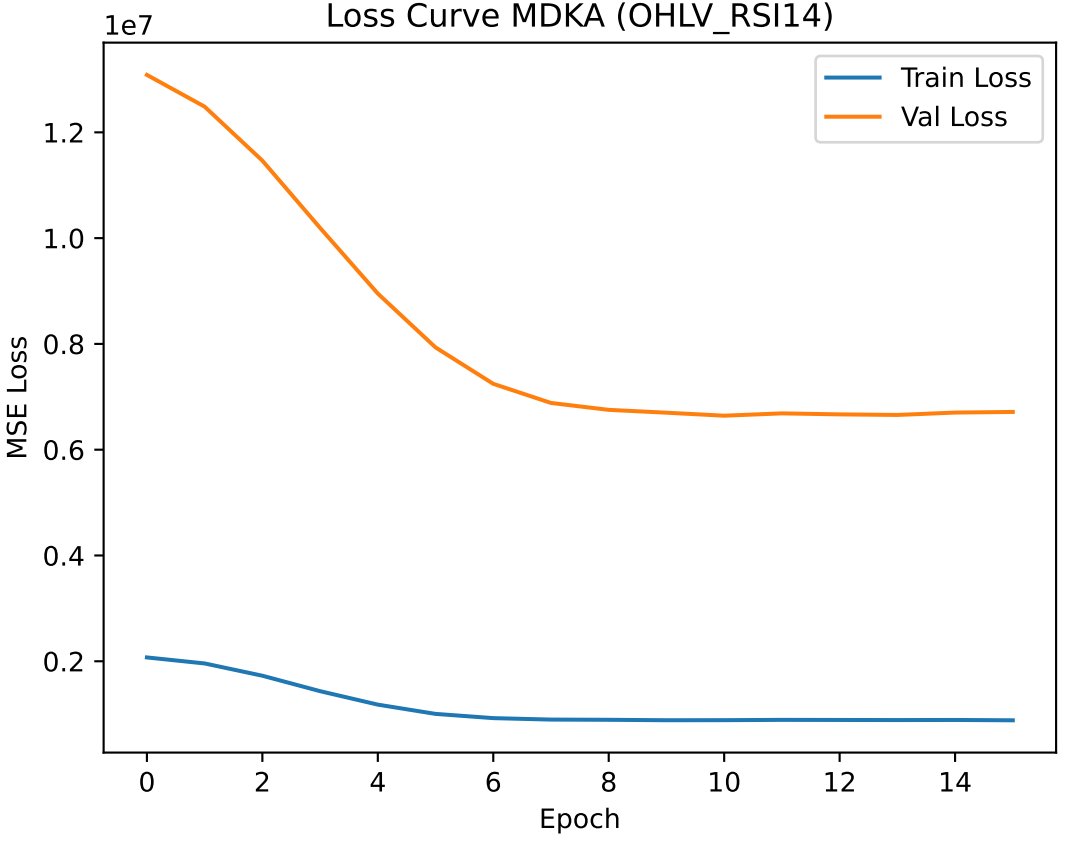

Loss Curve JSMR (OHLV_RSI14)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
Epoch

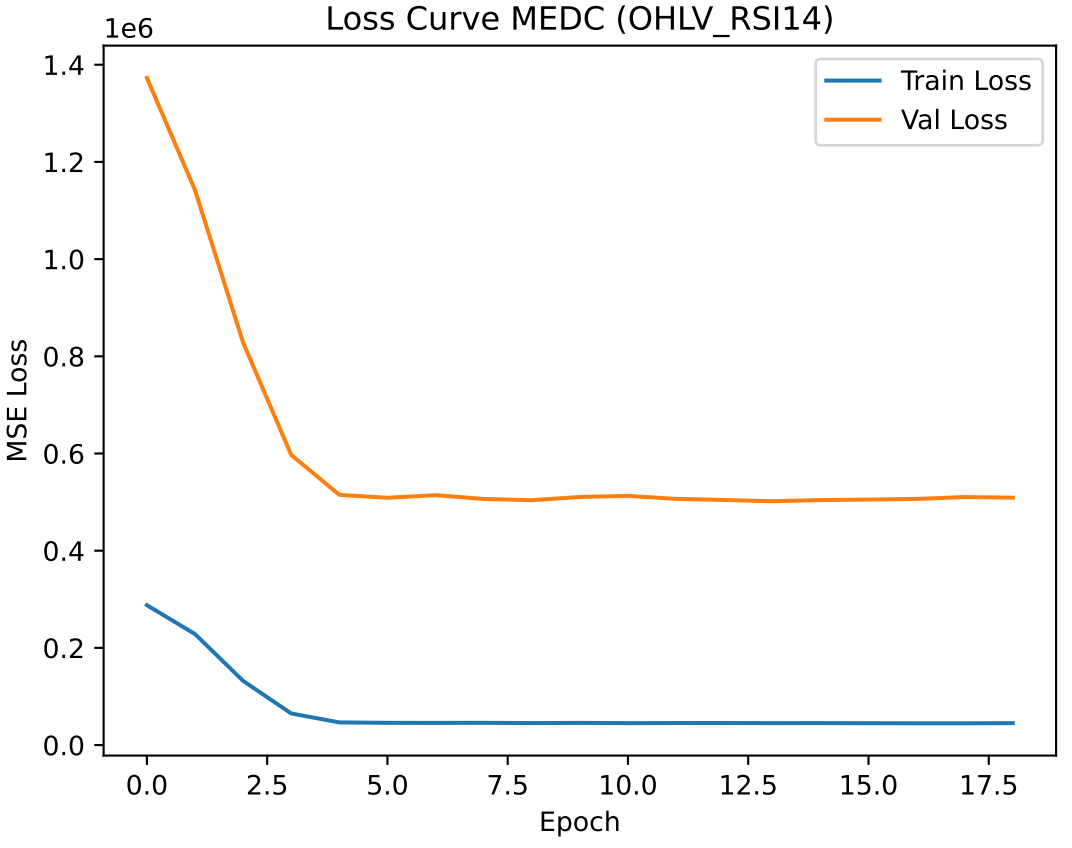

Loss Curve KLBF (OHLV_RSI14)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

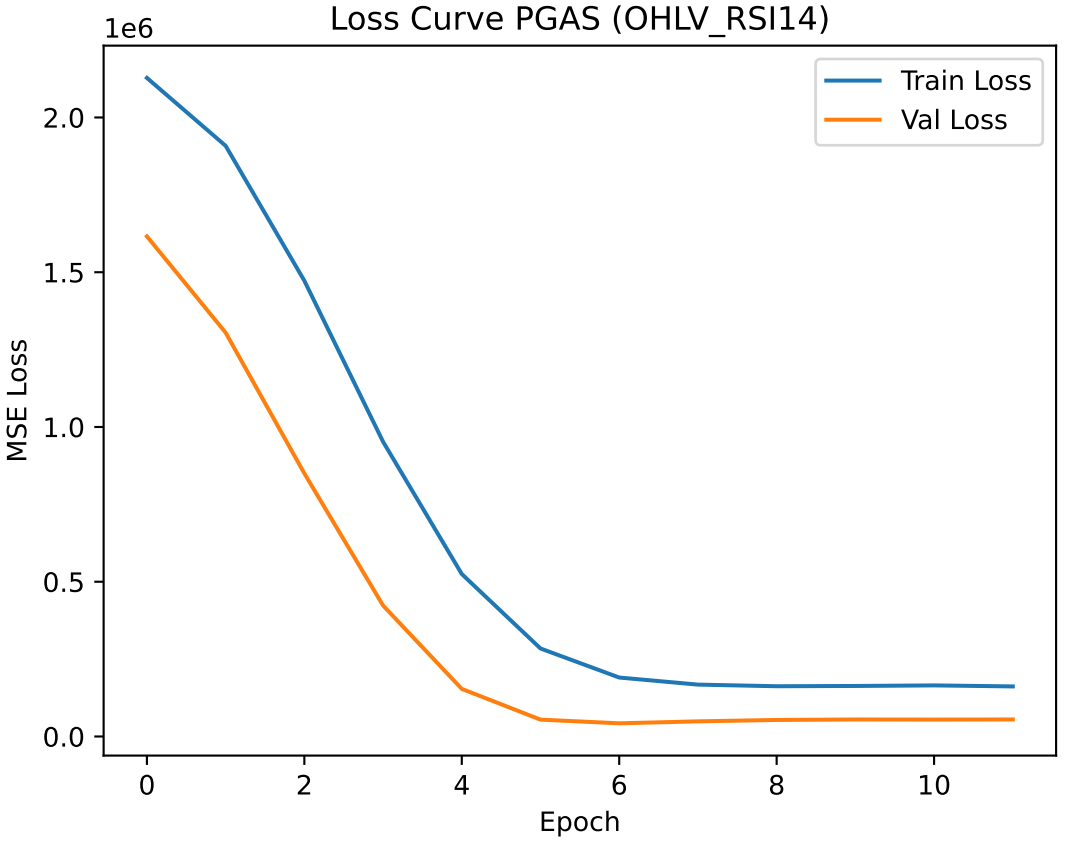

Loss Curve MAPA (OHLV_RSI14)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12
14

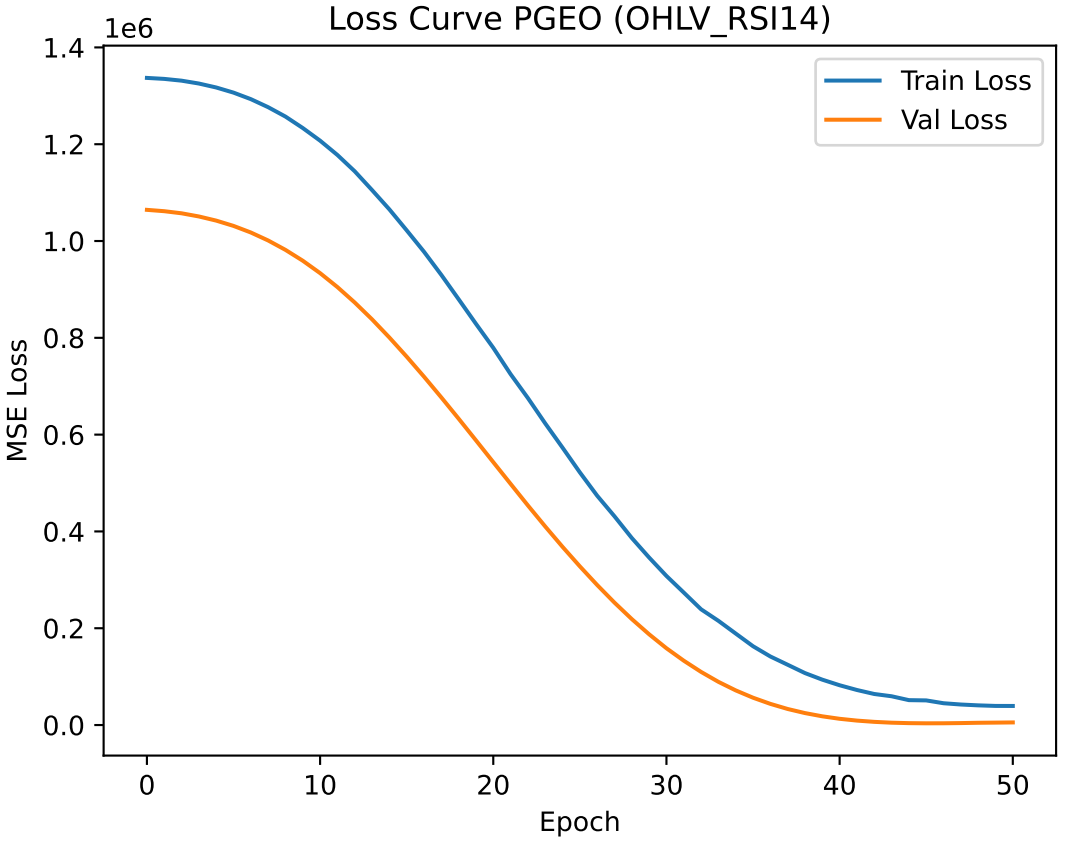

Loss Curve MAPI (OHLV_RSI14)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
16
Epoch

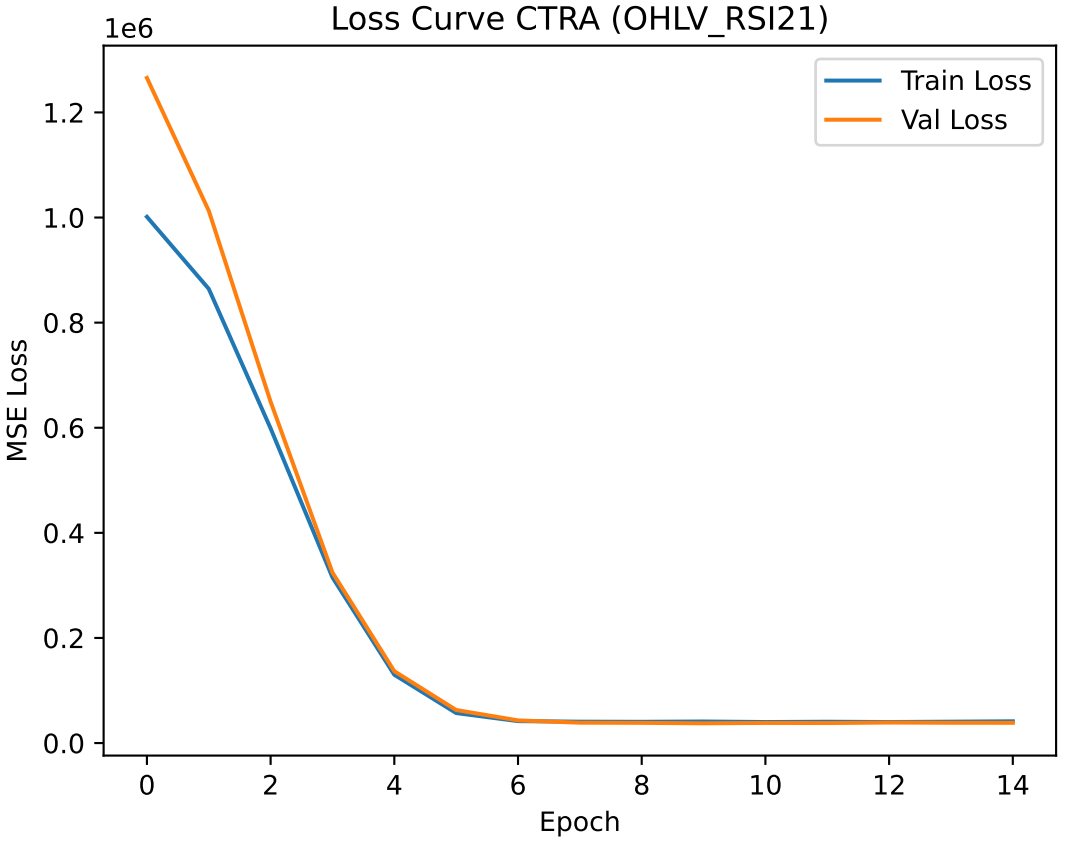

Loss Curve MBMA (OHLV_RSI14)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
Epoch

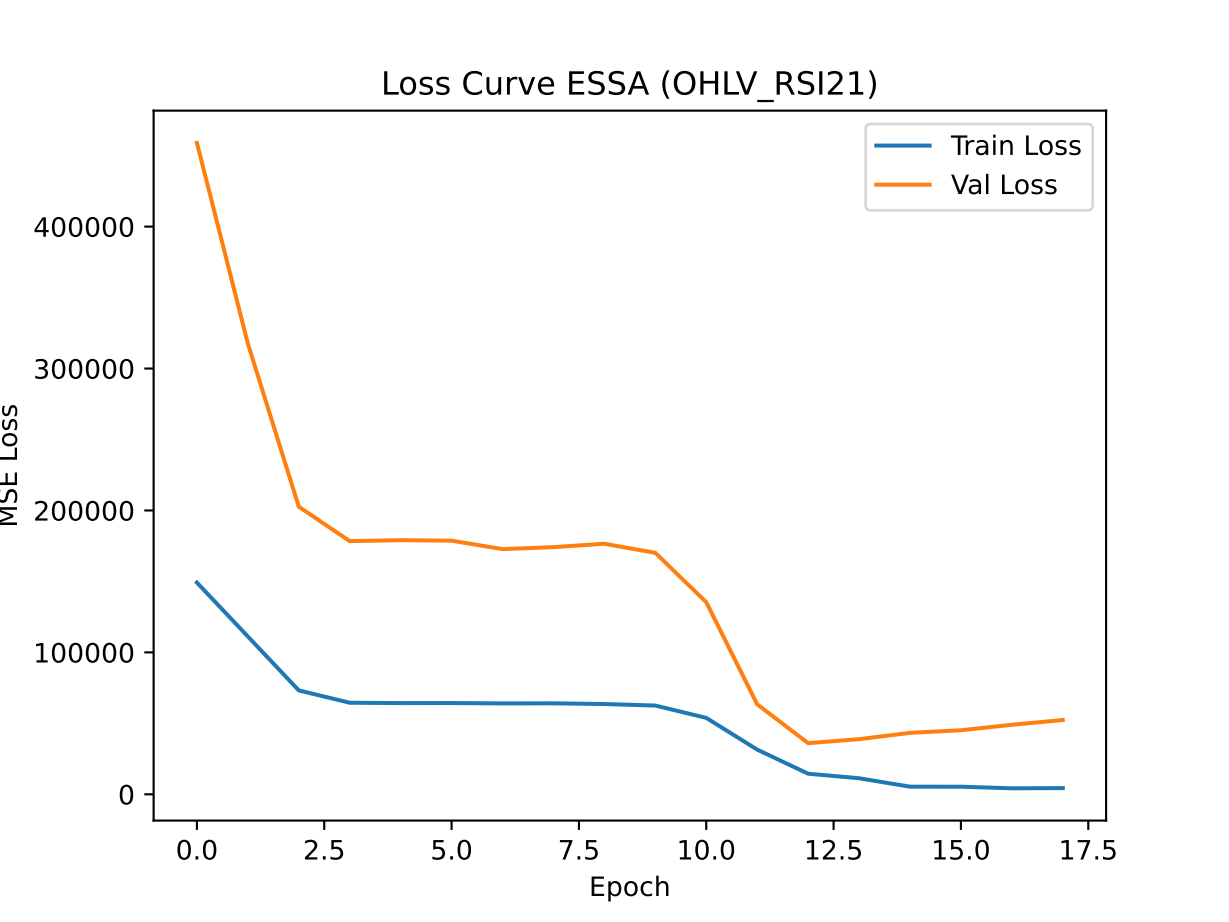

Loss Curve MDKA (OHLV_RSI14)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0
2
4
6
8
10
12
14
Epoch

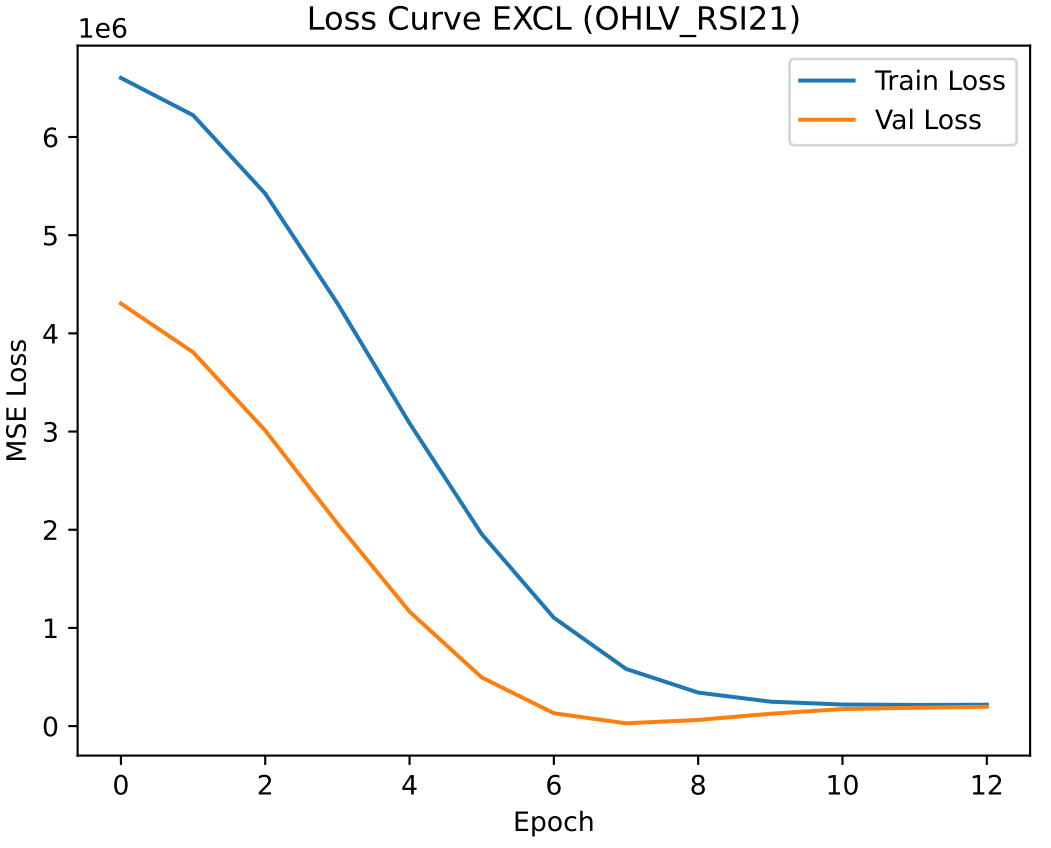

Loss Curve MEDC (OHLV_RSI14)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

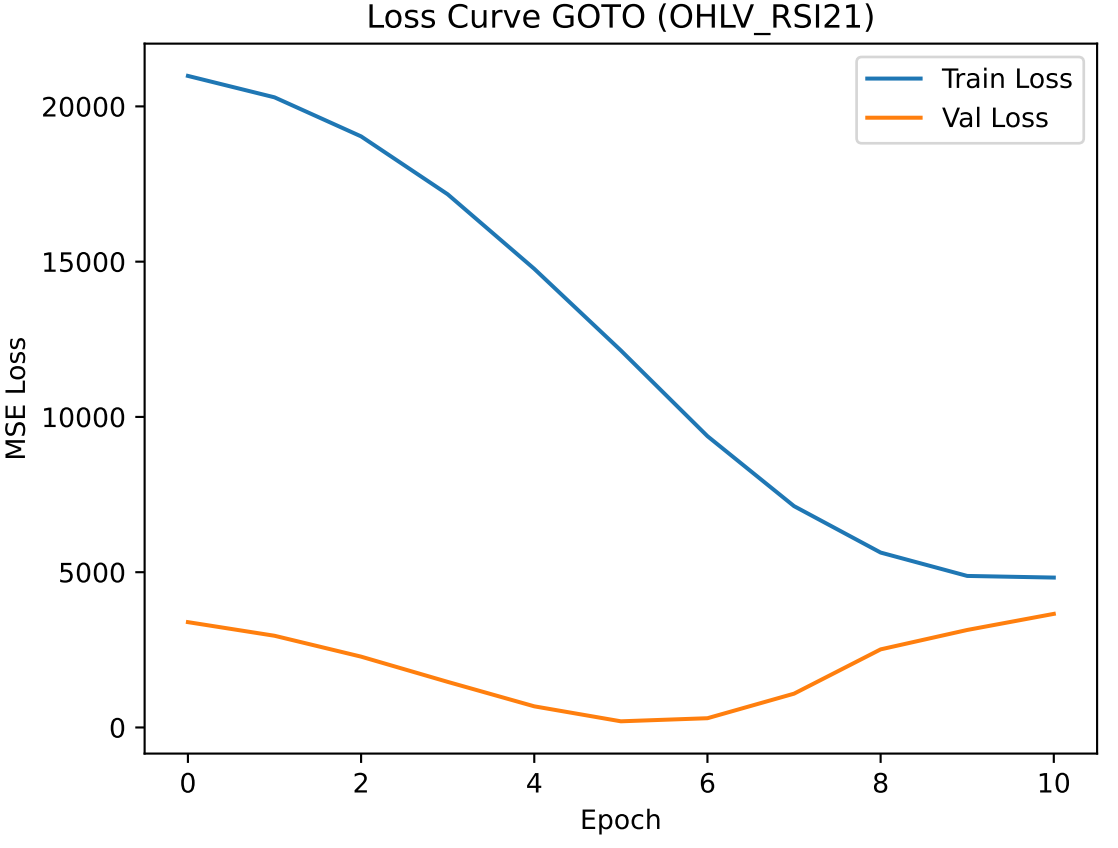

Loss Curve PGAS (OHLV_RSI14)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

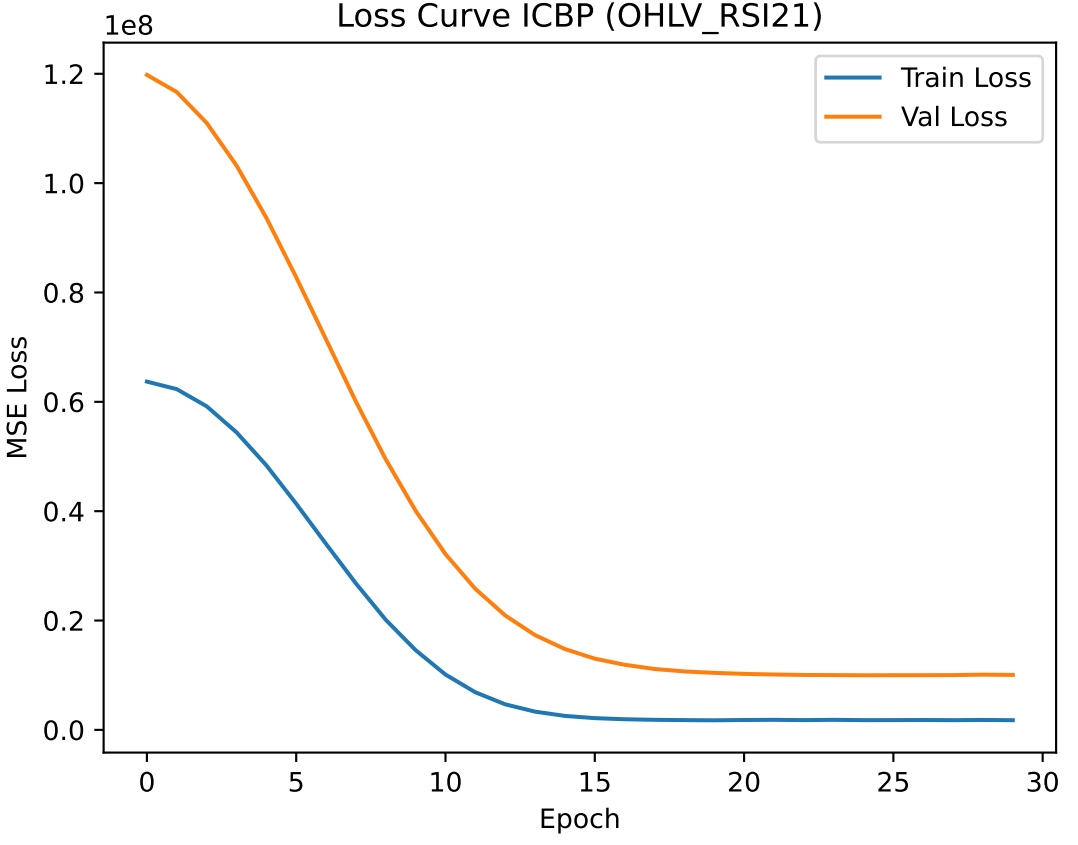

Loss Curve PGEO (OHLV_RSI14)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

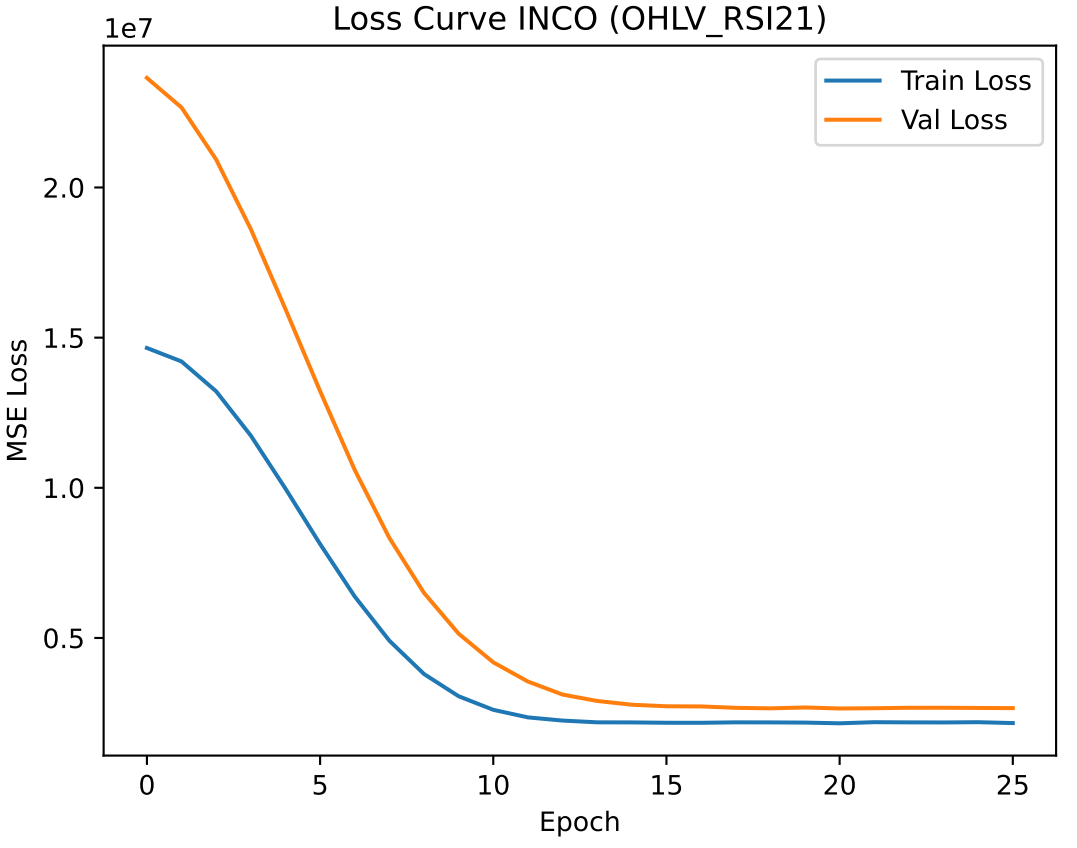

Loss Curve CTRA (OHLV_RSI21)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
2
4
6
8
10
12
14

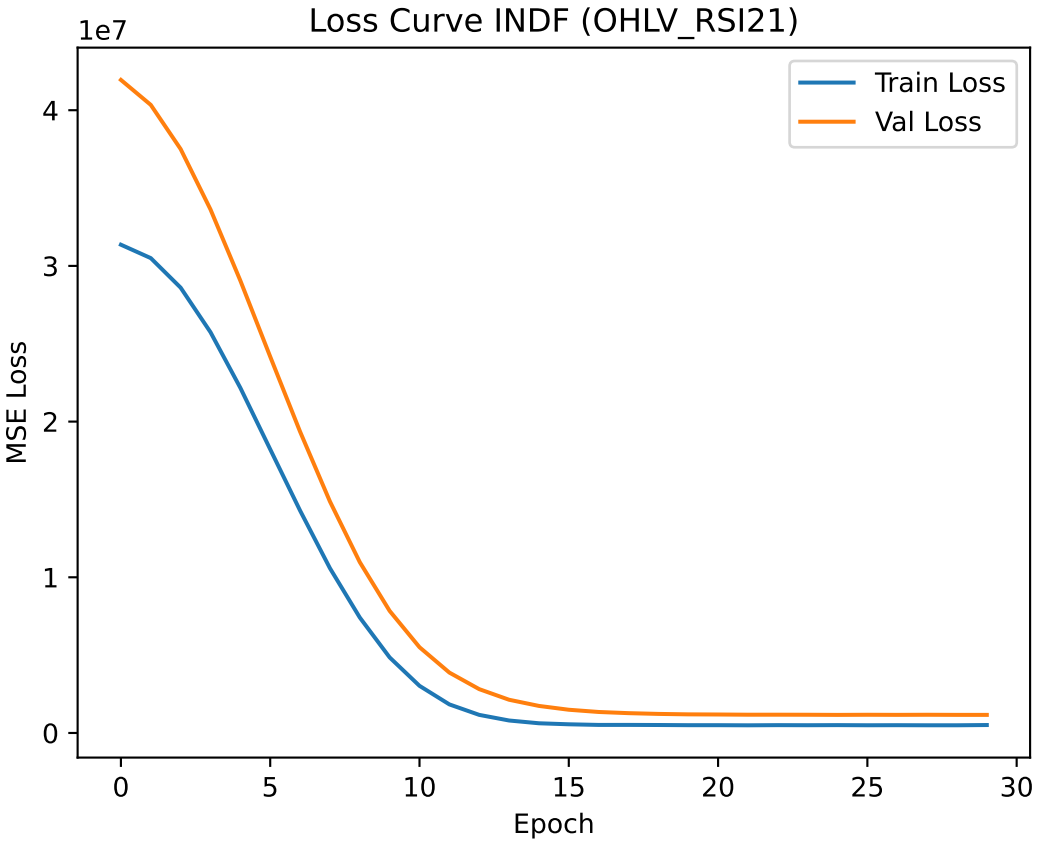

Loss Curve ESSA (OHLV_RSI21)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

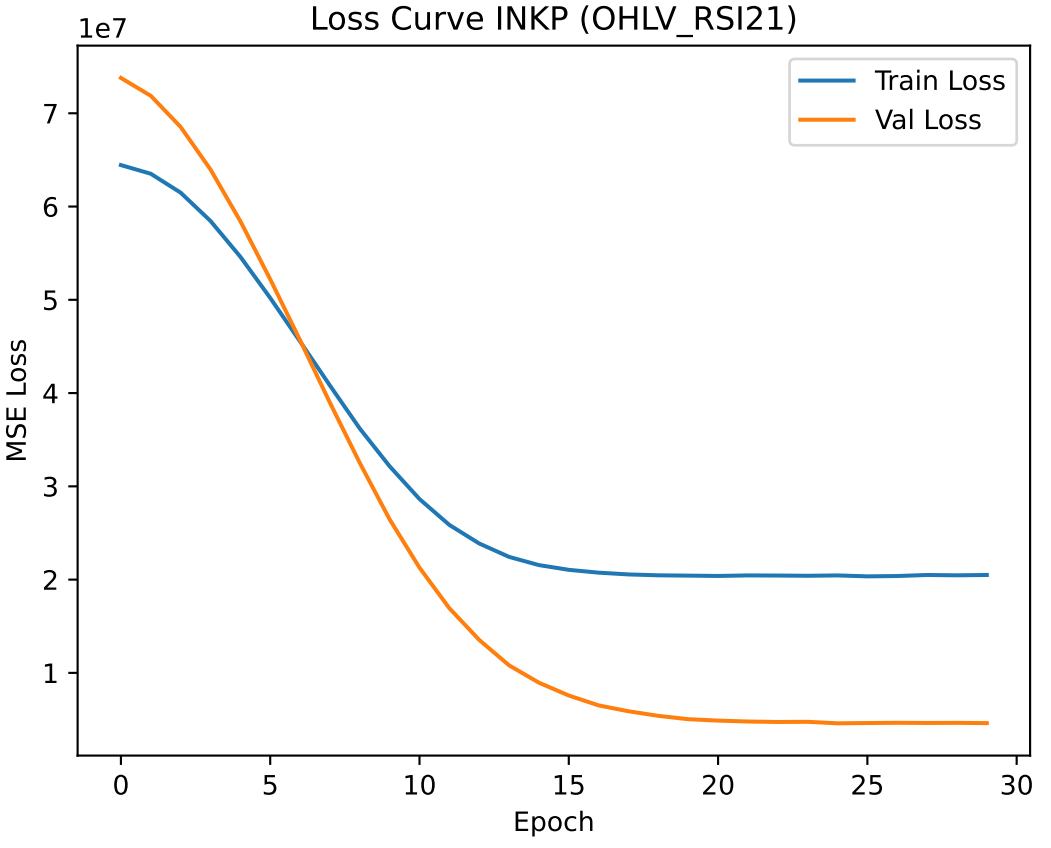

Loss Curve EXCL (OHLV_RSI21)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12


Loss Curve GOTO (OHLV_RSI21)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch


Loss Curve ICBP (OHLV_RSI21)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch


Loss Curve INCO (OHLV_RSI21)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
25
Epoch


Loss Curve INDF (OHLV_RSI21)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30


Loss Curve INKP (OHLV_RSI21)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
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30
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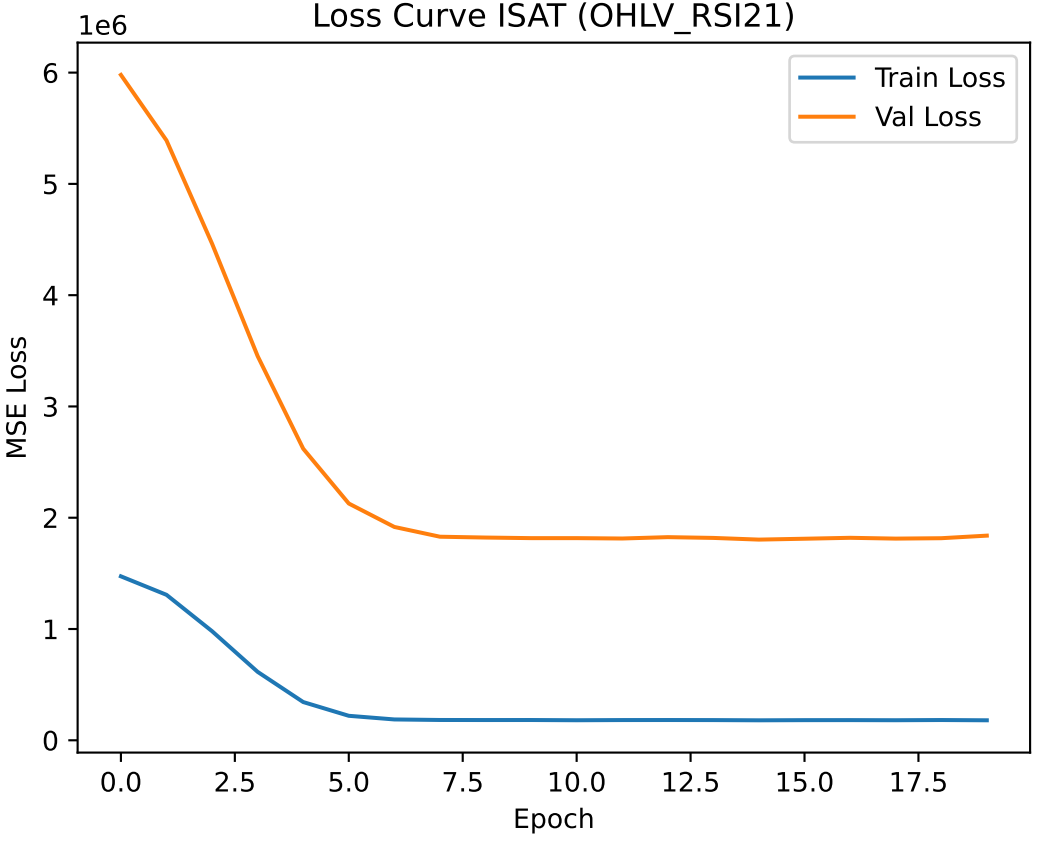
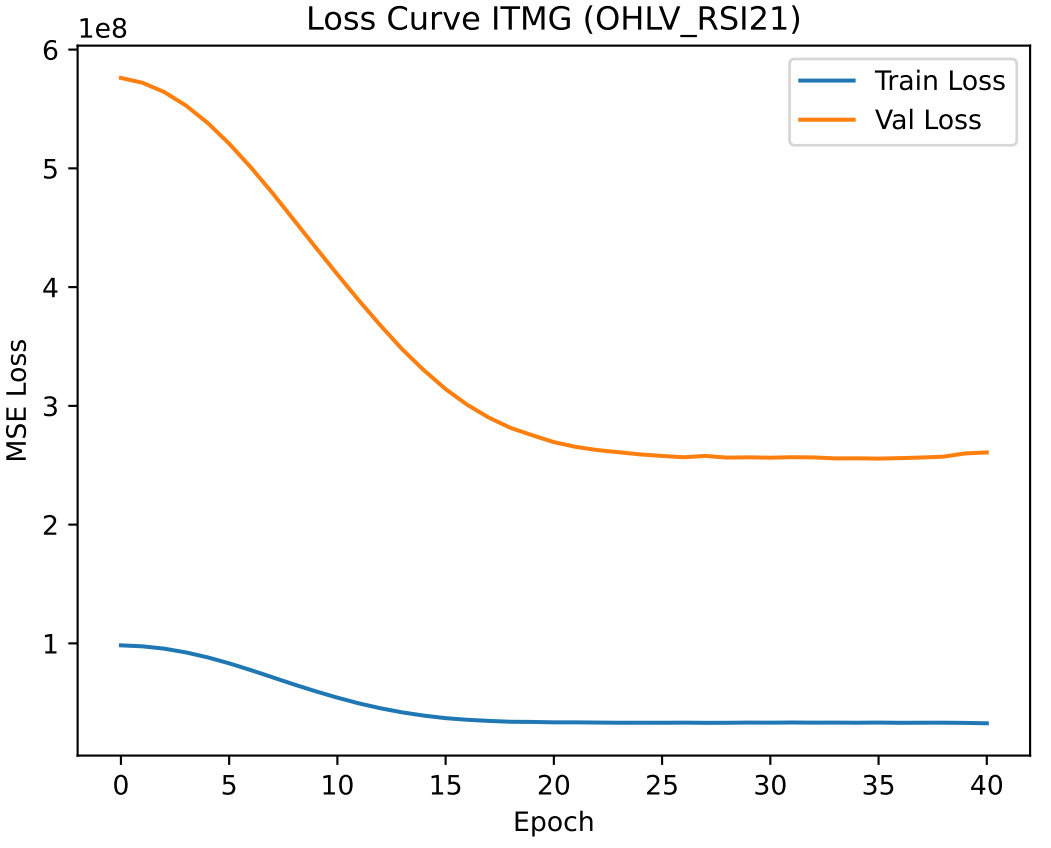
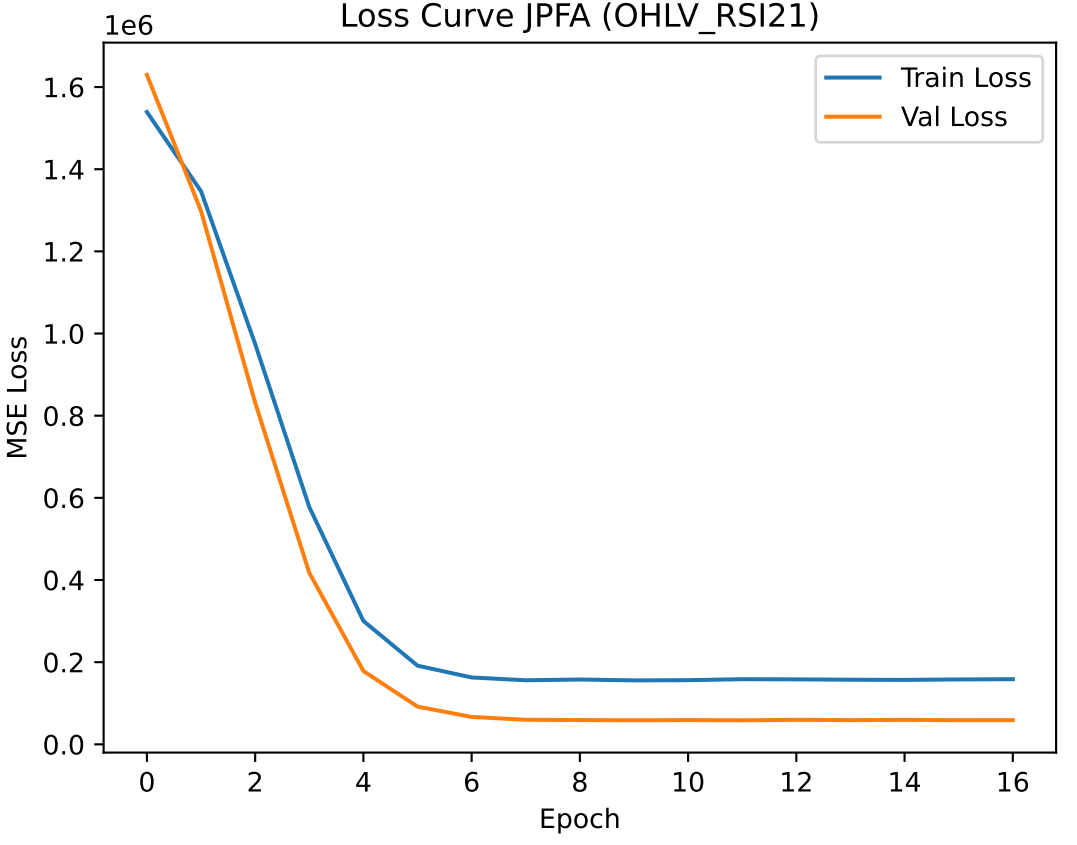
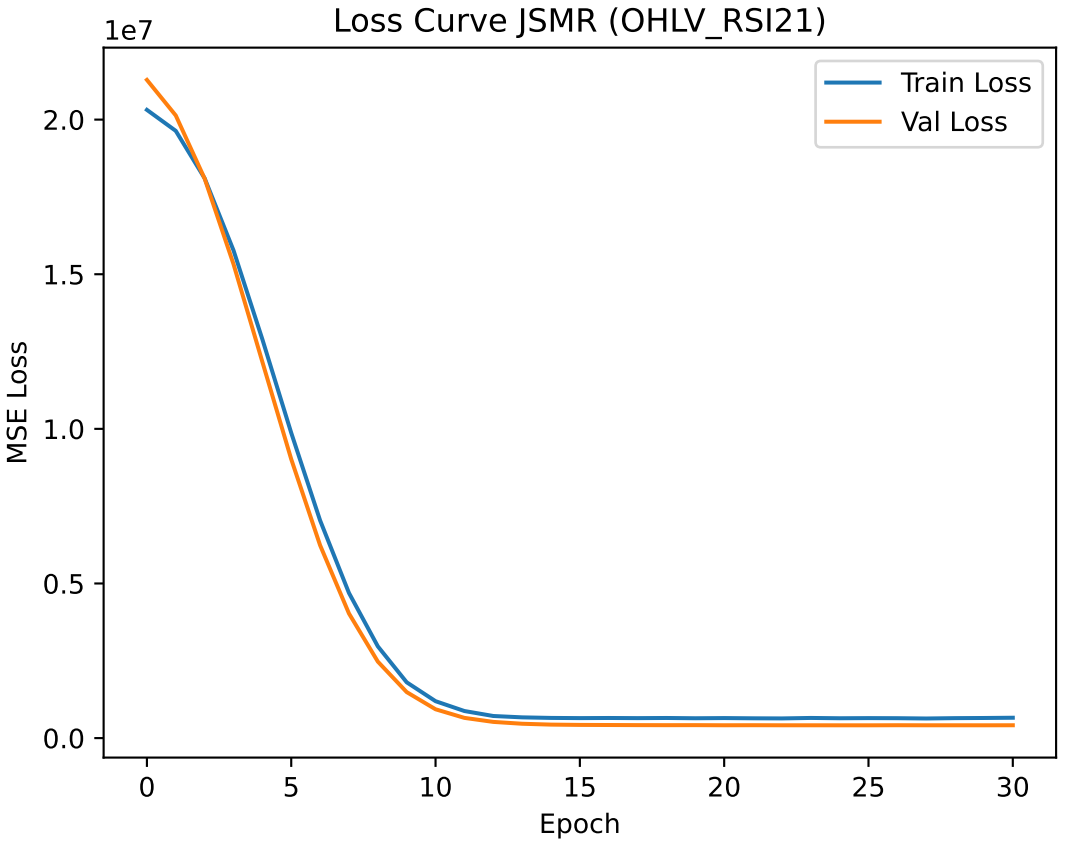
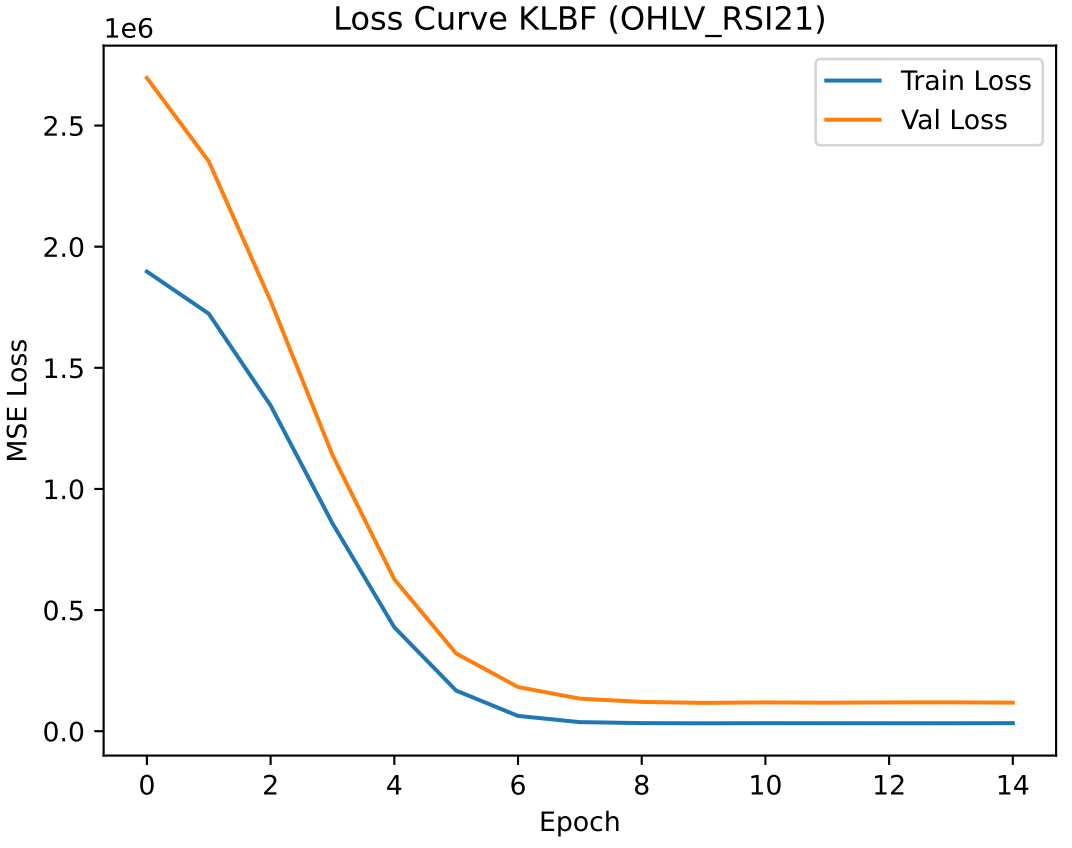
4
5
6
7

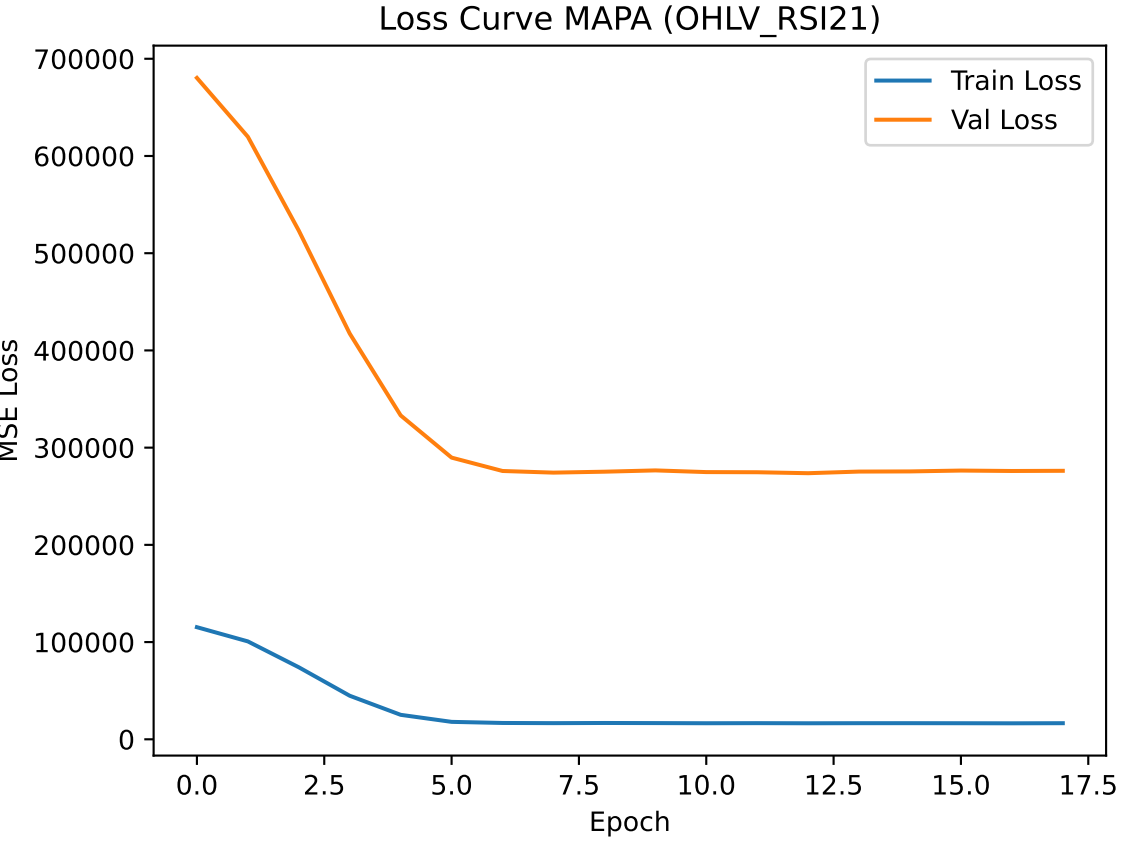

Loss Curve ISAT (OHLV_RSI21)
1e6
6
5
4
3
2
1
0
MSE Loss
Train Loss
Val Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

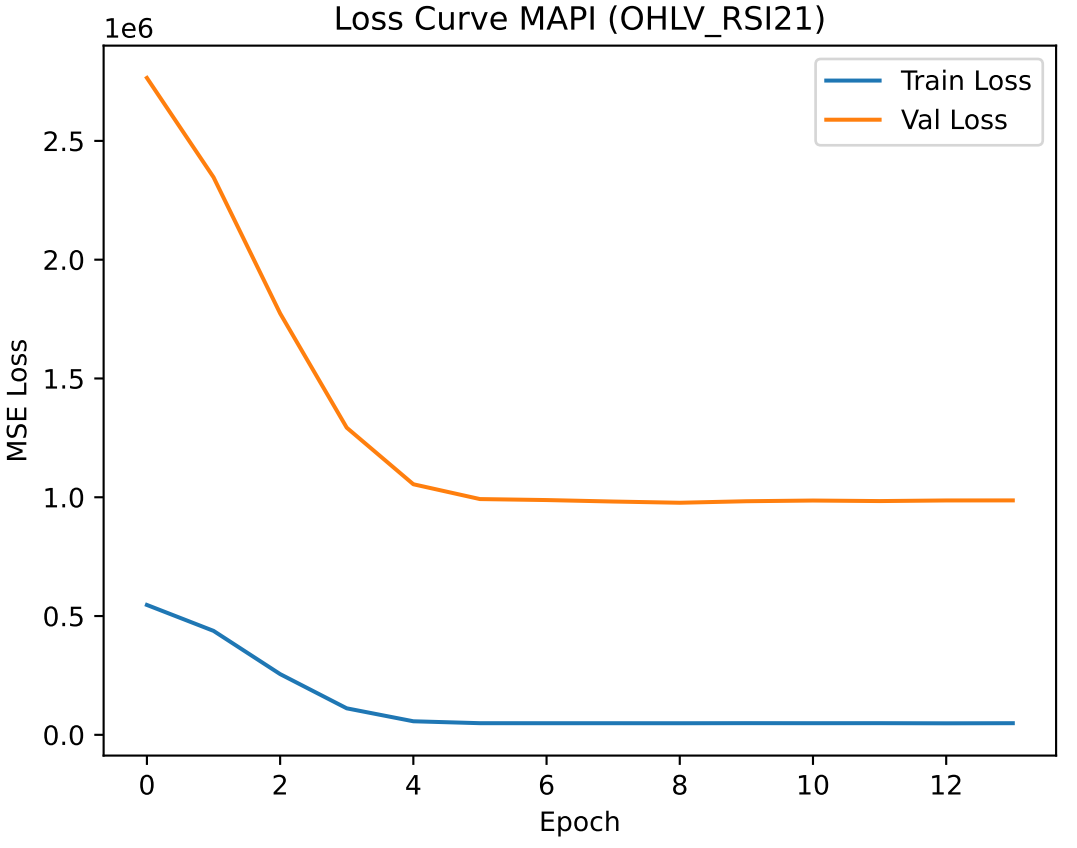

Loss Curve ITMG (OHLV_RSI21)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
40
Epoch

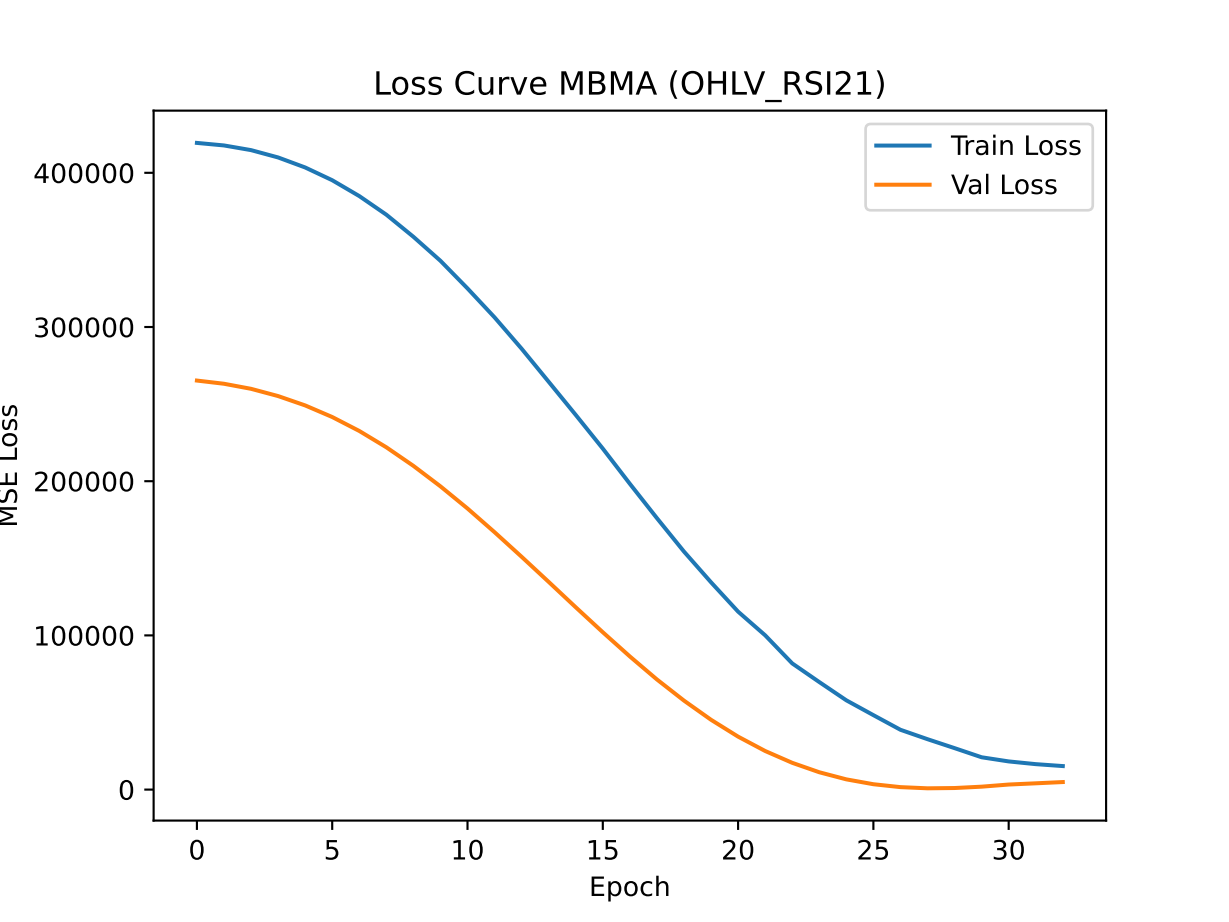

Loss Curve JPFA (OHLV_RSI21)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14
16

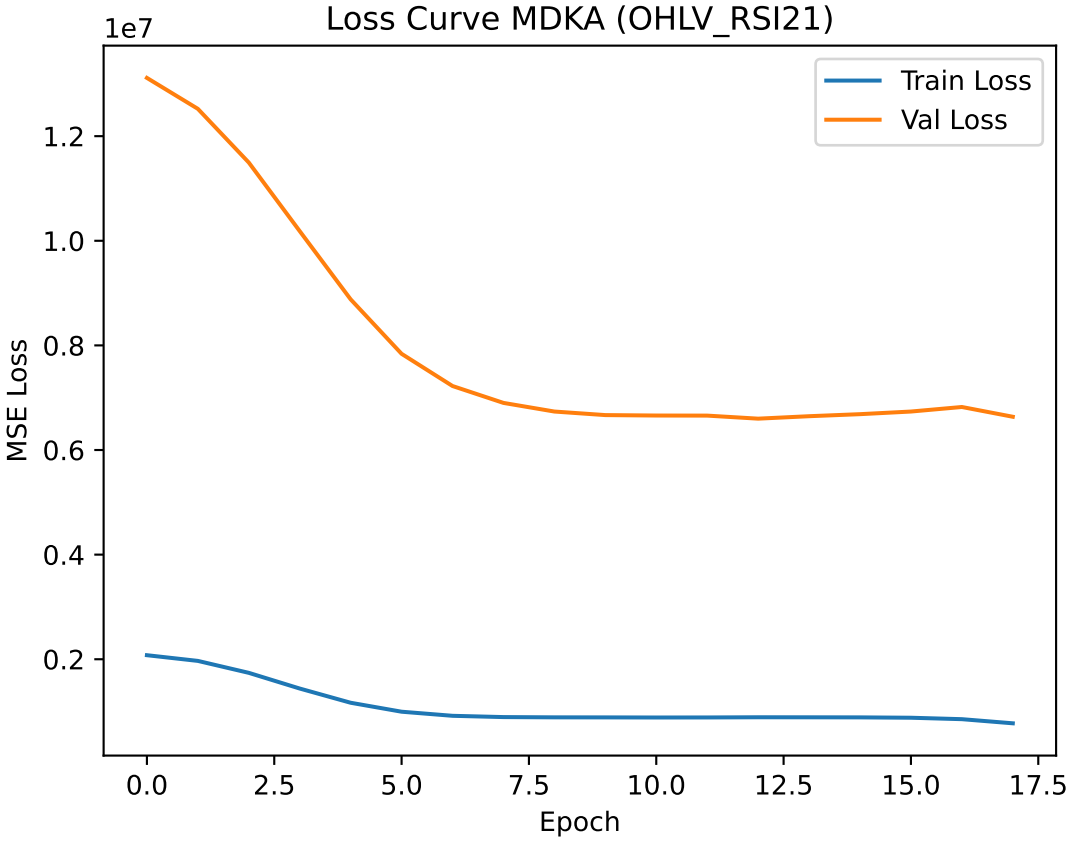

Loss Curve JSMR (OHLV_RSI21)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30
Epoch

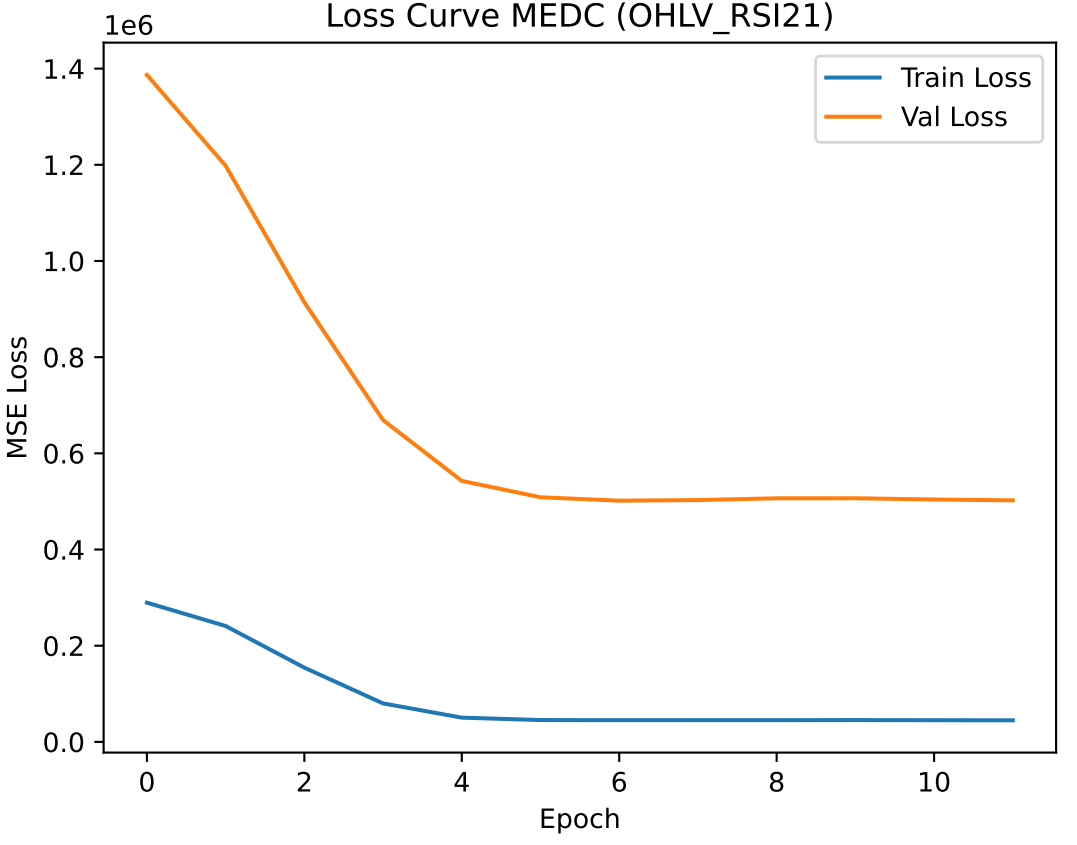

Loss Curve KLBF (OHLV_RSI21)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
14
Epoch

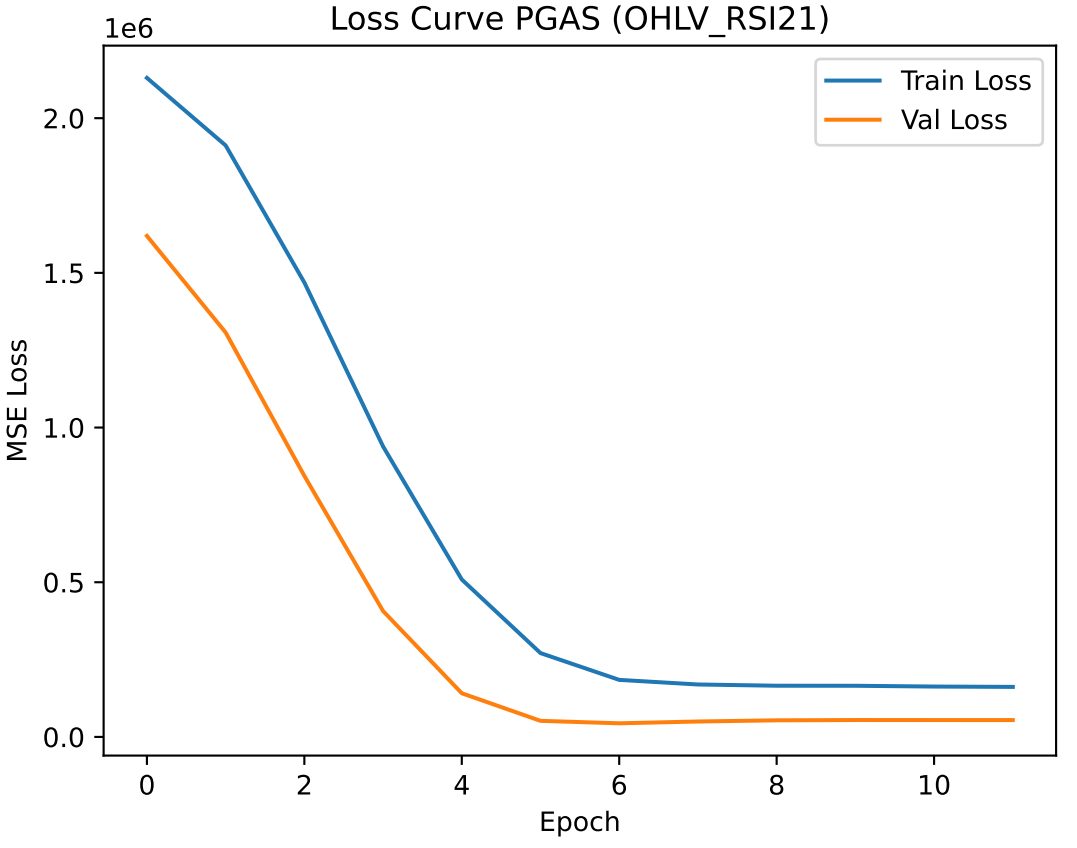

Loss Curve MAPA (OHLV_RSI21)
Train Loss
Val Loss
MSE Loss
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

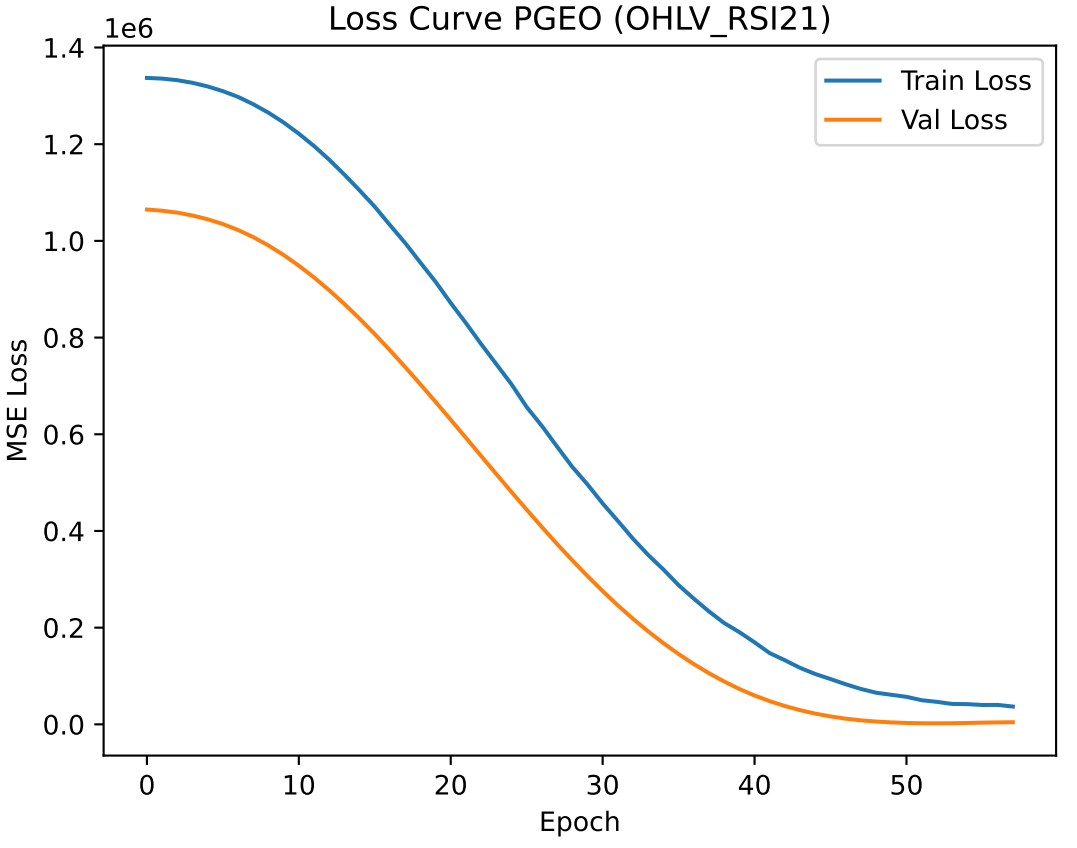

Loss Curve MAPI (OHLV_RSI21)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch

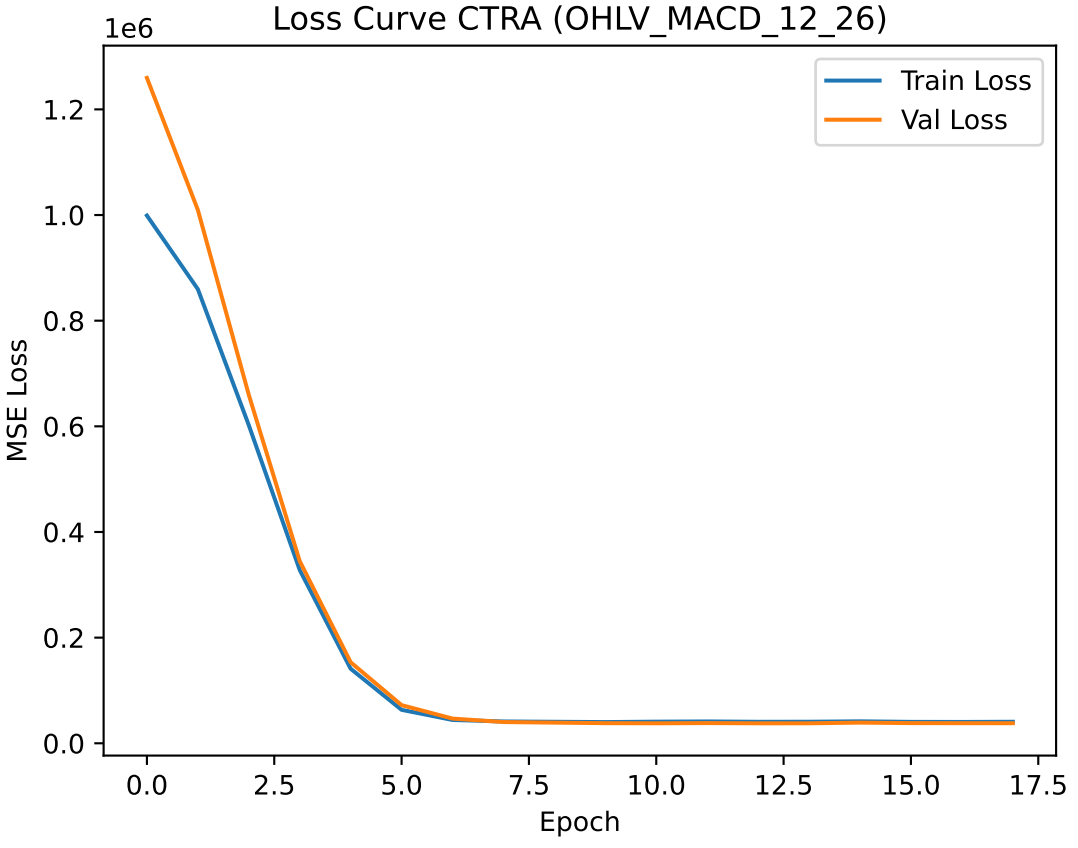

Loss Curve MBMA (OHLV_RSI21)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
Epoch

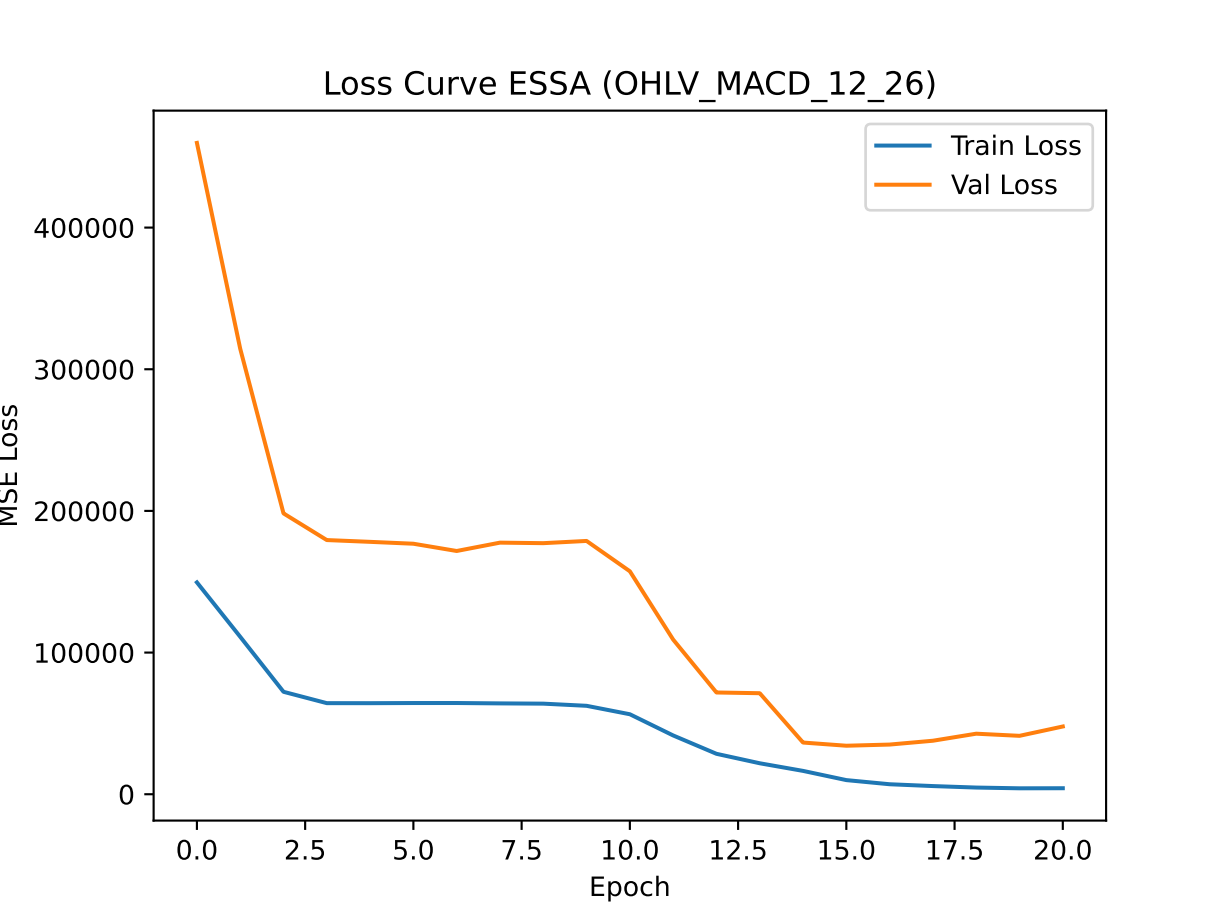

Loss Curve MDKA (OHLV_RSI21)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

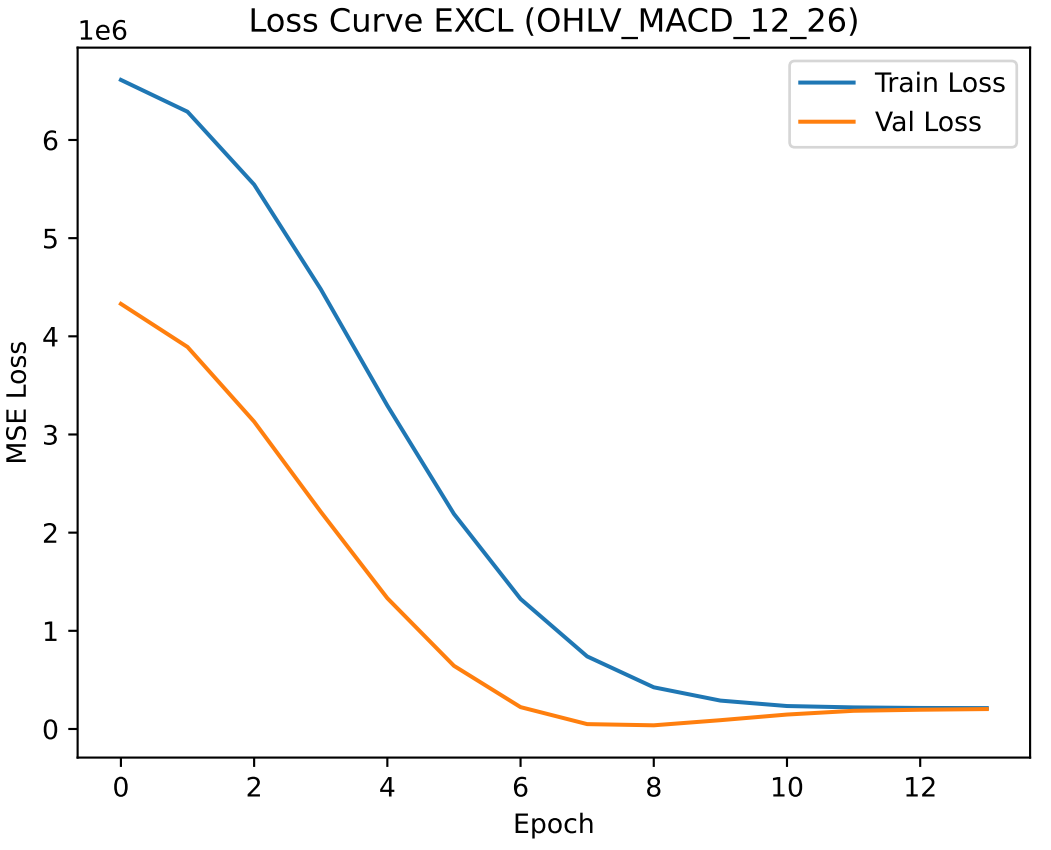

Loss Curve MEDC (OHLV_RSI21)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
Epoch

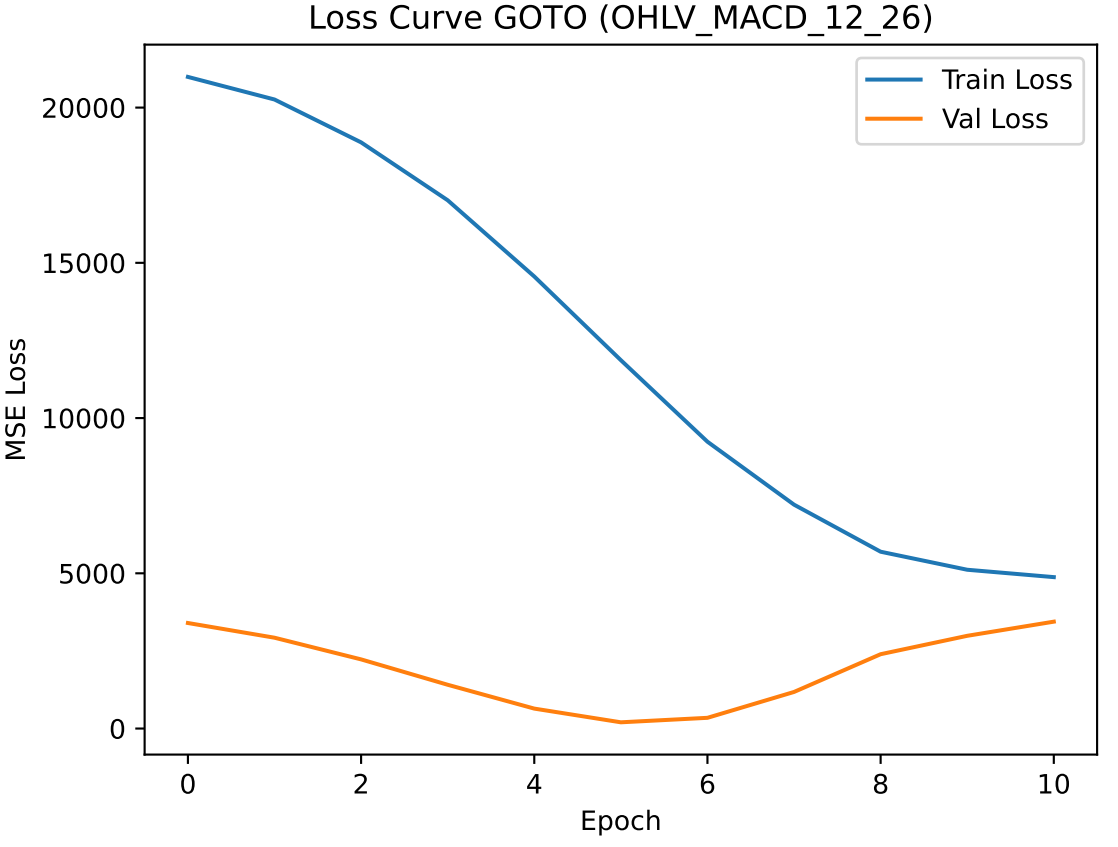

Loss Curve PGAS (OHLV_RSI21)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

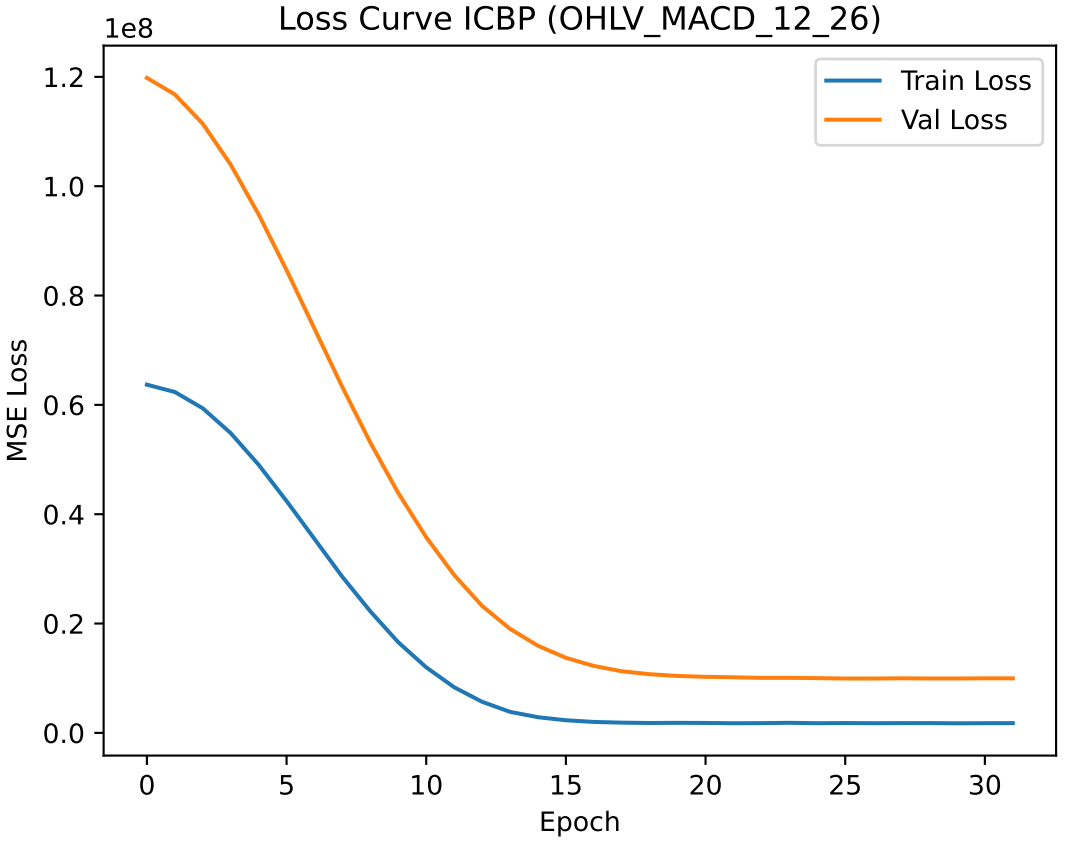

Loss Curve PGEO (OHLV_RSI21)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
10
20
30
40
50
Epoch
Train Loss
Val Loss

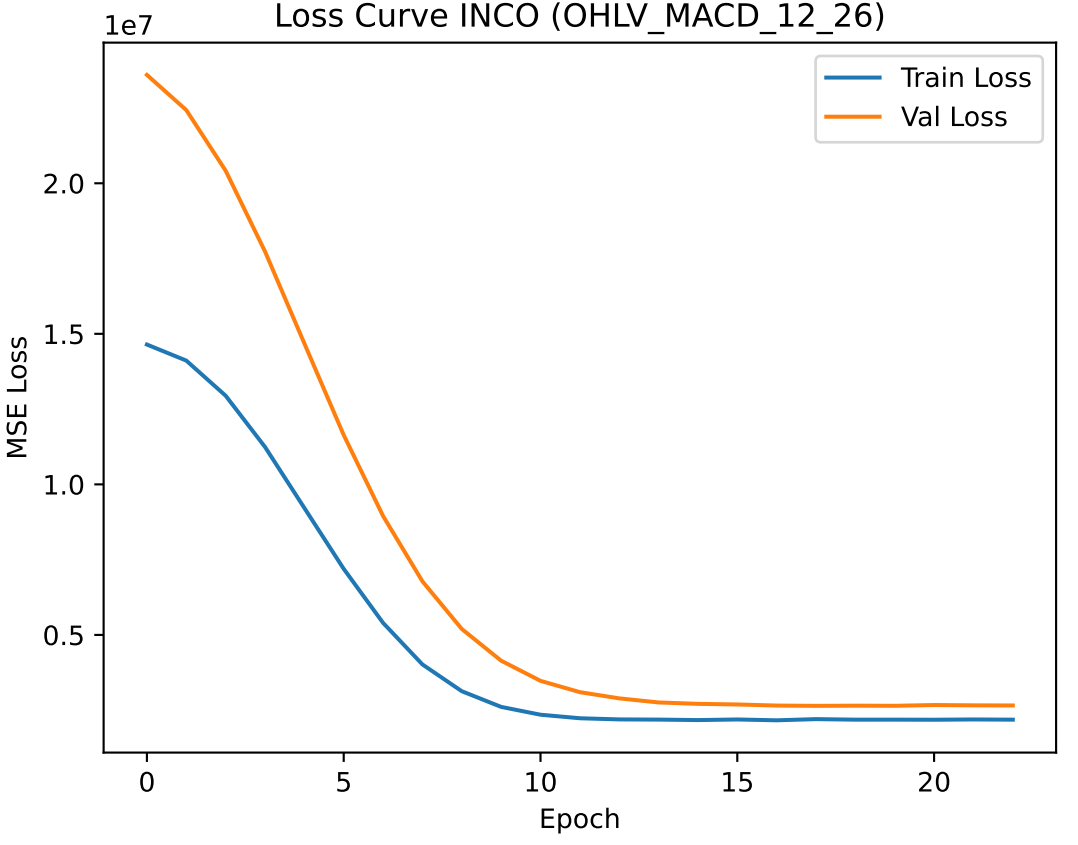

Loss Curve CTRA (OHLV_MACD_12_26)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

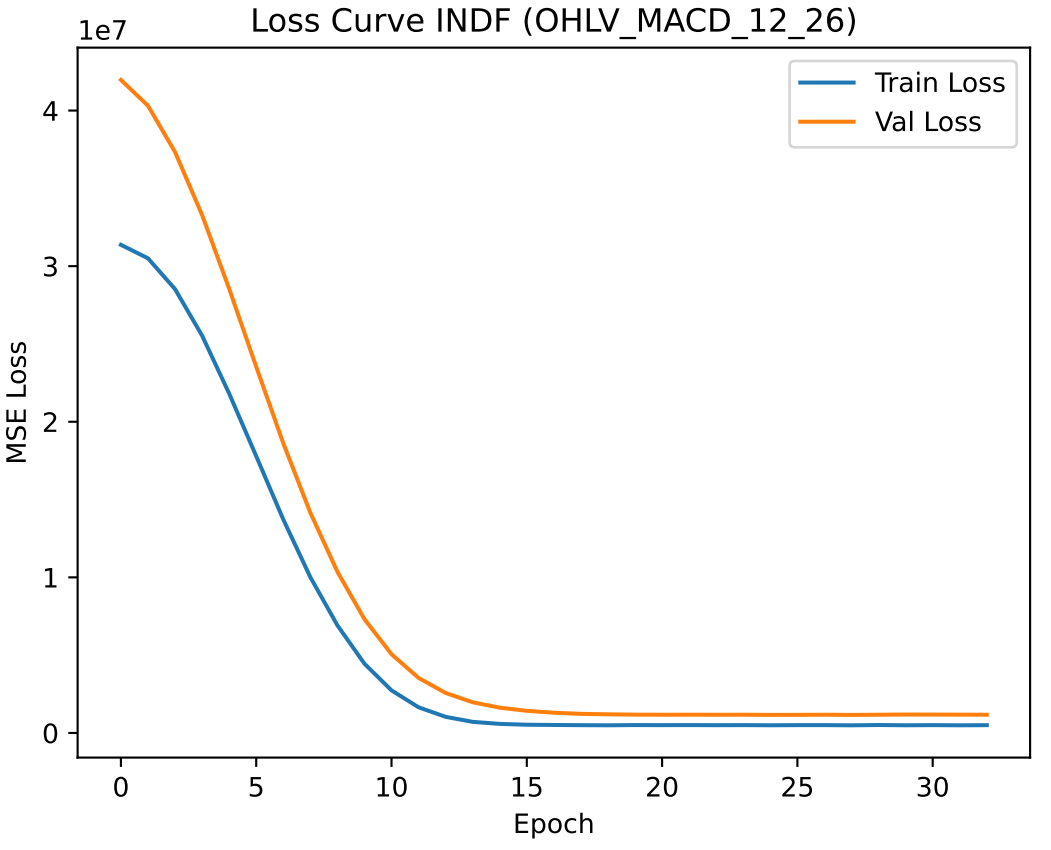

Loss Curve ESSA (OHLV_MACD_12_26)
Train Loss
Val Loss
MSE Loss
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0
Epoch

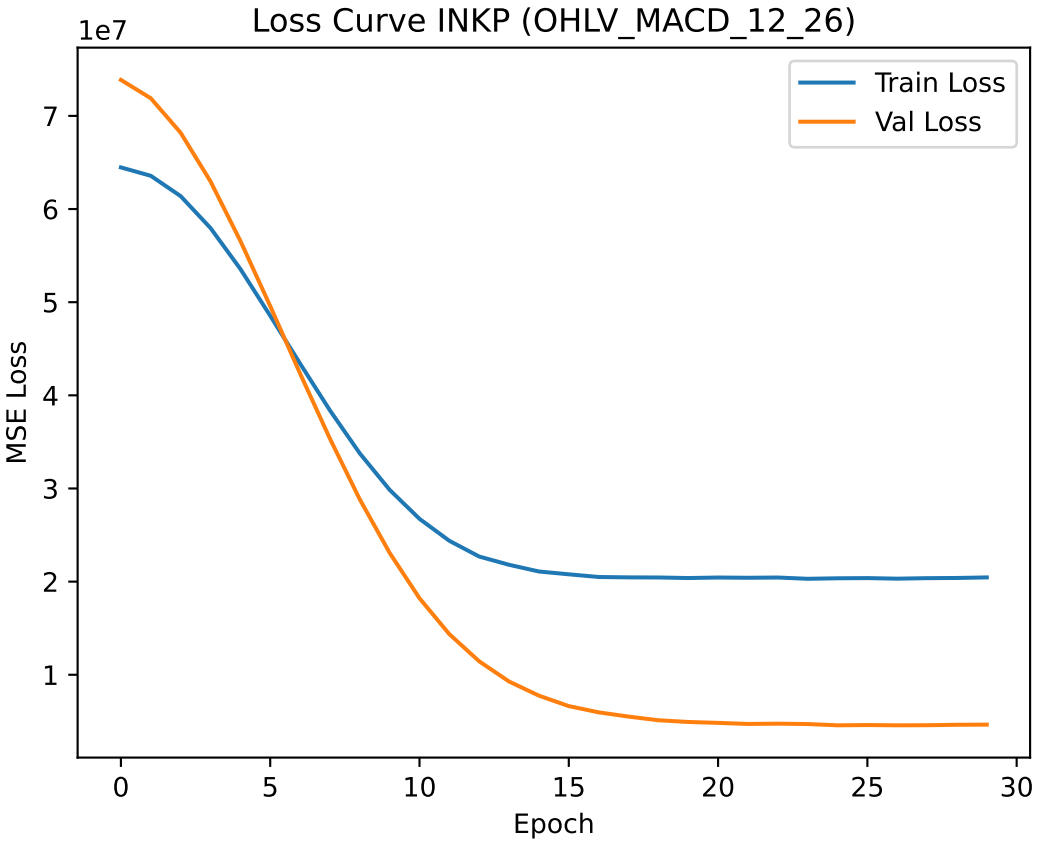

Loss Curve EXCL (OHLV_MACD_12_26)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

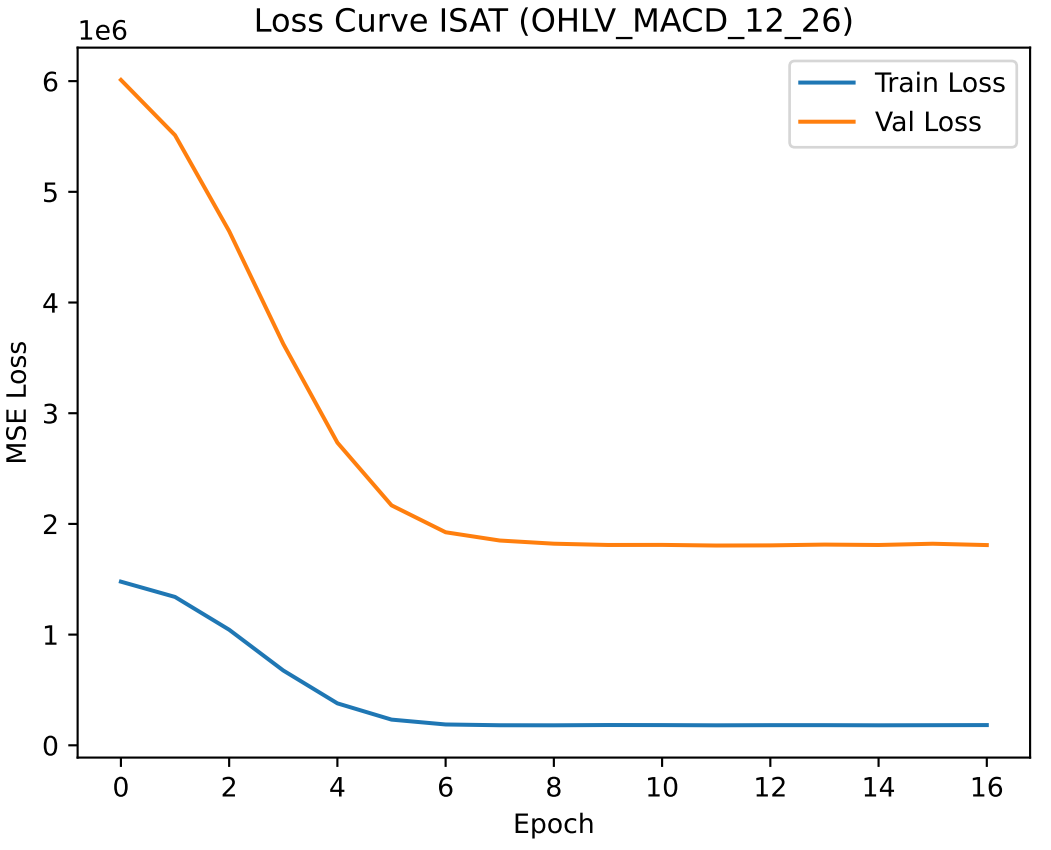

Loss Curve GOTO (OHLV_MACD_12_26)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

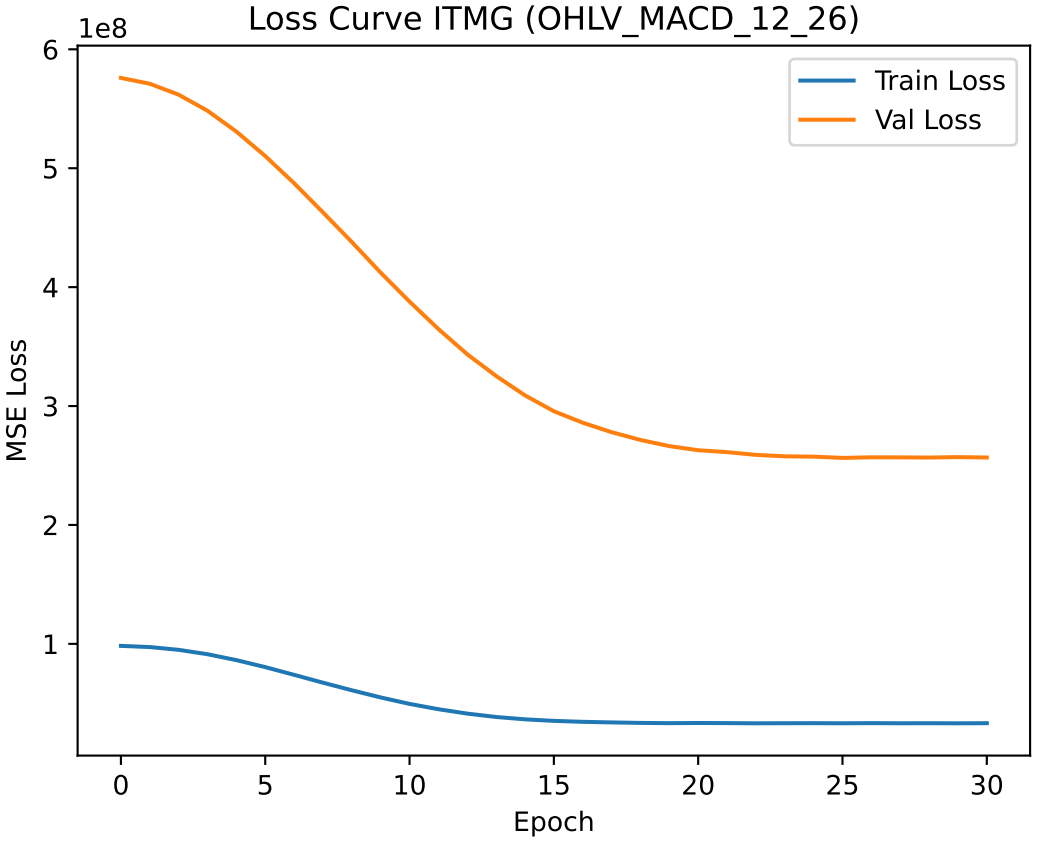

Loss Curve ICBP (OHLV_MACD_12_26)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

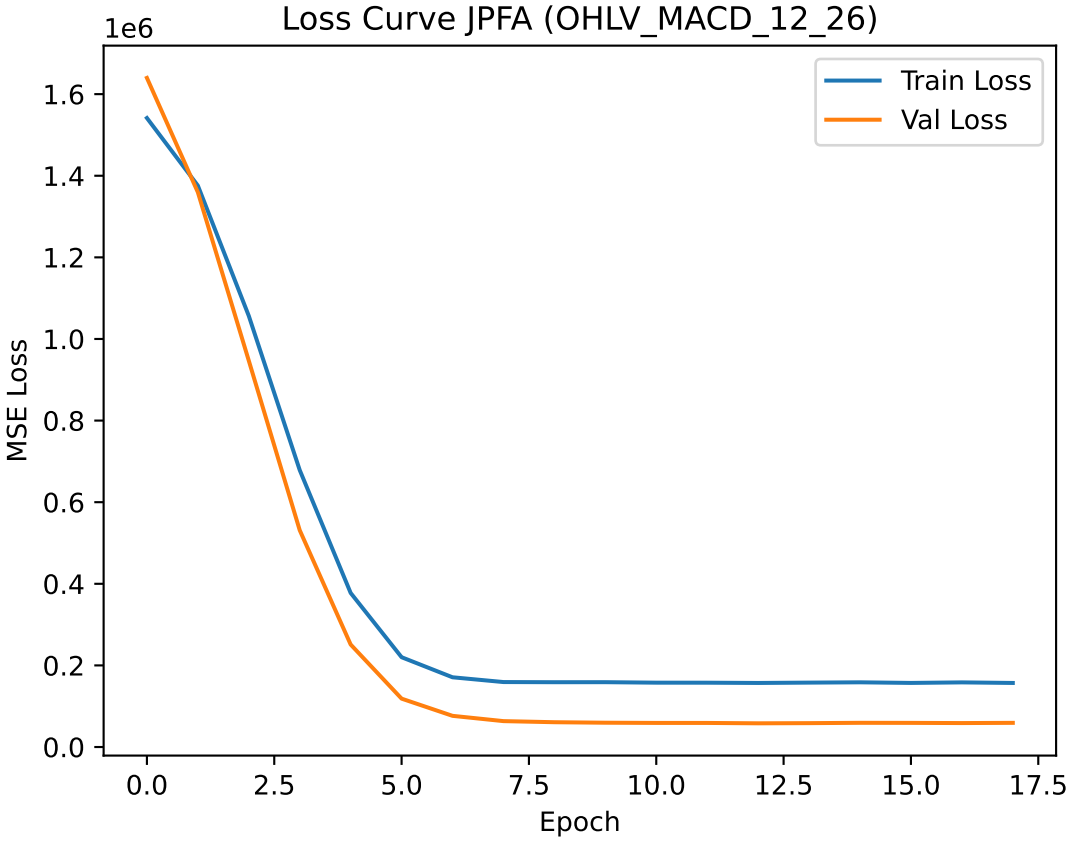

Loss Curve INCO (OHLV_MACD_12_26)
1e7
Train Loss
Val Loss
2.0
1.5
1.0
0.5
MSE Loss
0
5
10
15
20
Epoch

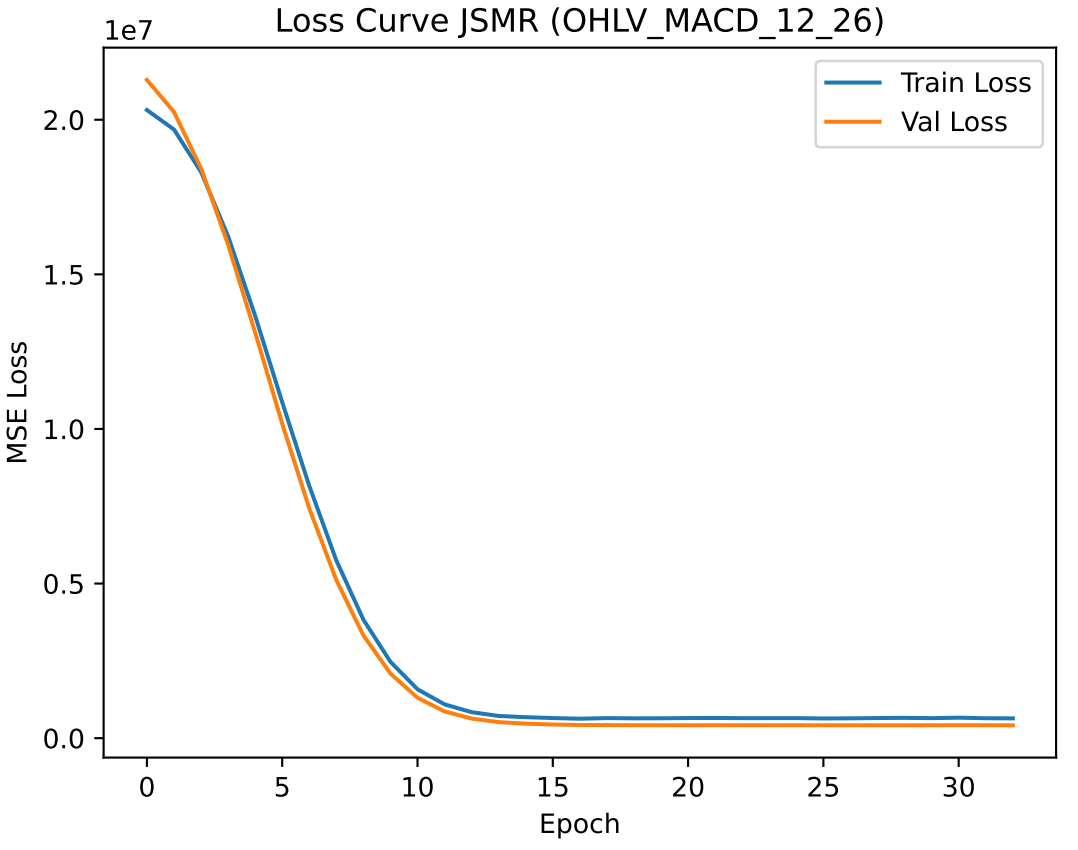

Loss Curve INDF (OHLV_MACD_12_26)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30

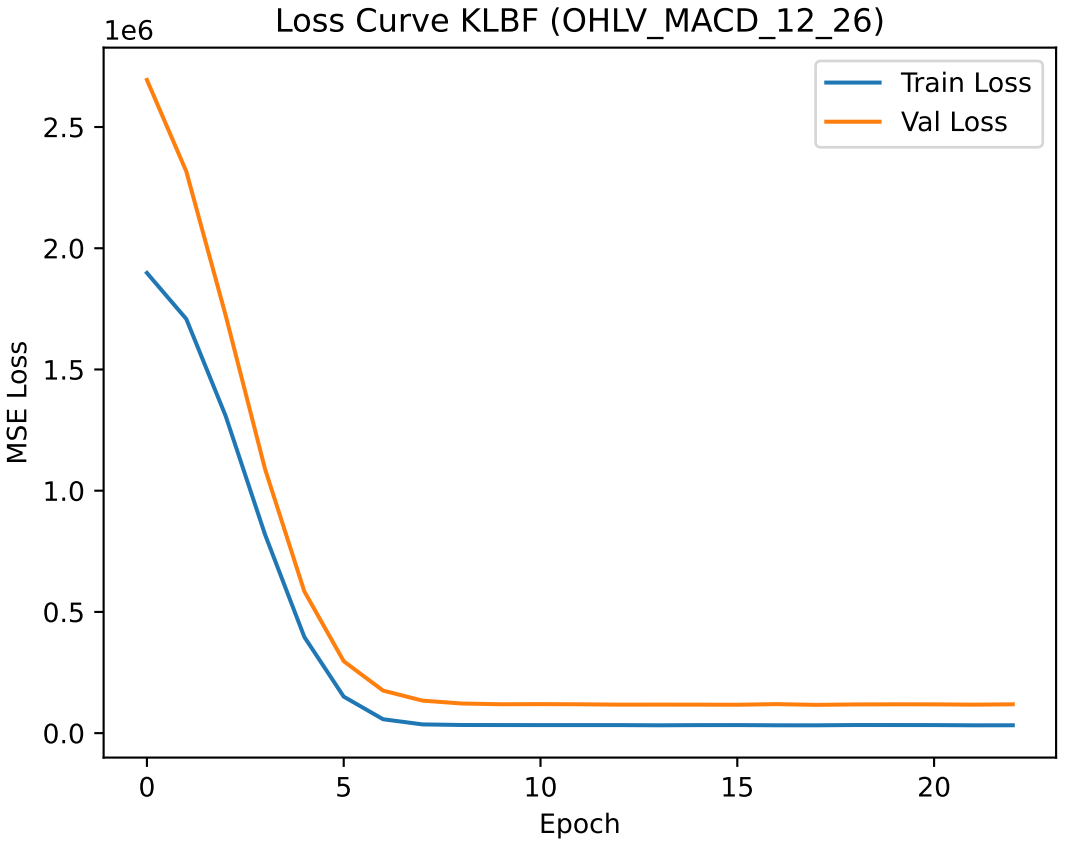

Loss Curve INKP (OHLV_MACD_12_26)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
1
2
3
4
5
6
7

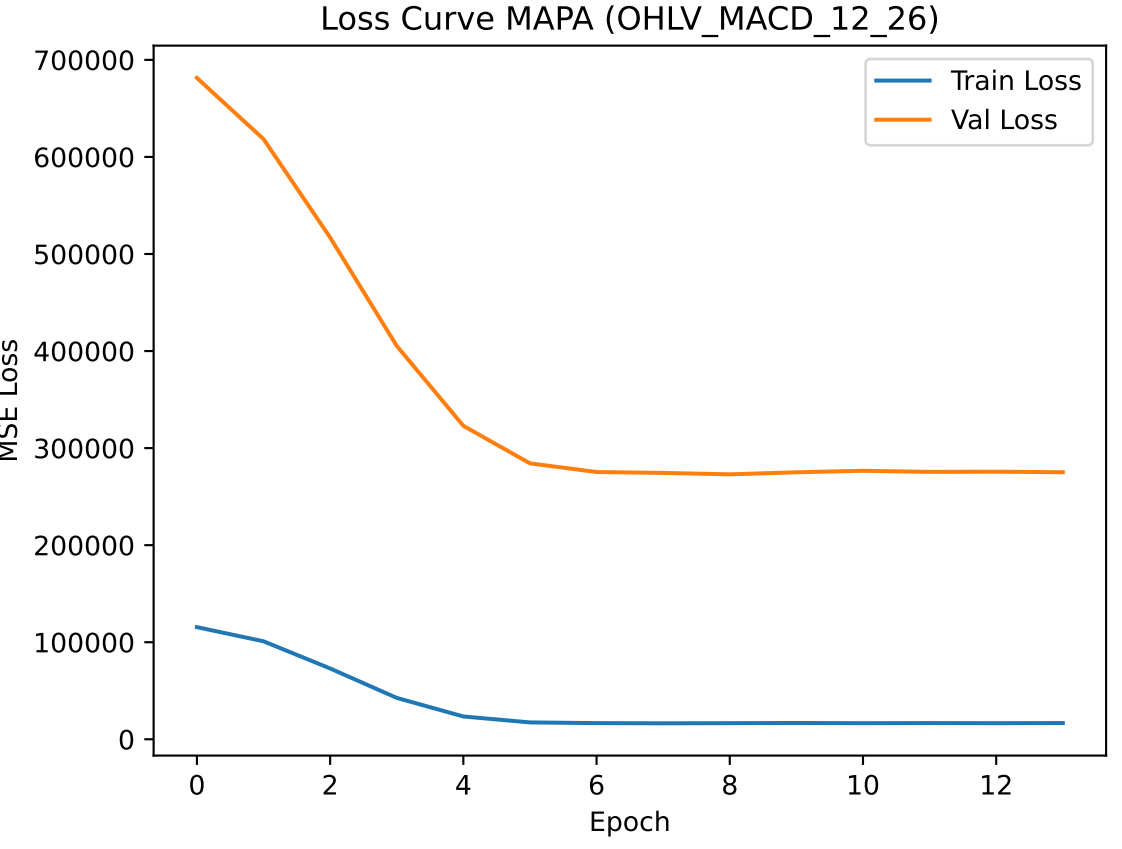

Loss Curve ISAT (OHLV_MACD_12_26)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14
16

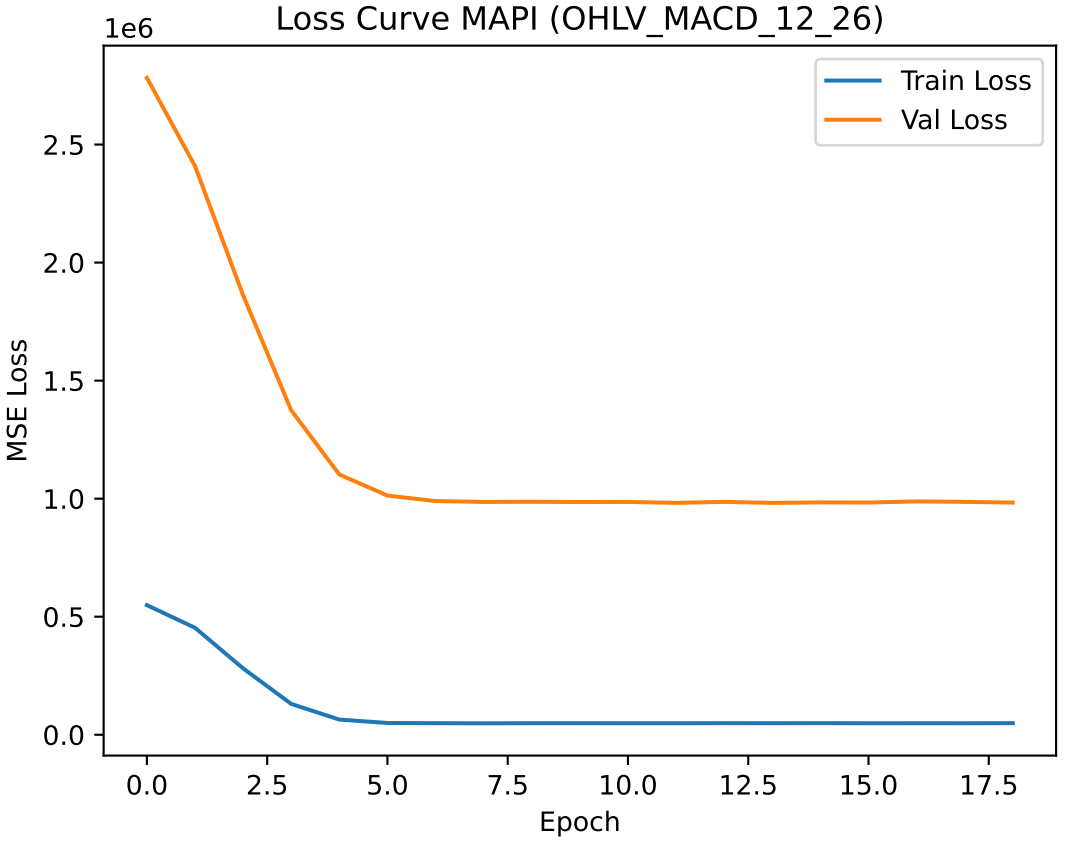

Loss Curve ITMG (OHLV_MACD_12_26)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
Epoch

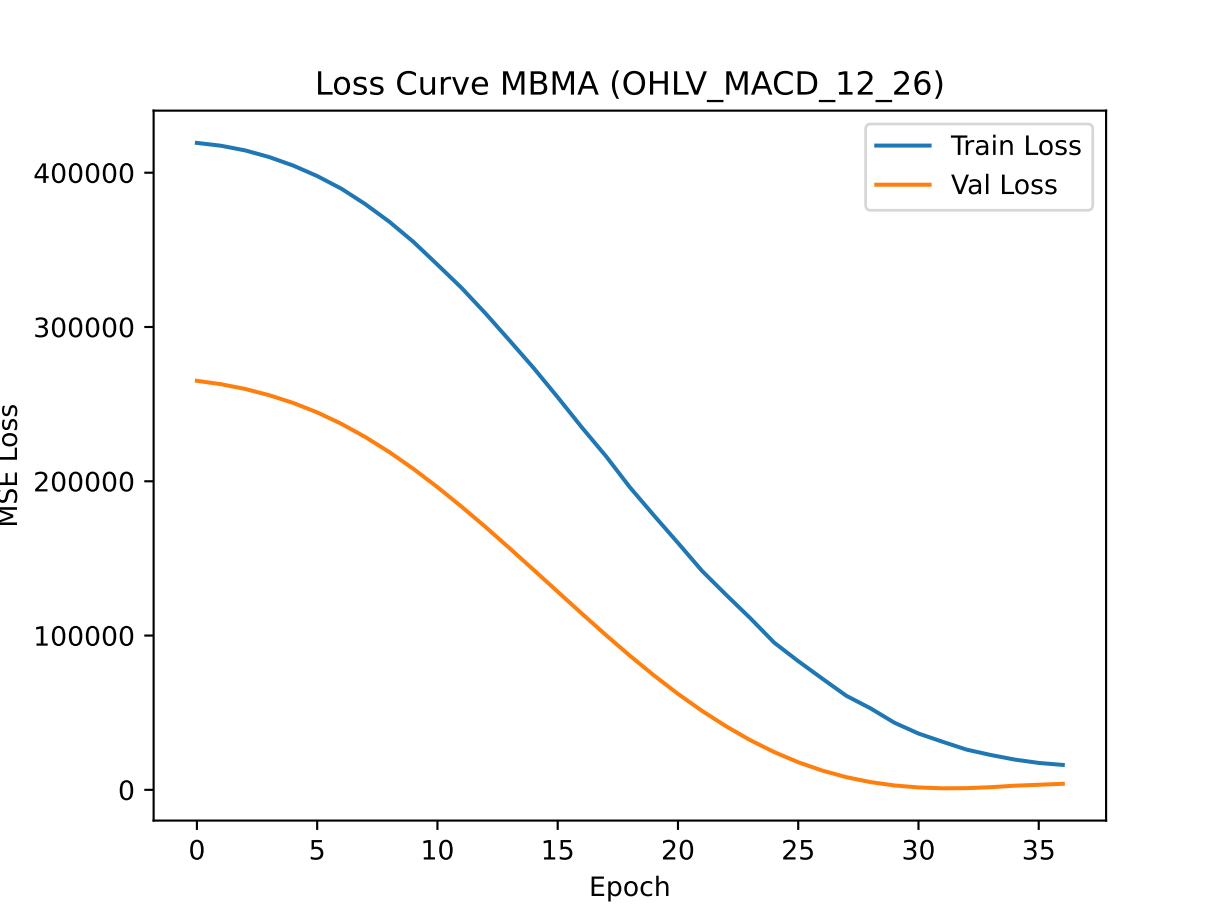

Loss Curve JPFA (OHLV_MACD_12_26)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

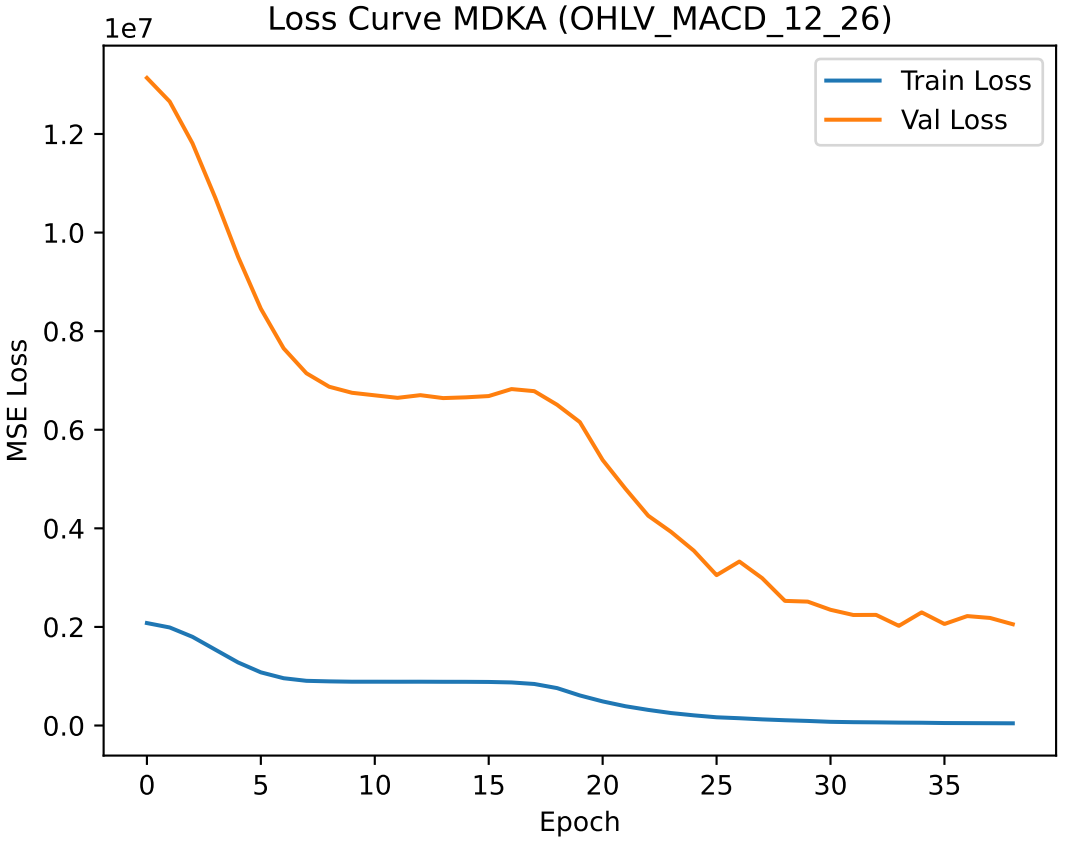

Loss Curve JSMR (OHLV_MACD_12_26)
1e7
2.0
1.5
1.0
0.5
0.0
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

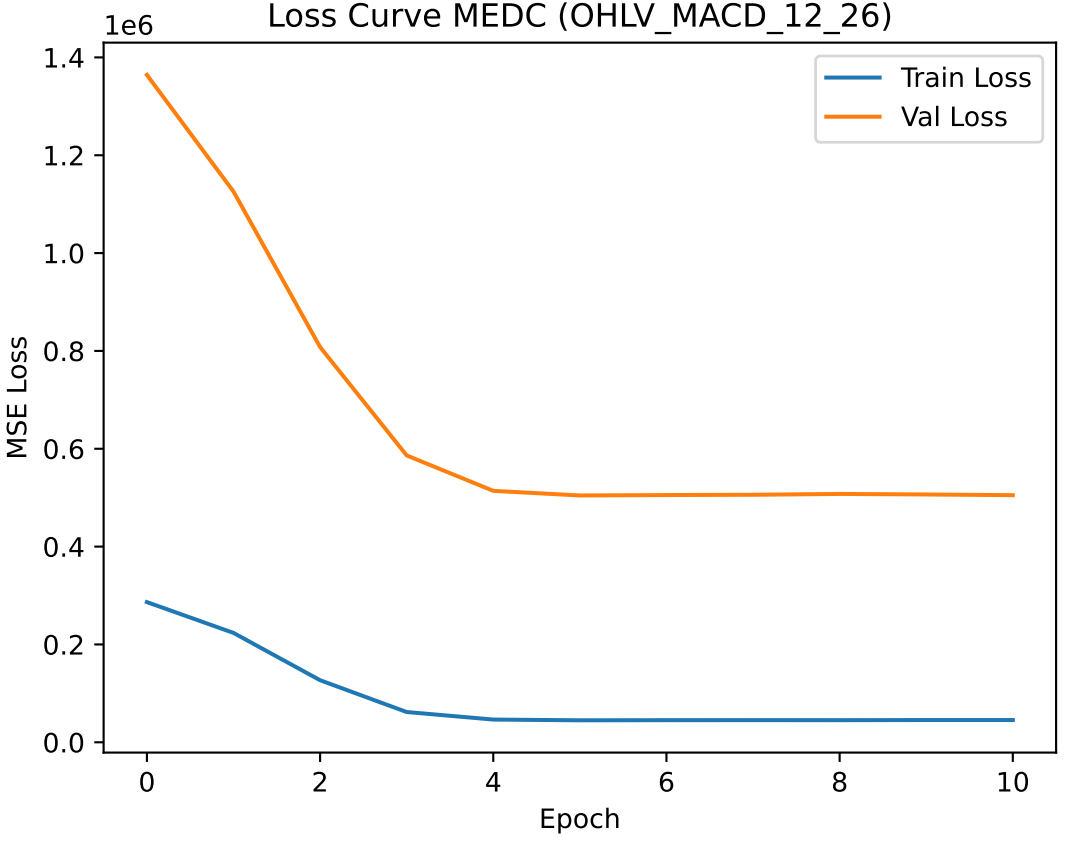

Loss Curve KLBF (OHLV_MACD_12_26)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
Epoch

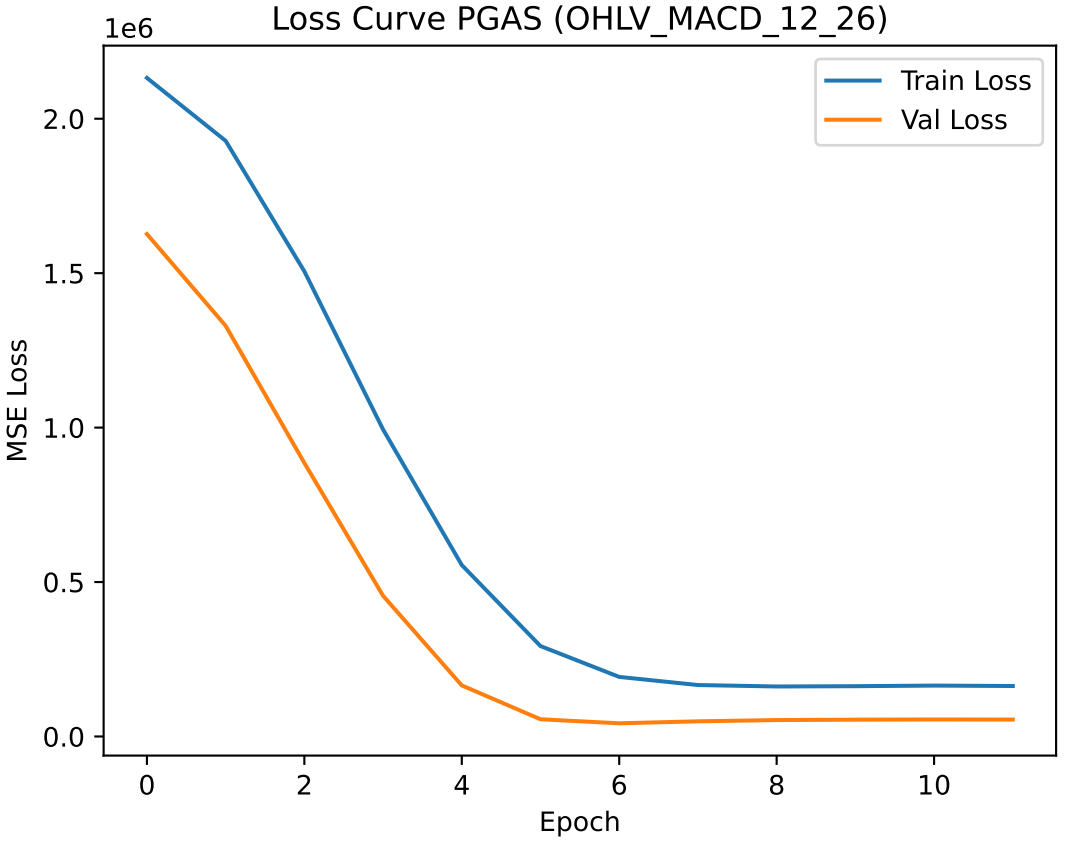

Loss Curve MAPA (OHLV_MACD_12_26)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12

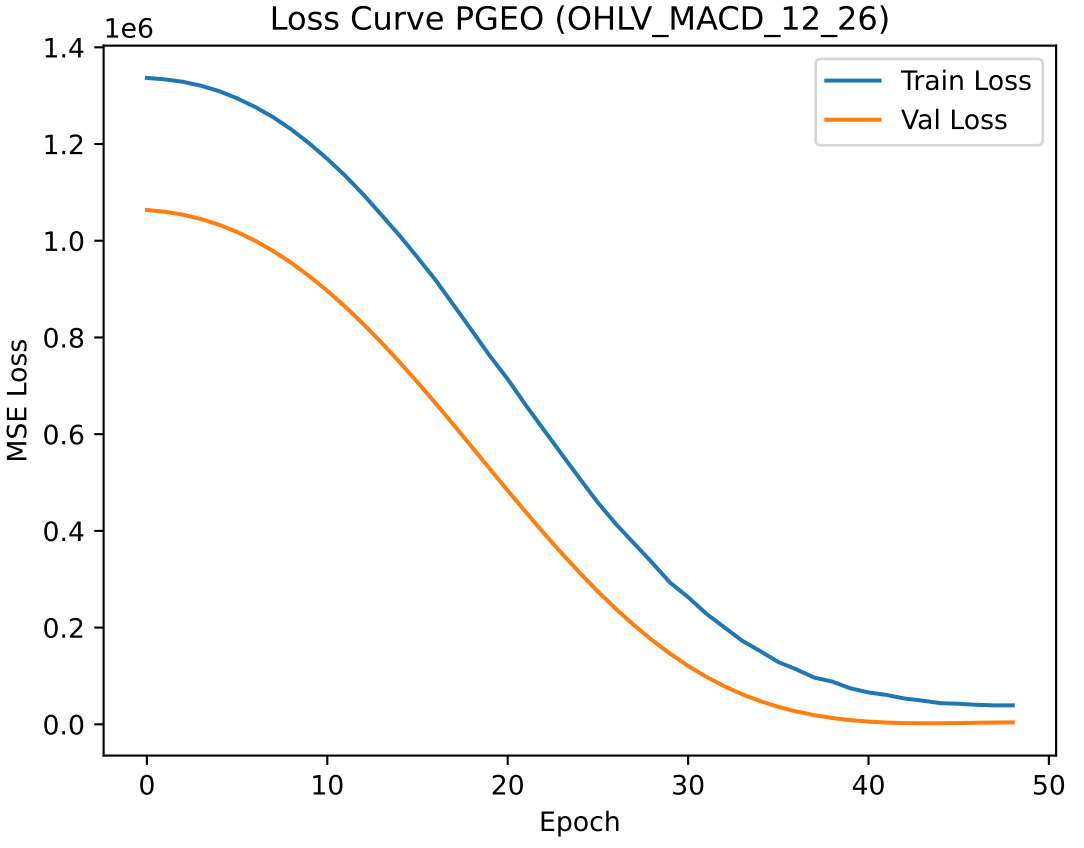

Loss Curve MAPI (OHLV_MACD_12_26)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

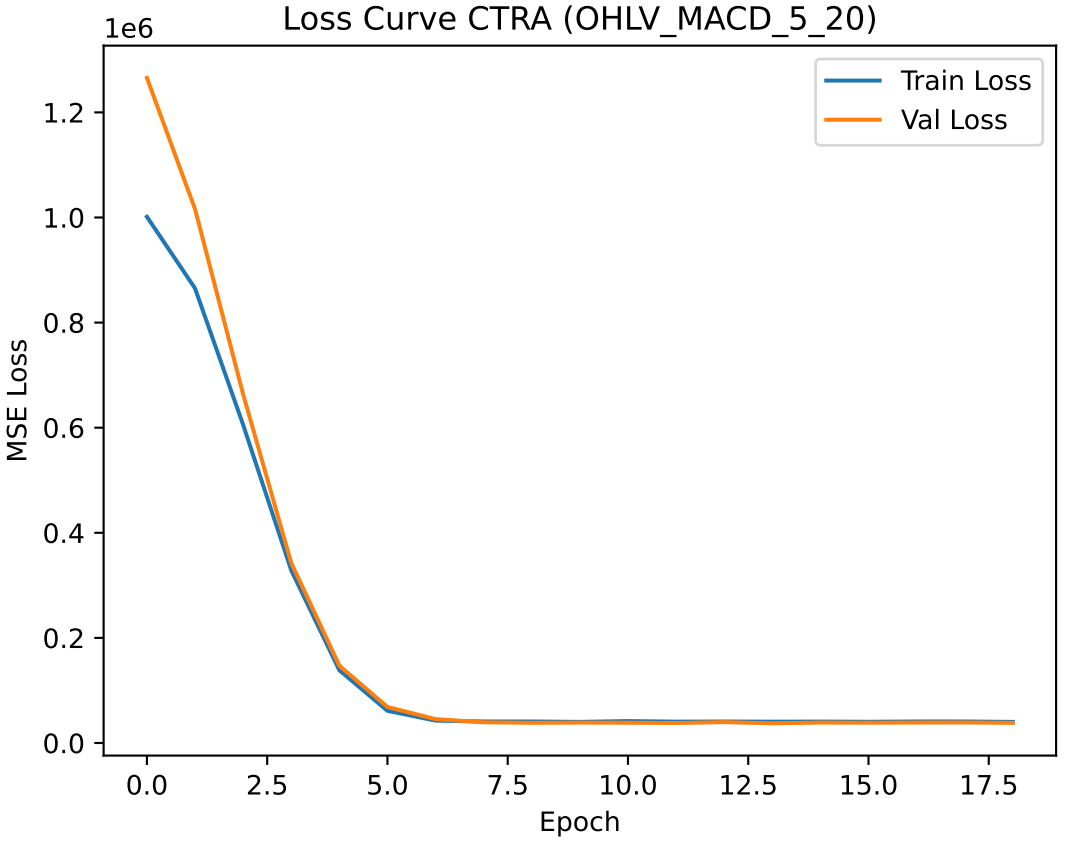

Loss Curve MBMA (OHLV_MACD_12_26)
Train Loss
Val Loss
MSE Loss
400000
300000
200000
100000
0
0
5
10
15
20
25
30
35
Epoch

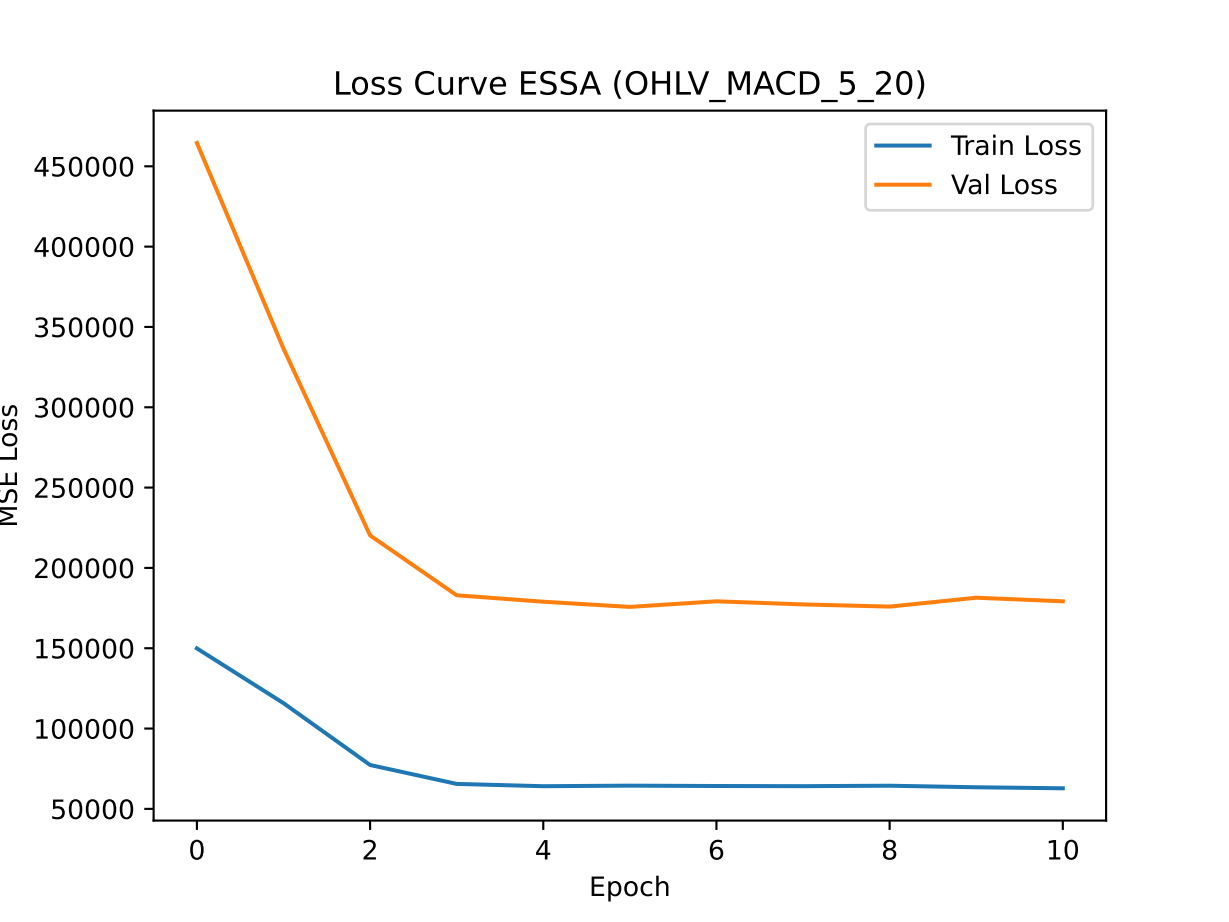

Loss Curve MDKA (OHLV_MACD_12_26)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0.0
0
5
10
15
20
25
30
35
Epoch

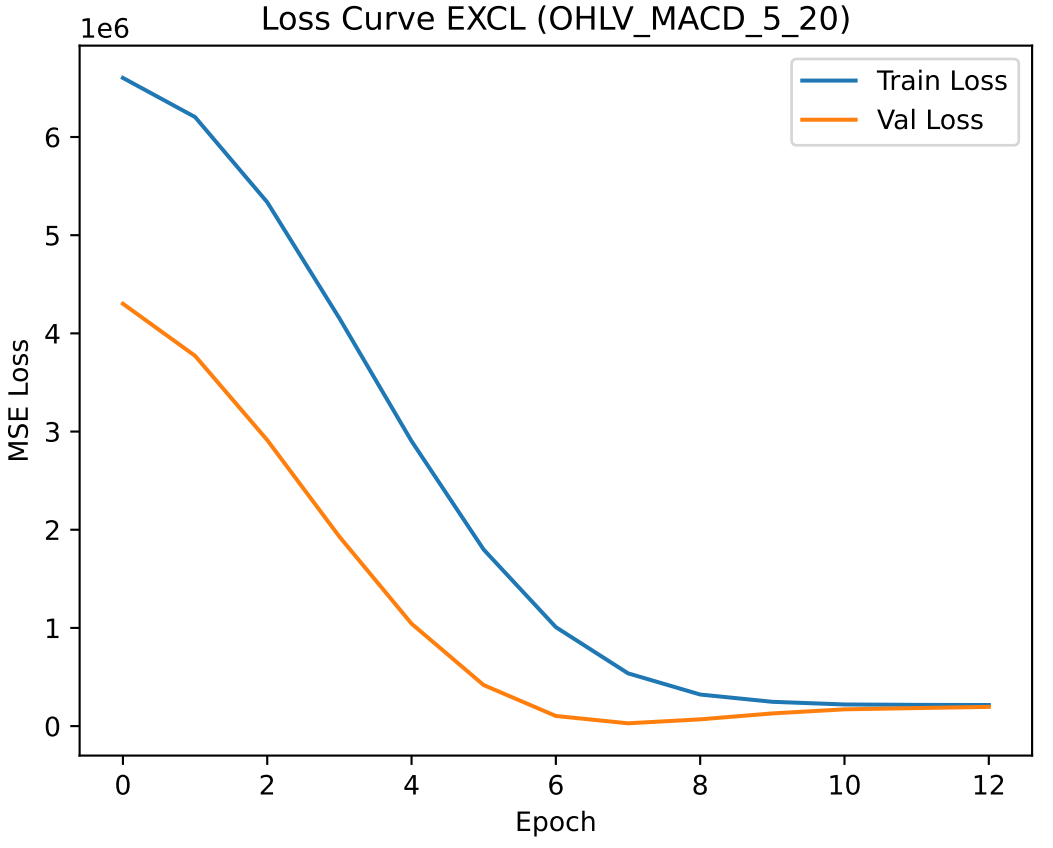

Loss Curve MEDC (OHLV_MACD_12_26)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
Epoch

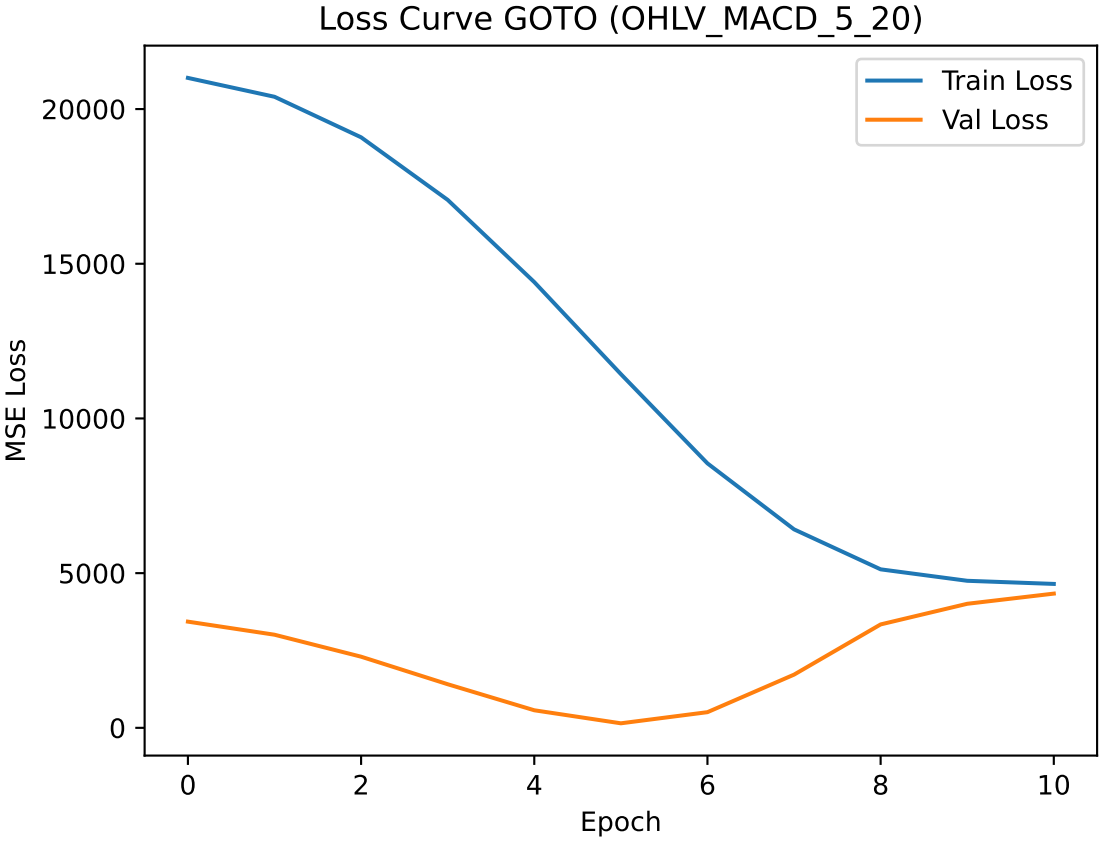

Loss Curve PGAS (OHLV_MACD_12_26)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

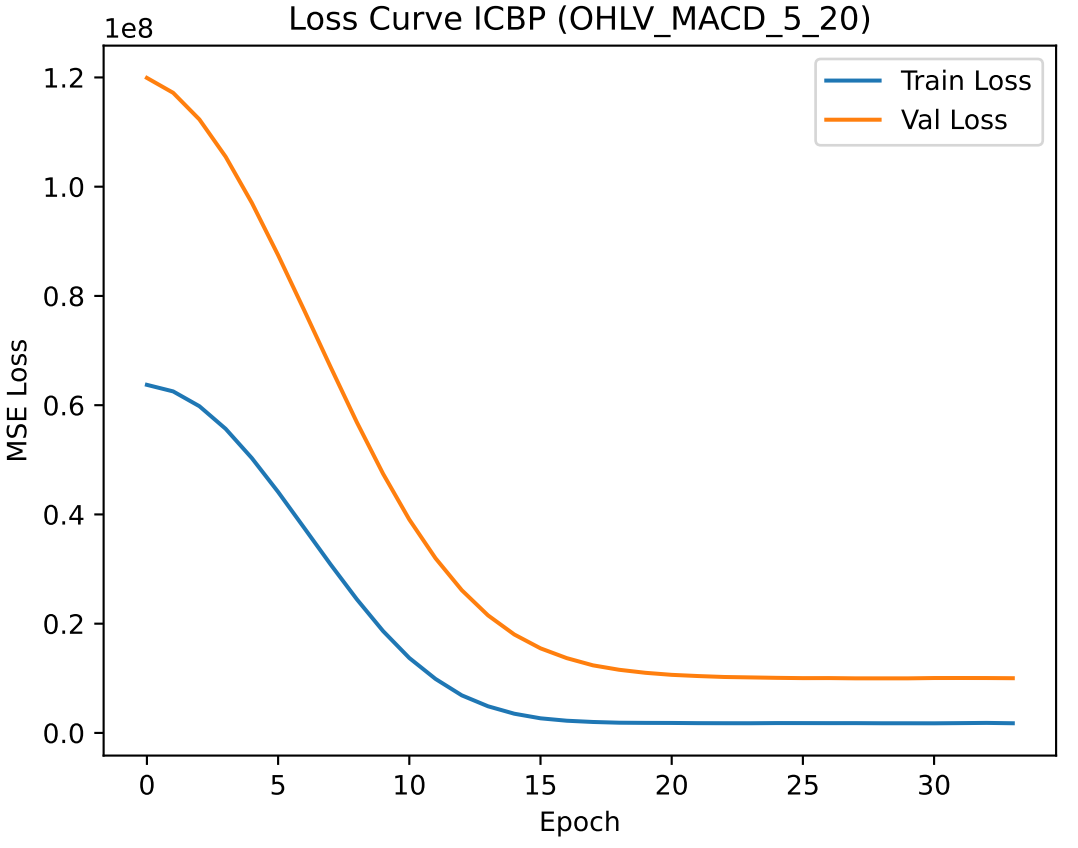

Loss Curve PGEO (OHLV_MACD_12_26)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

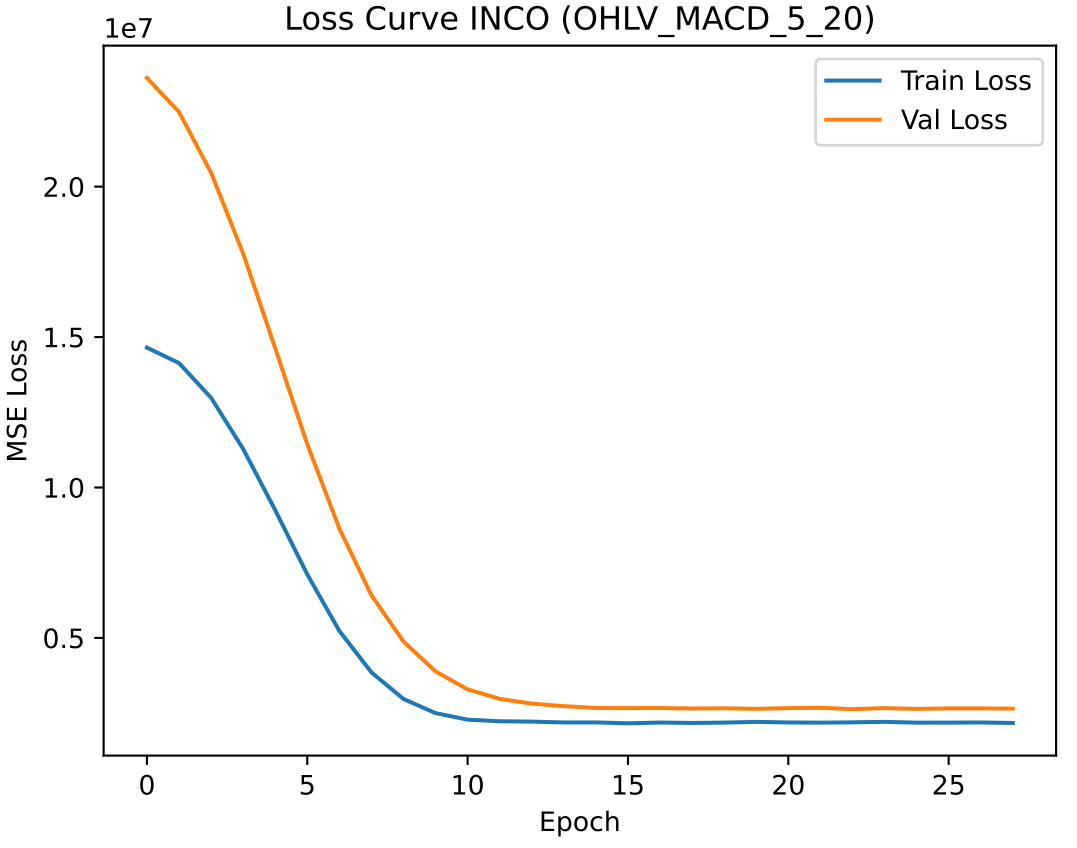

Loss Curve CTRA (OHLV_MACD_5_20)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

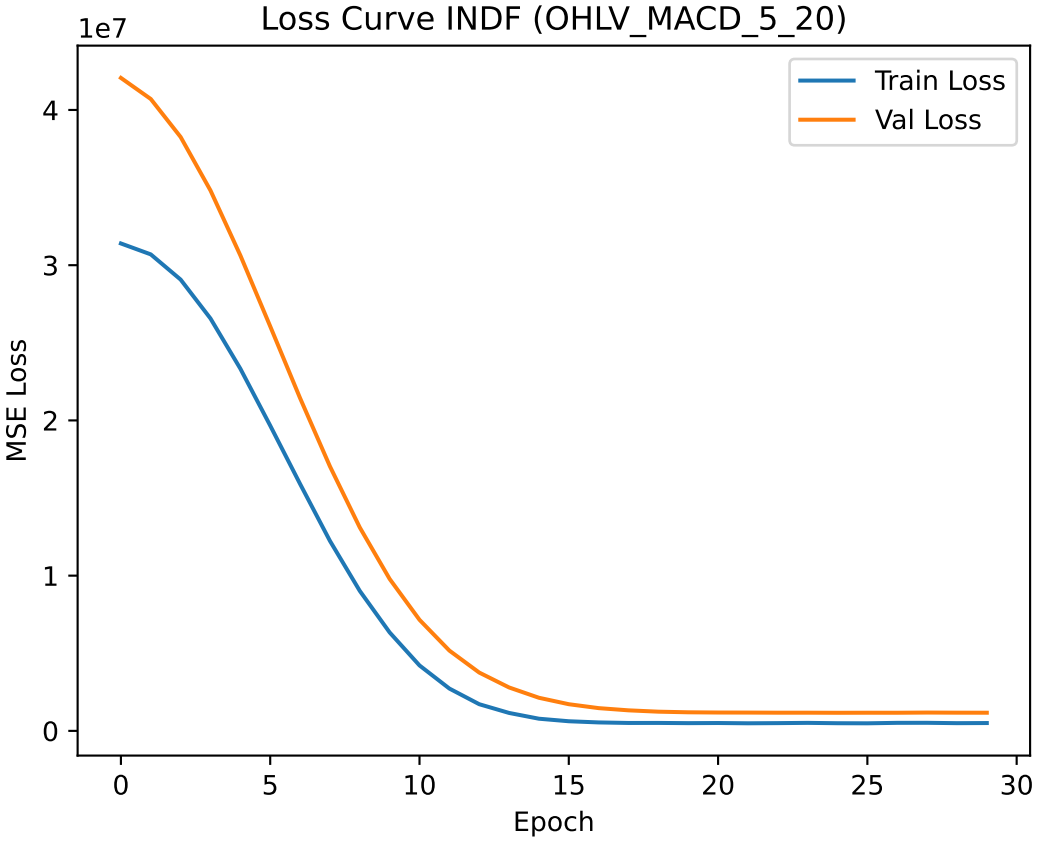

Loss Curve ESSA (OHLV_MACD_5_20)
Train Loss
Val Loss
MSE Loss
Epoch
450000
400000
350000
300000
250000
200000
150000
100000
50000
0
2
4
6
8
10

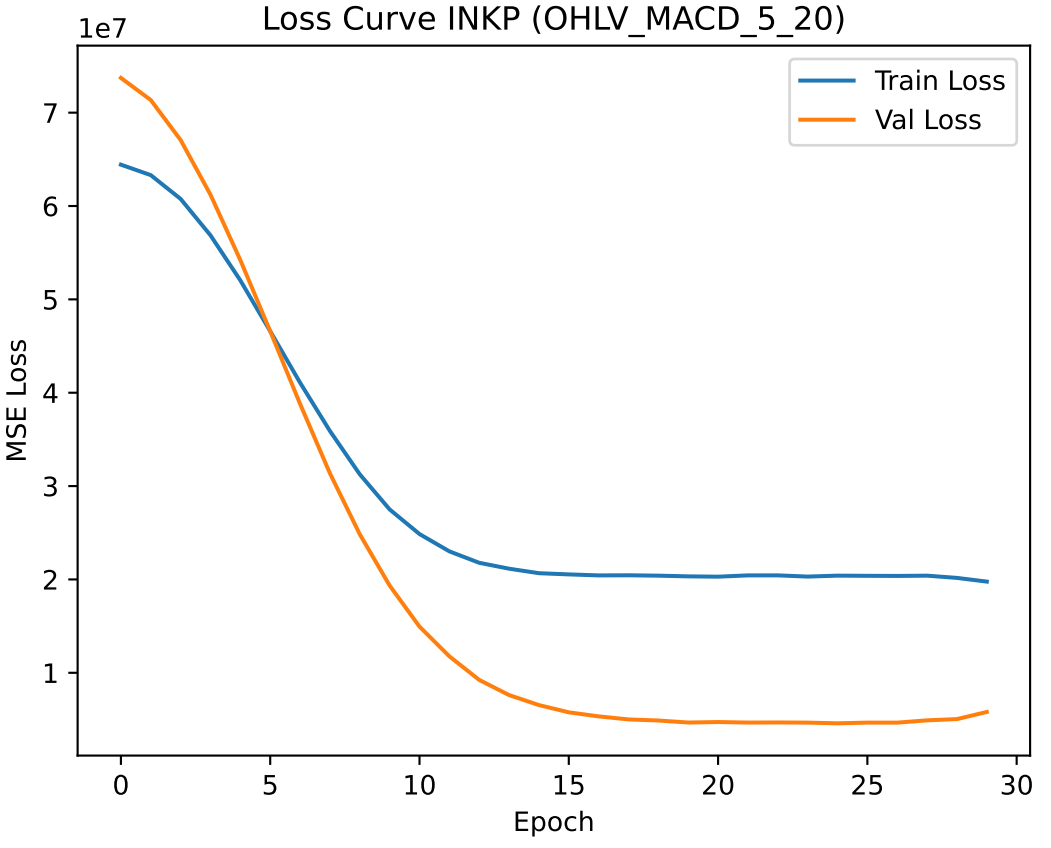

Loss Curve EXCL (OHLV_MACD_5_20)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

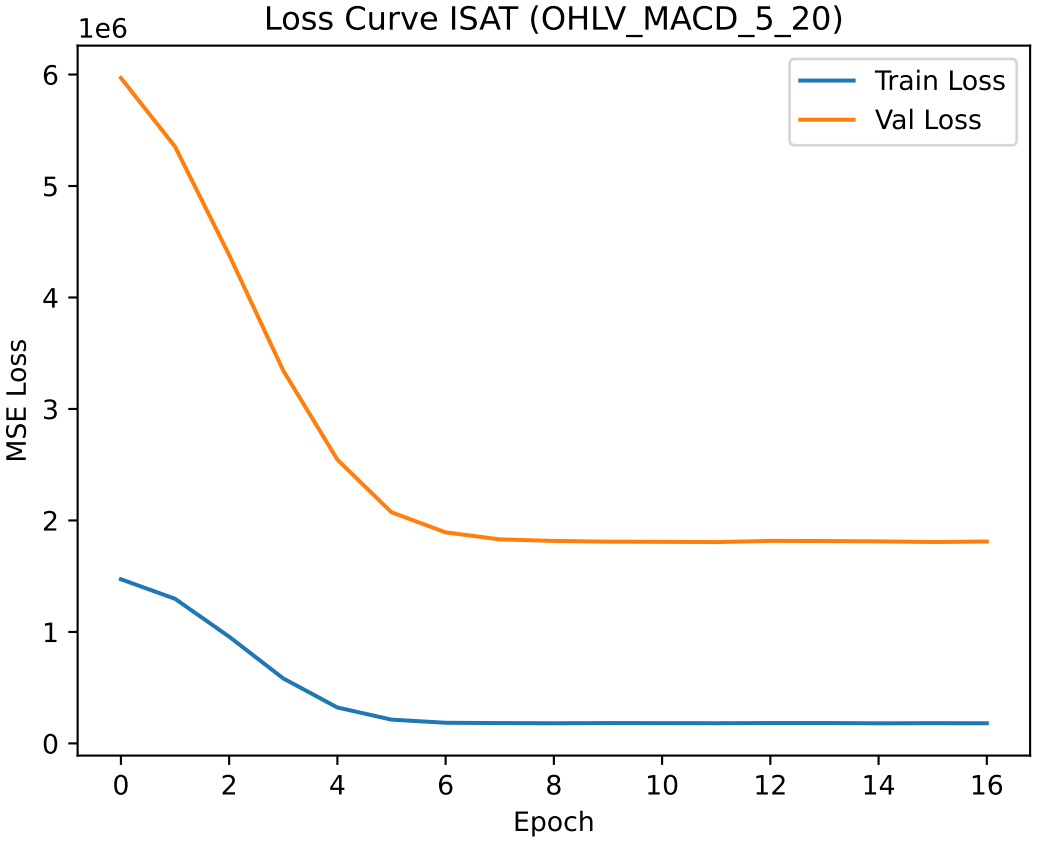

Loss Curve GOTO (OHLV_MACD_5_20)
Train Loss
Val Loss
20000
15000
10000
5000
0
MSE Loss
0
2
4
6
8
10
Epoch

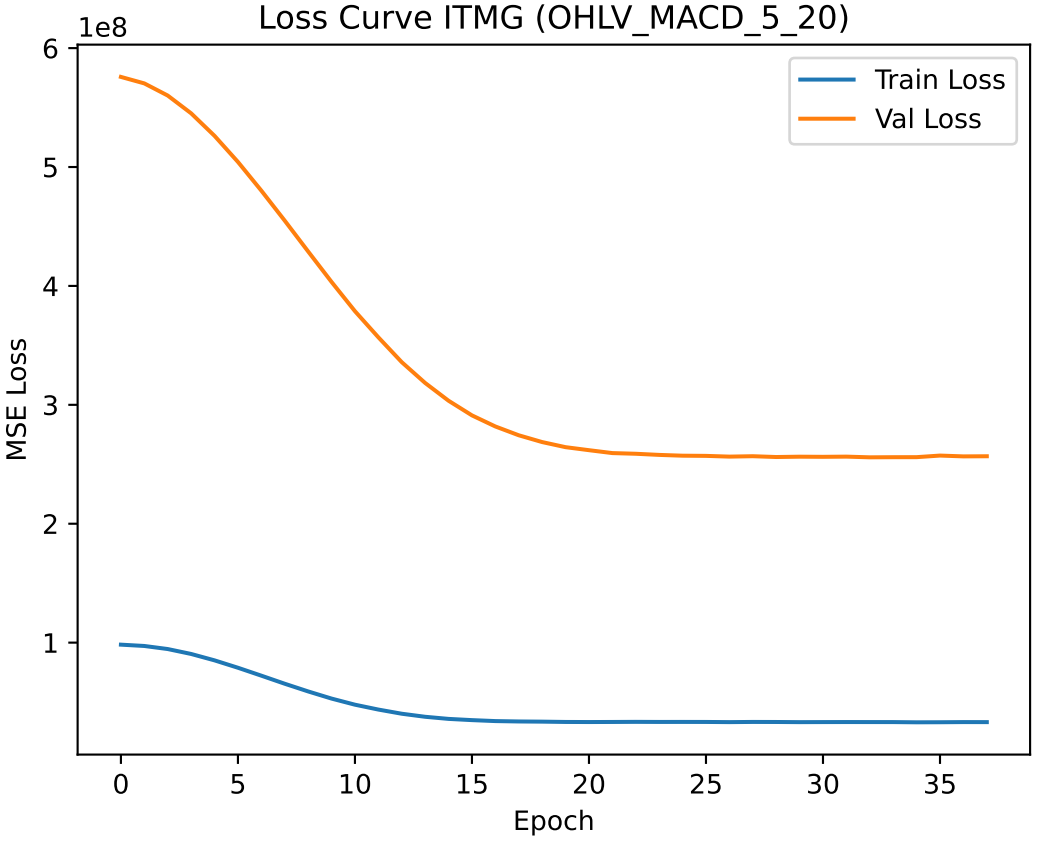

Loss Curve ICBP (OHLV_MACD_5_20)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
5
10
15
20
25
30
Epoch
Train Loss
Val Loss

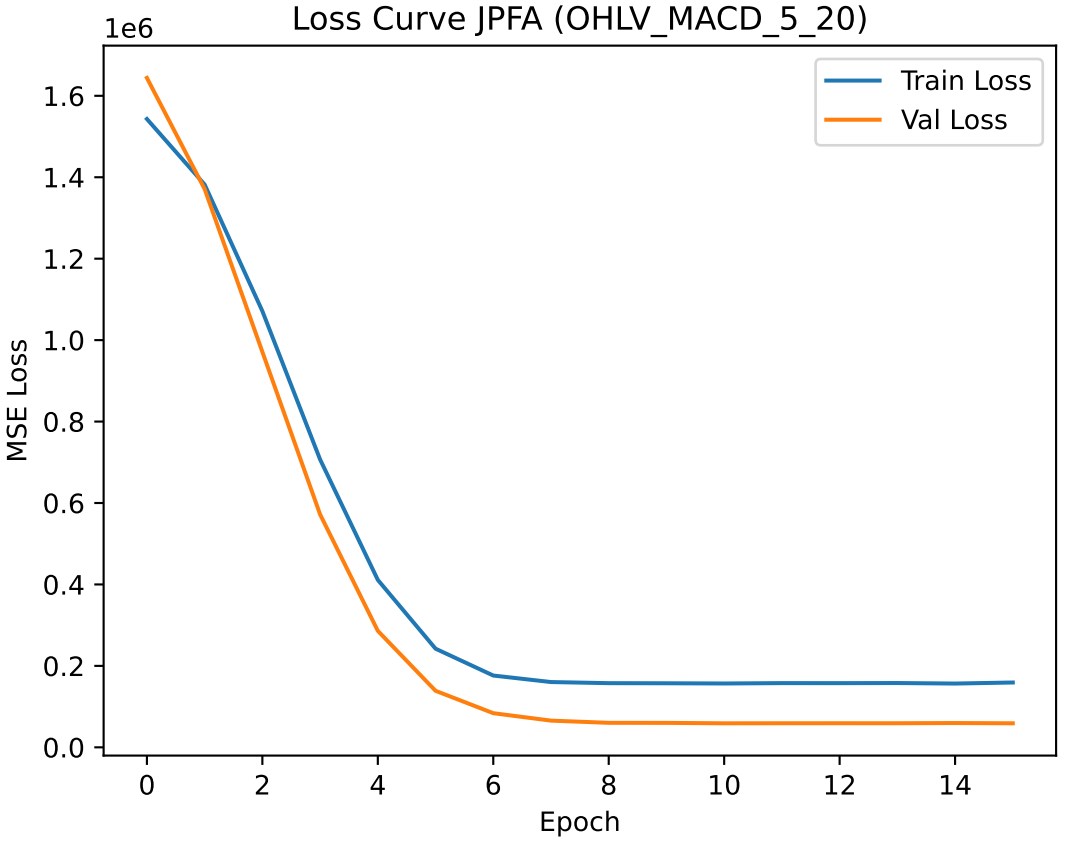

Loss Curve INCO (OHLV_MACD_5_20)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0
5
10
15
20
25
Epoch

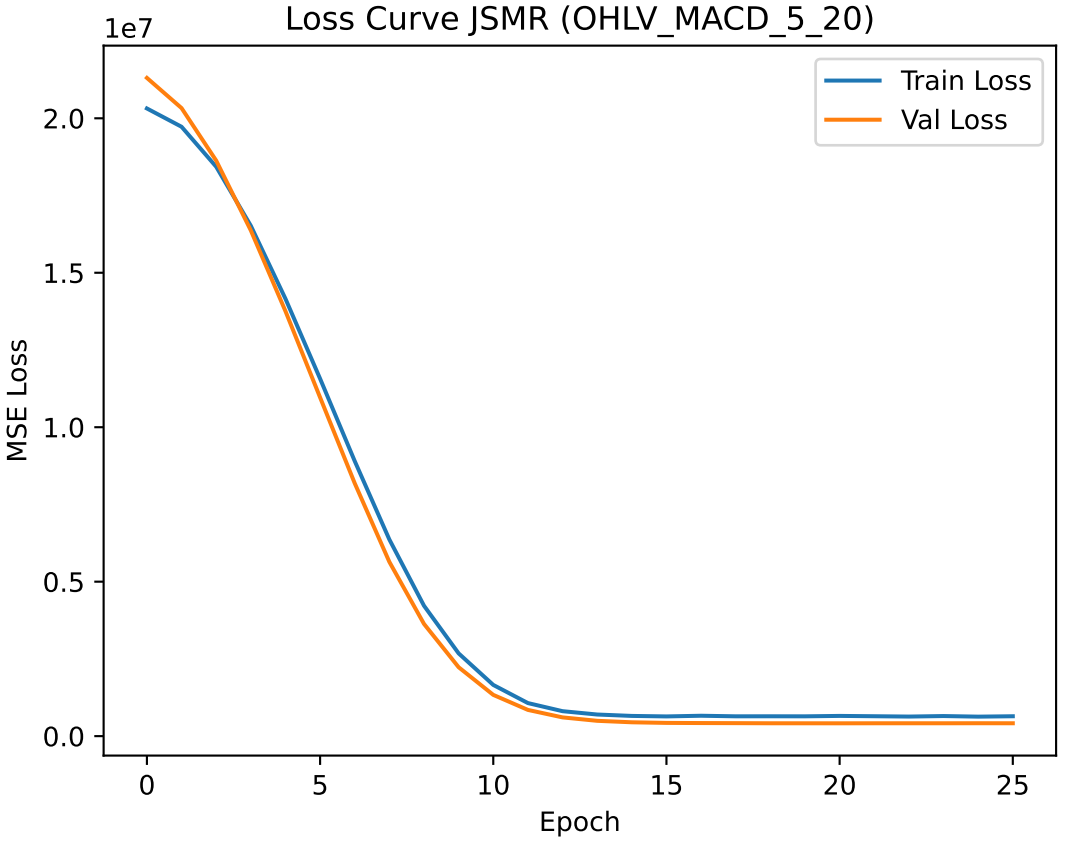

Loss Curve INDF (OHLV_MACD_5_20)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30

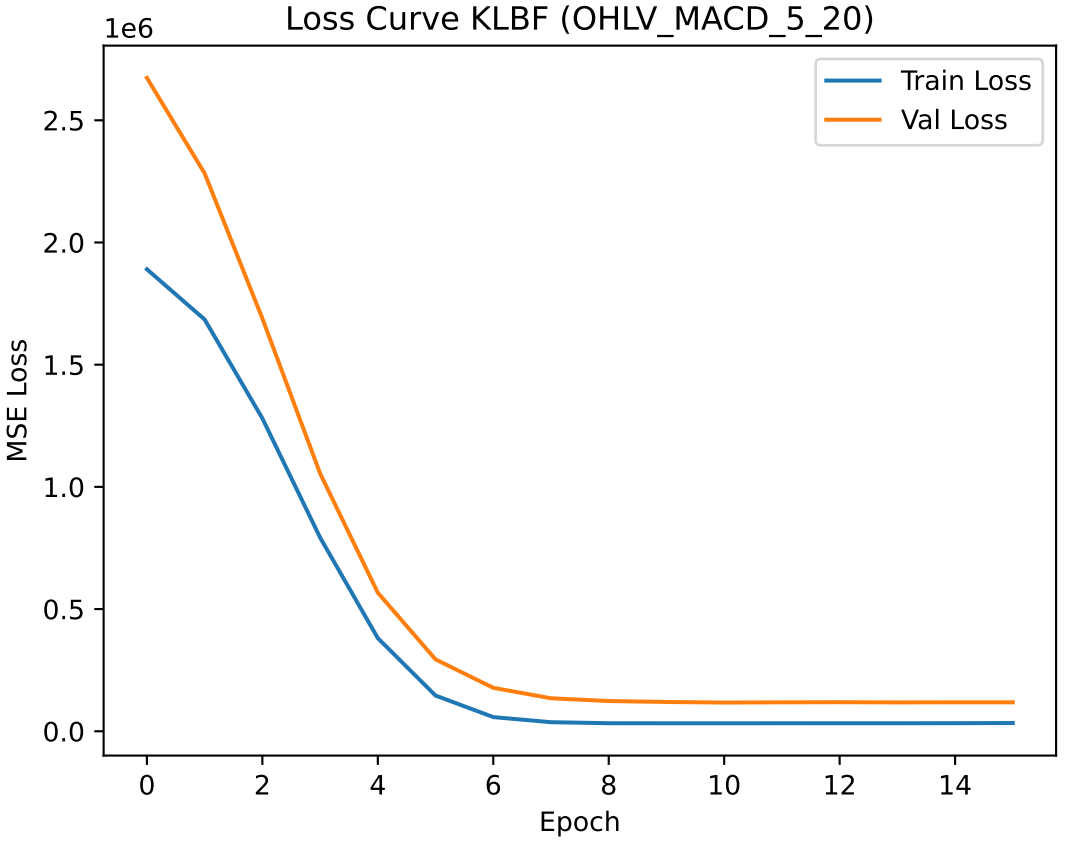

Loss Curve INKP (OHLV_MACD_5_20)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
5
10
15
20
25
30
1
2
3
4
5
6
7

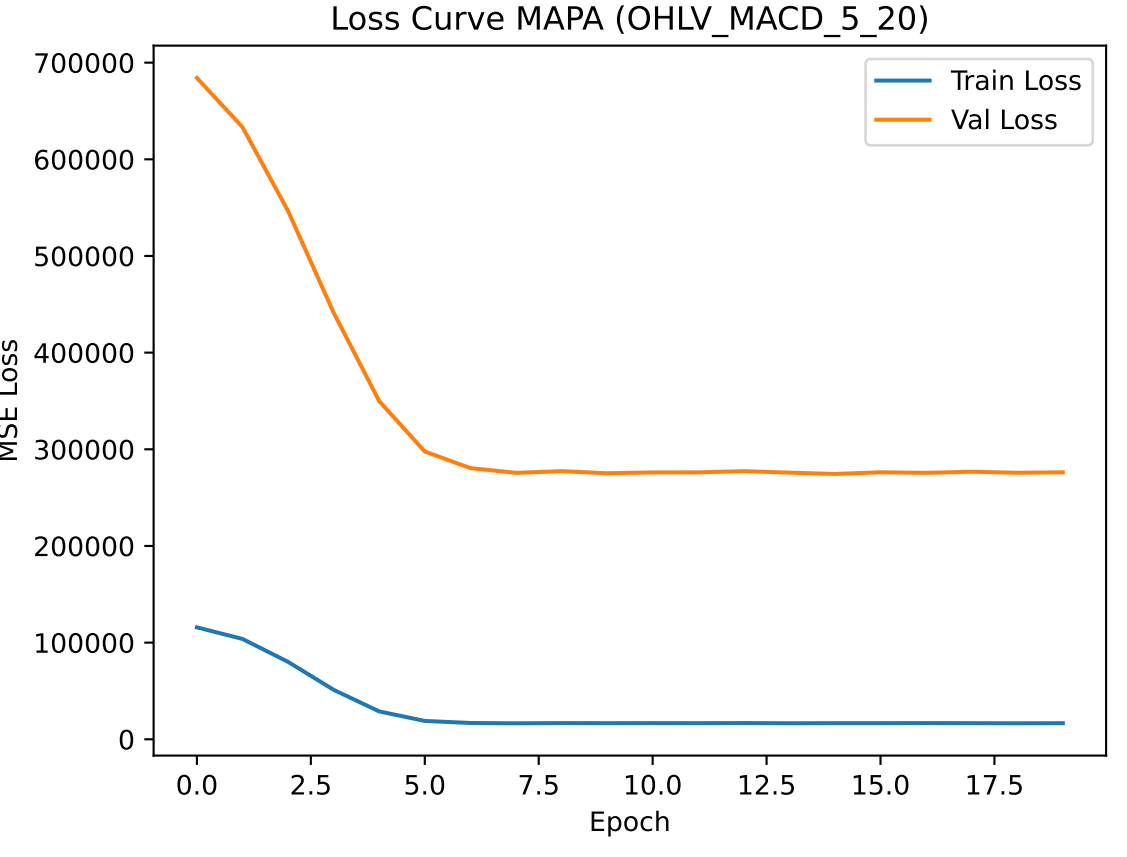

Loss Curve ISAT (OHLV_MACD_5_20)
1e6
MSE Loss
Epoch
Train Loss
Val Loss
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14
16

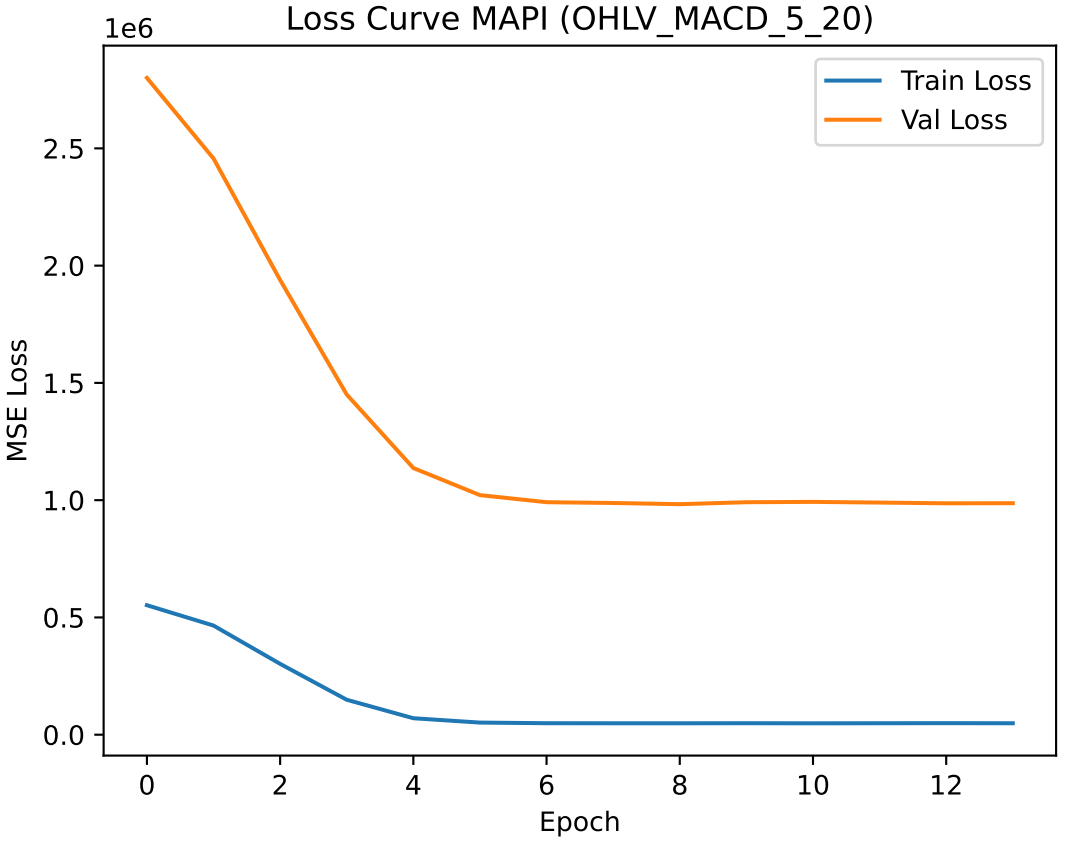

Loss Curve ITMG (OHLV_MACD_5_20)
1e8
6
5
4
3
2
1
MSE Loss
0
5
10
15
20
25
30
35
Epoch
Train Loss
Val Loss

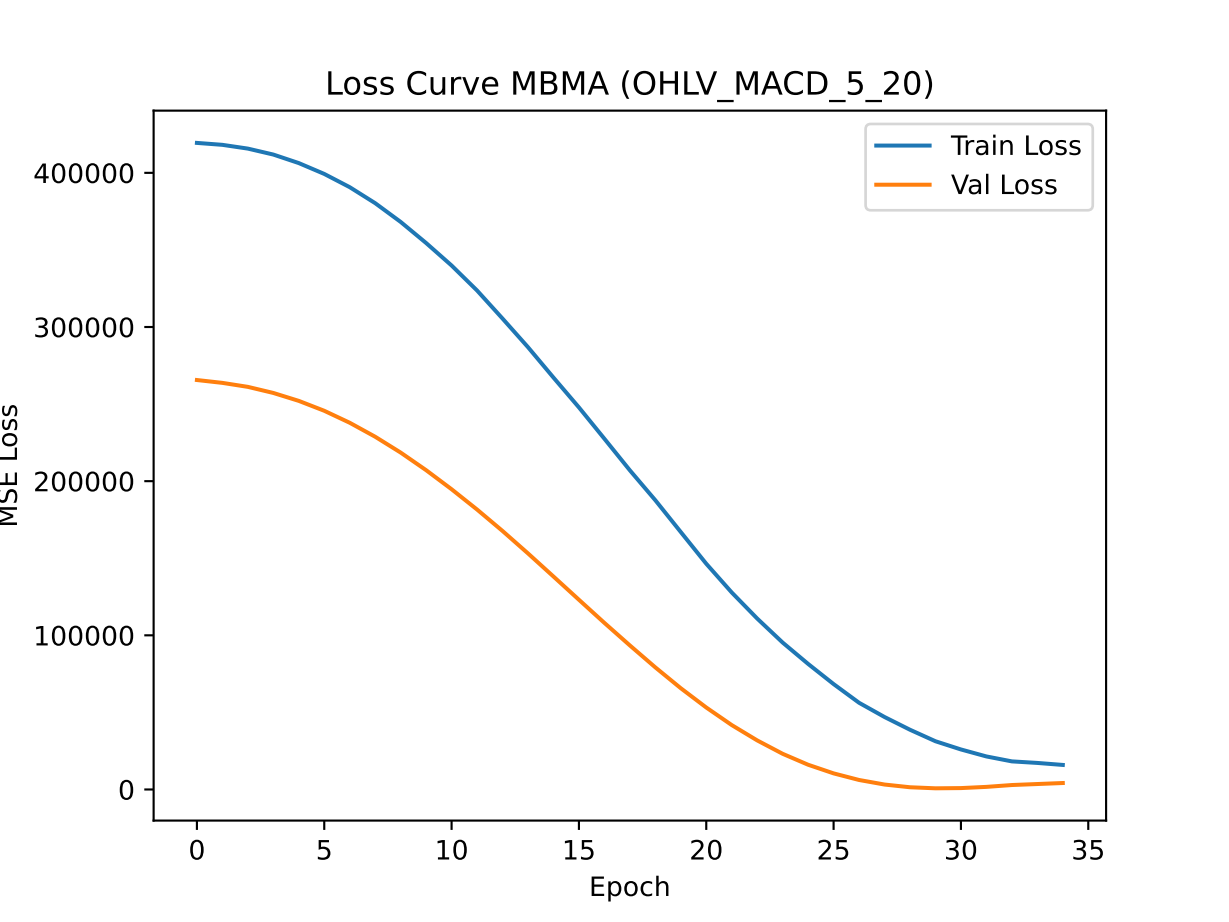

Loss Curve JPFA (OHLV_MACD_5_20)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14

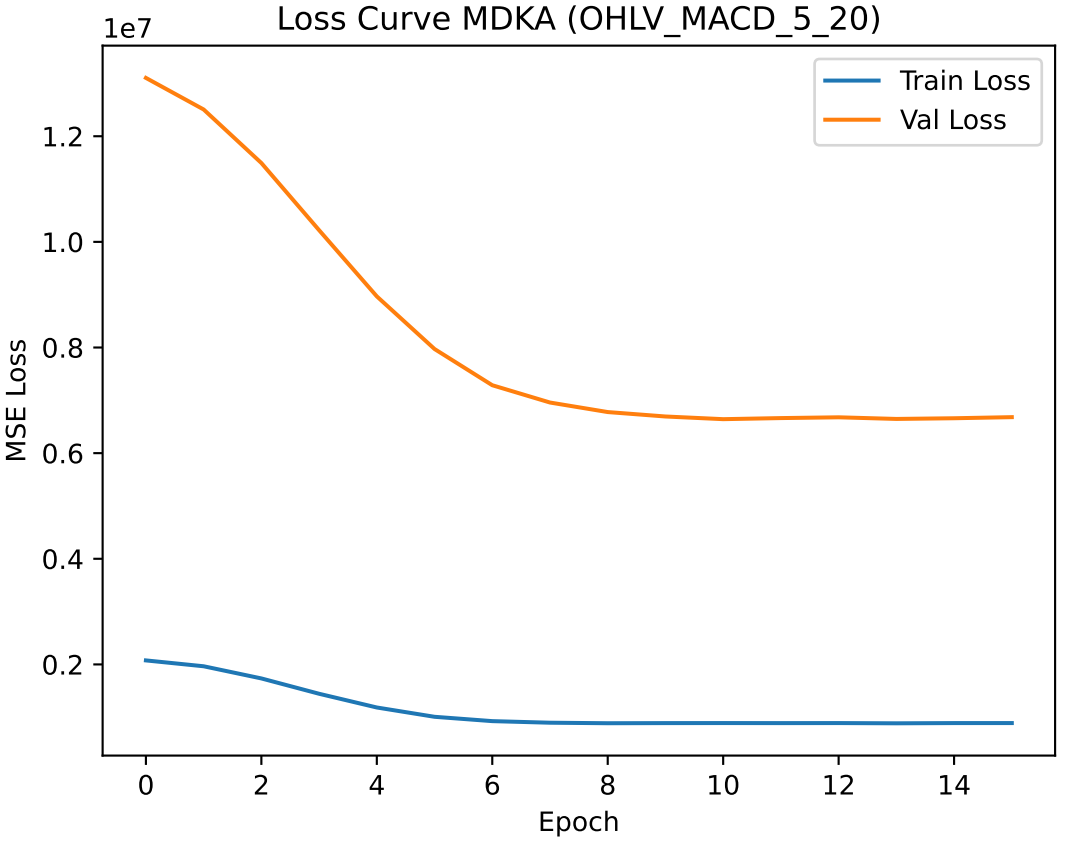

Loss Curve JSMR (OHLV_MACD_5_20)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
Epoch

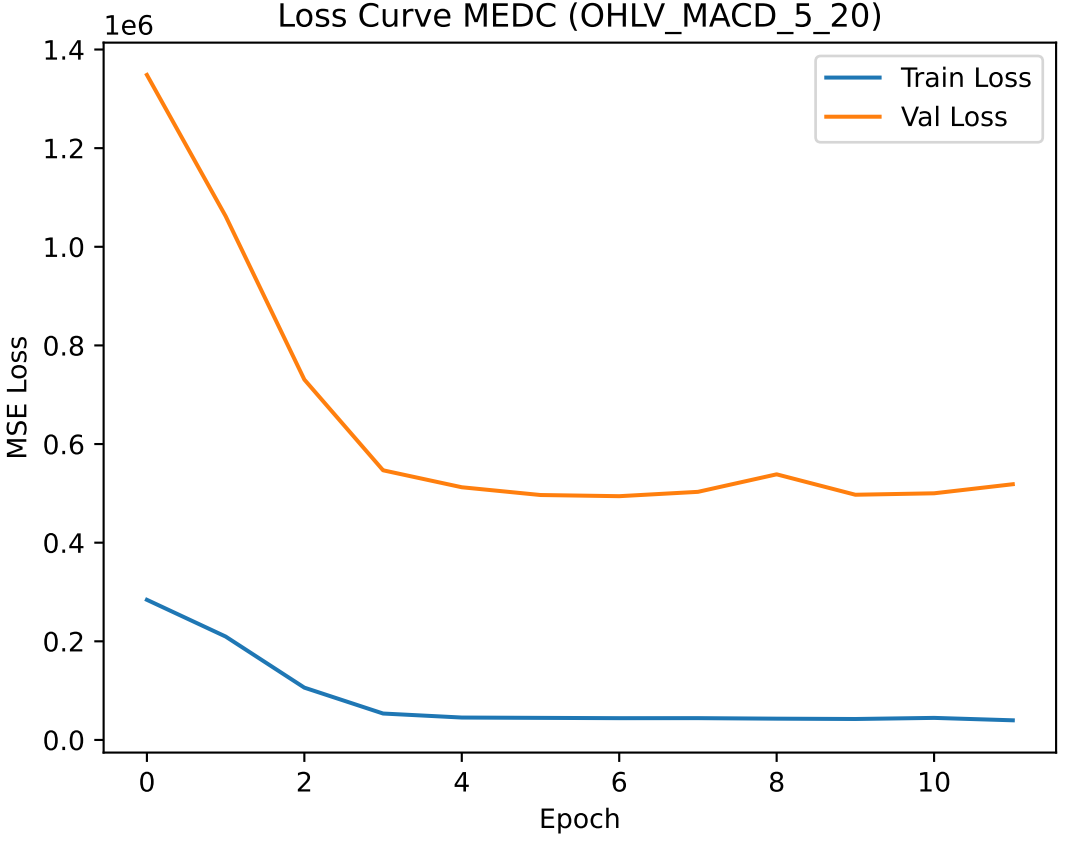

Loss Curve KLBF (OHLV_MACD_5_20)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.5
1.0
1.5
2.0
2.5
0
2
4
6
8
10
12
14

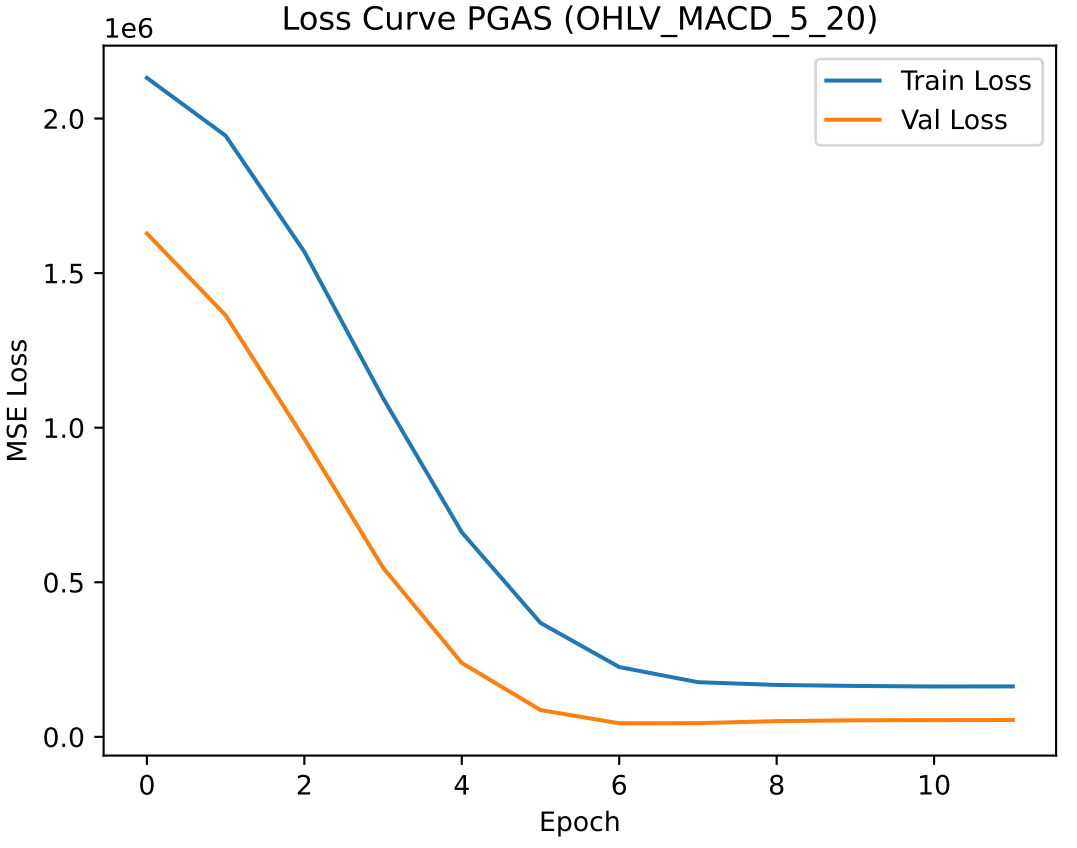

Loss Curve MAPA (OHLV_MACD_5_20)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5

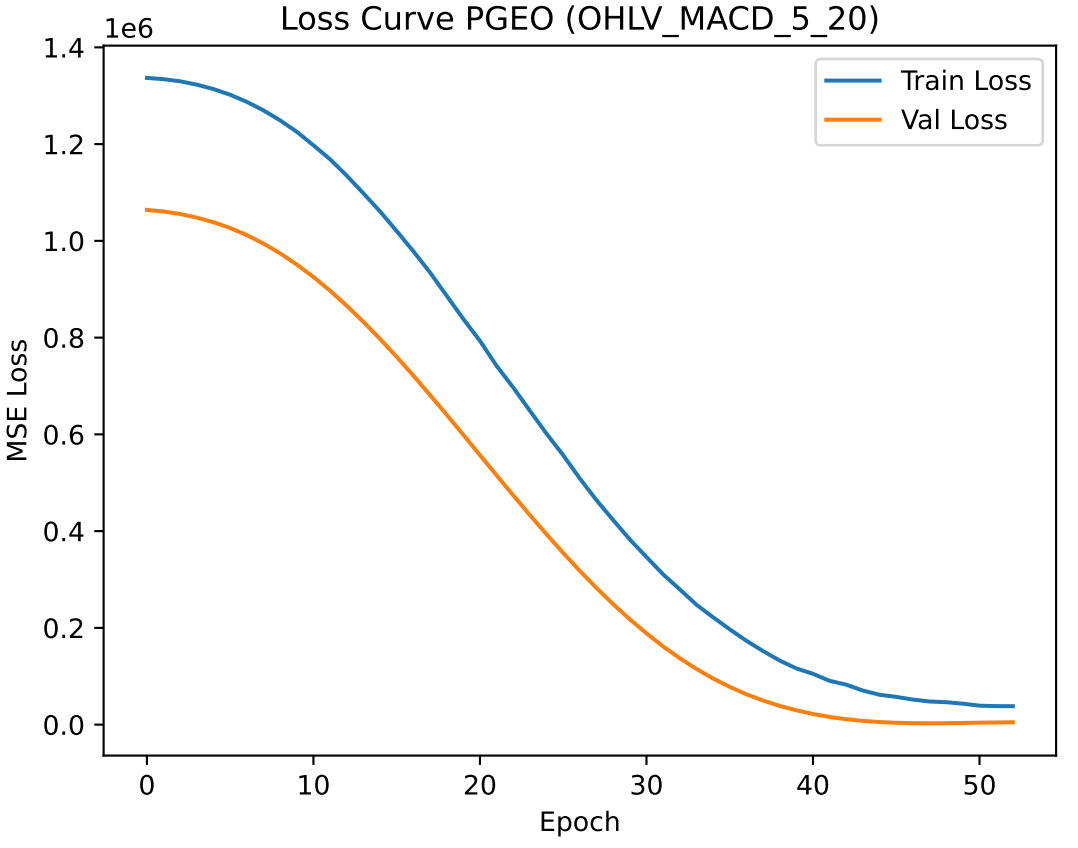

Loss Curve MAPI (OHLV_MACD_5_20)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch

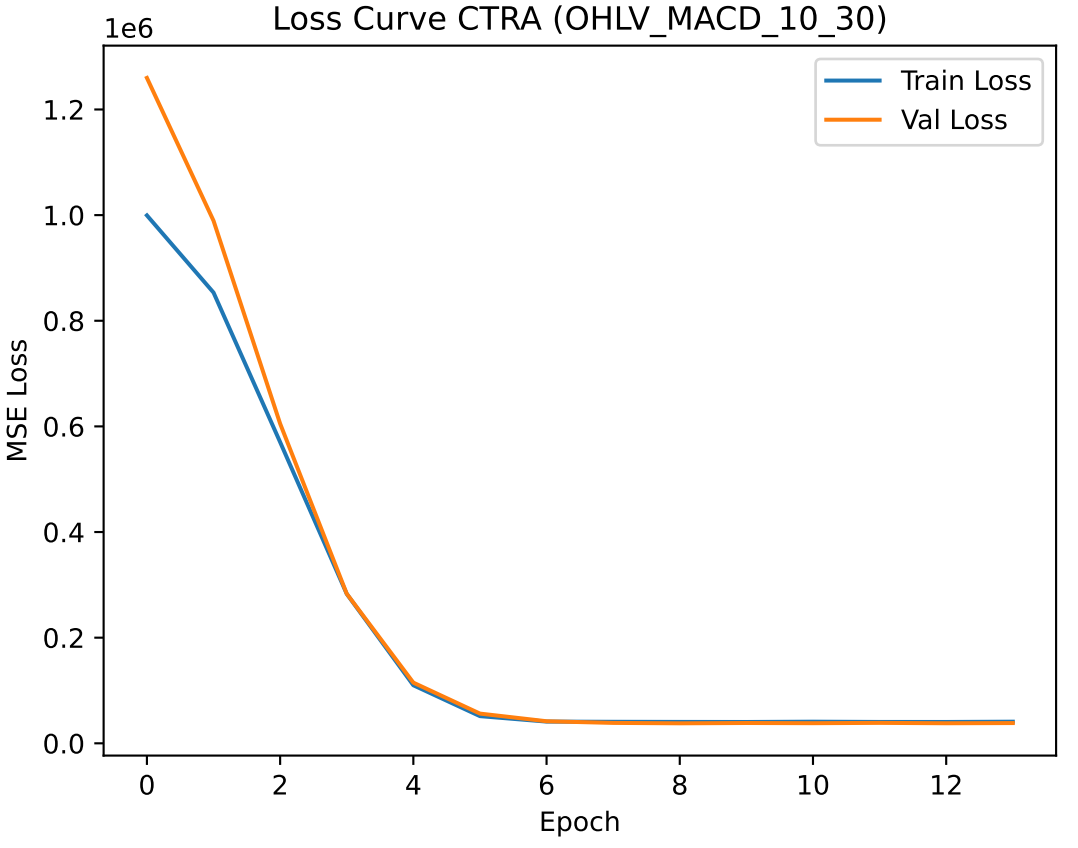

Loss Curve MBMA (OHLV_MACD_5_20)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch

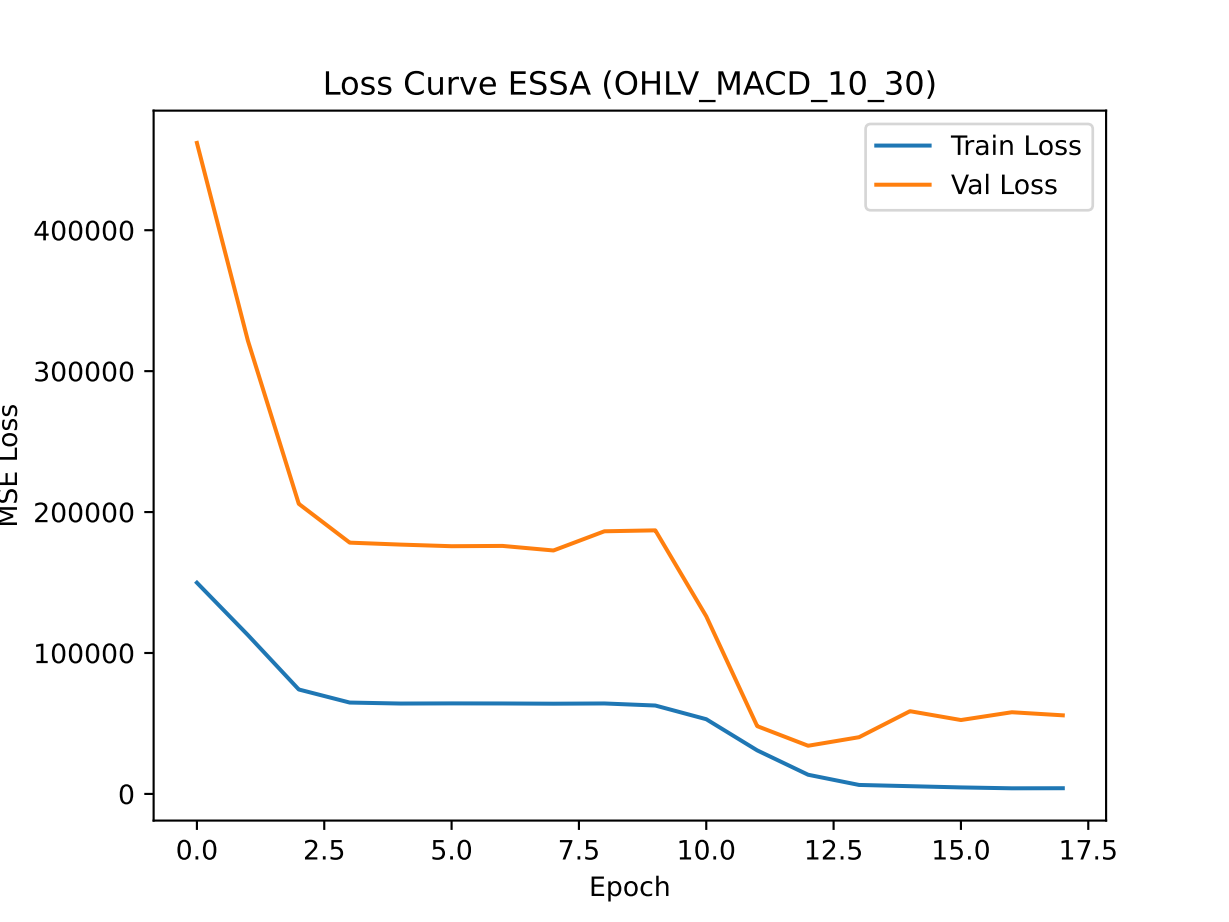

Loss Curve MDKA (OHLV_MACD_5_20)
1e7
Train Loss
Val Loss
MSE Loss
1.2
1.0
0.8
0.6
0.4
0.2
0
2
4
6
8
10
12
14
Epoch

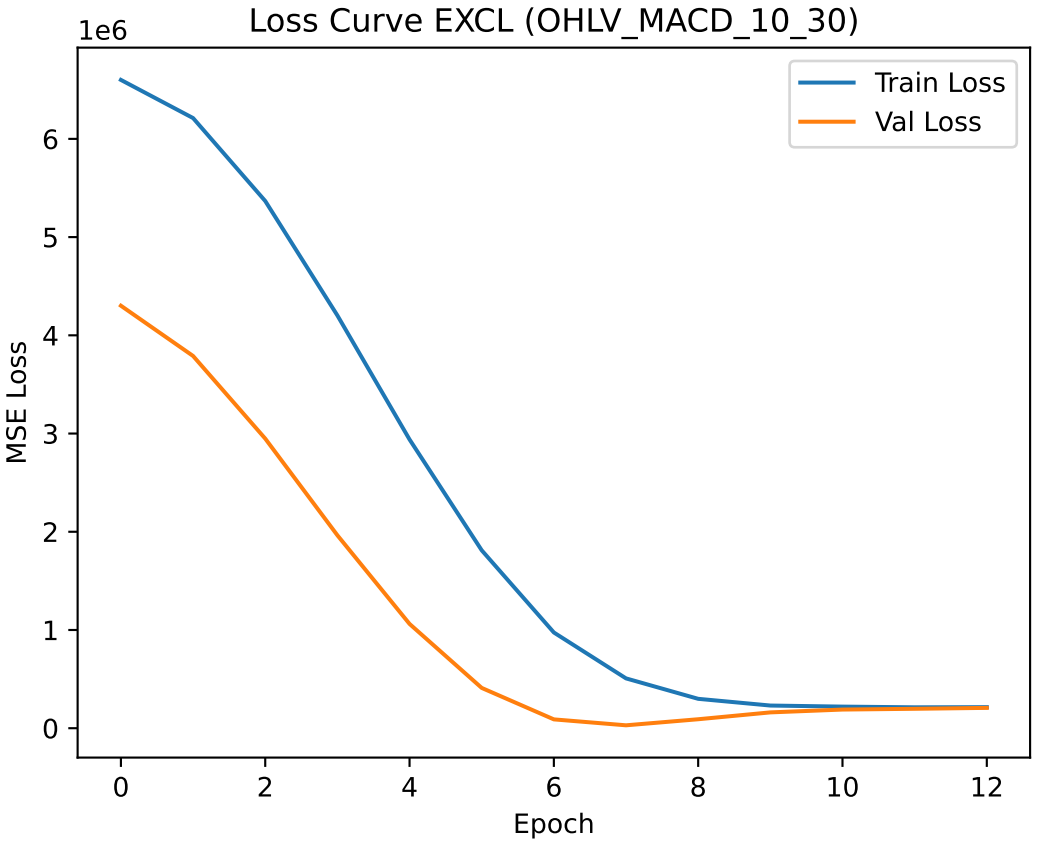

Loss Curve MEDC (OHLV_MACD_5_20)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
2
4
6
8
10
Epoch

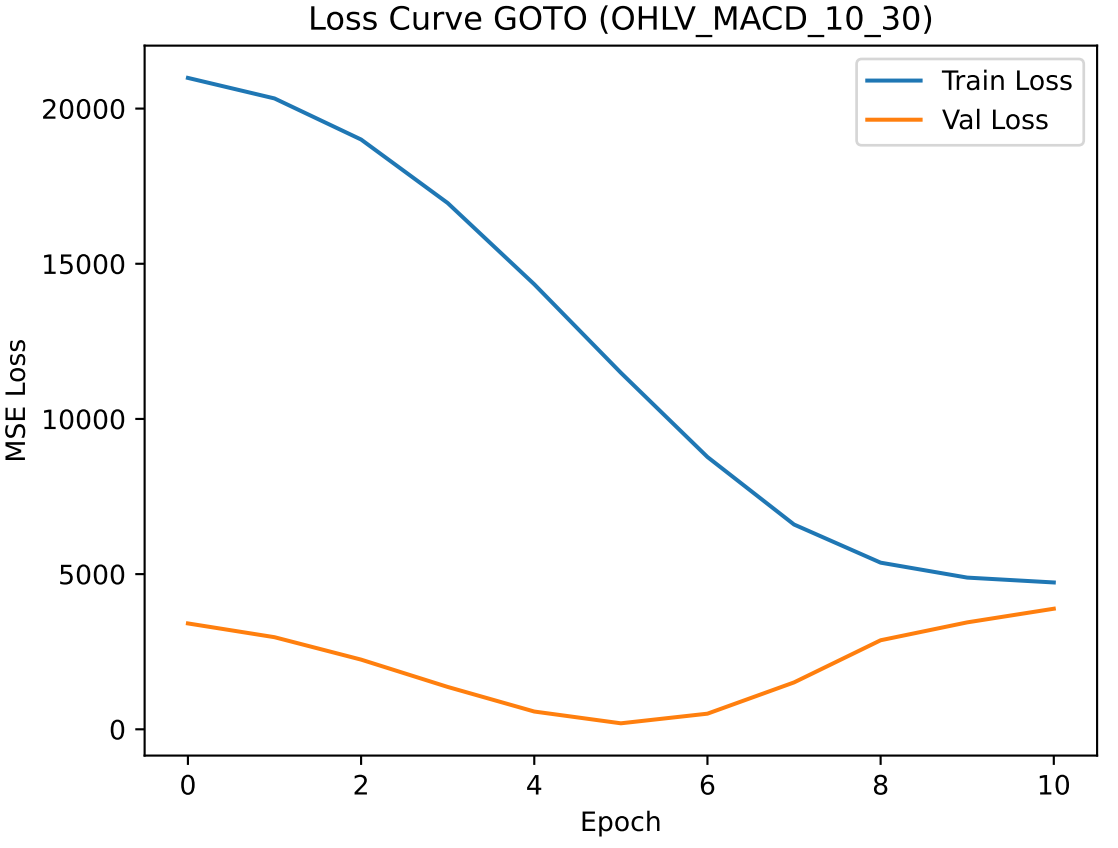

Loss Curve PGAS (OHLV_MACD_5_20)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch

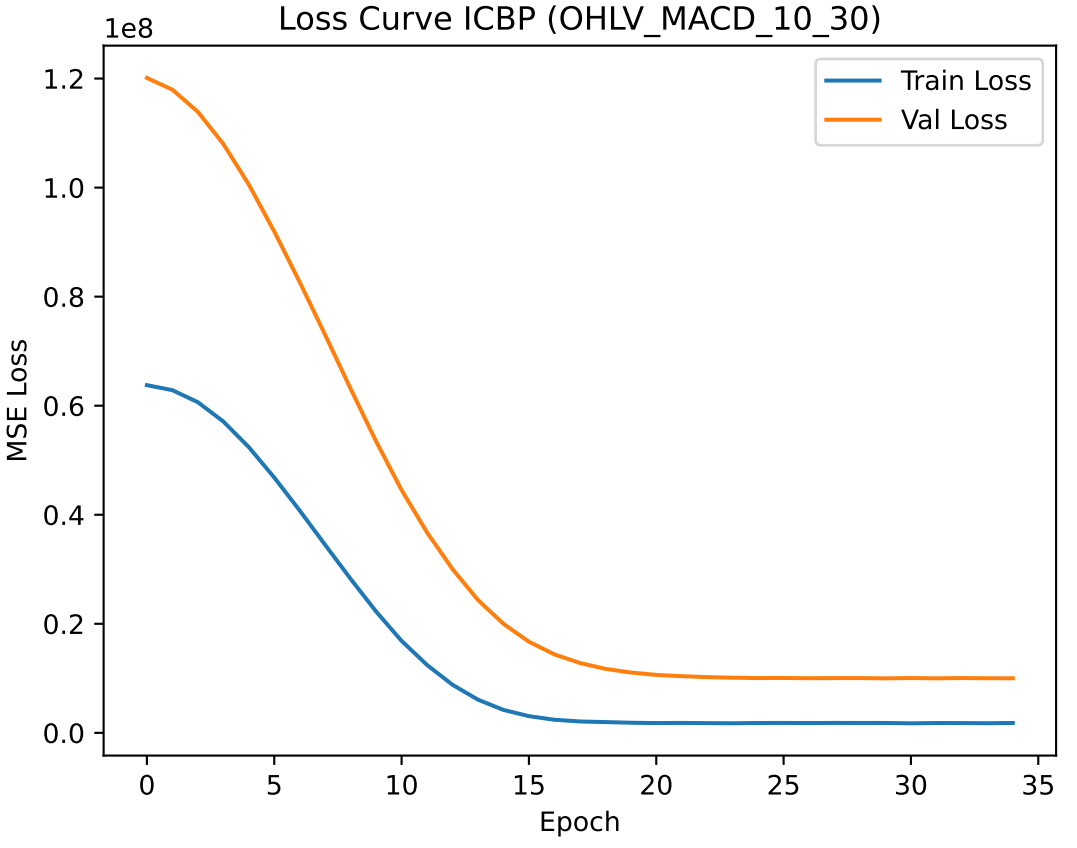

Loss Curve PGEO (OHLV_MACD_5_20)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch

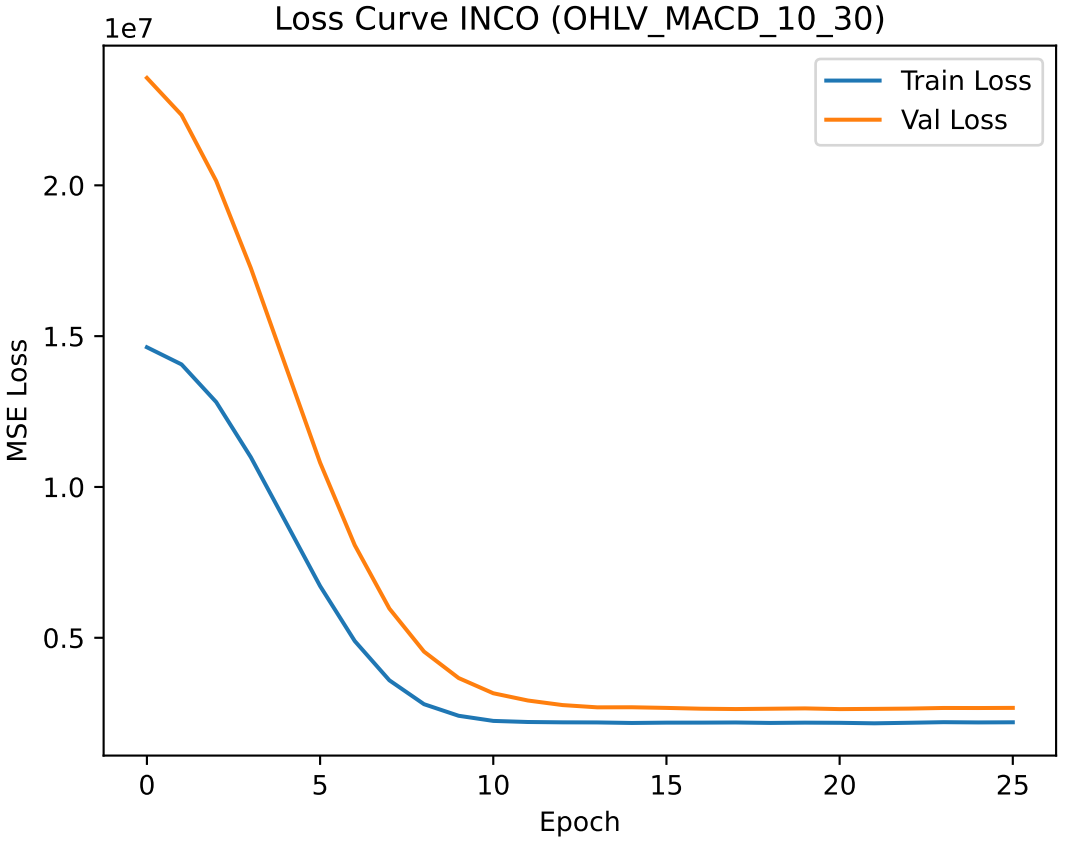

Loss Curve CTRA (OHLV_MACD_10_30)
1e6
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
0
2
4
6
8
10
12
Epoch
Train Loss
Val Loss

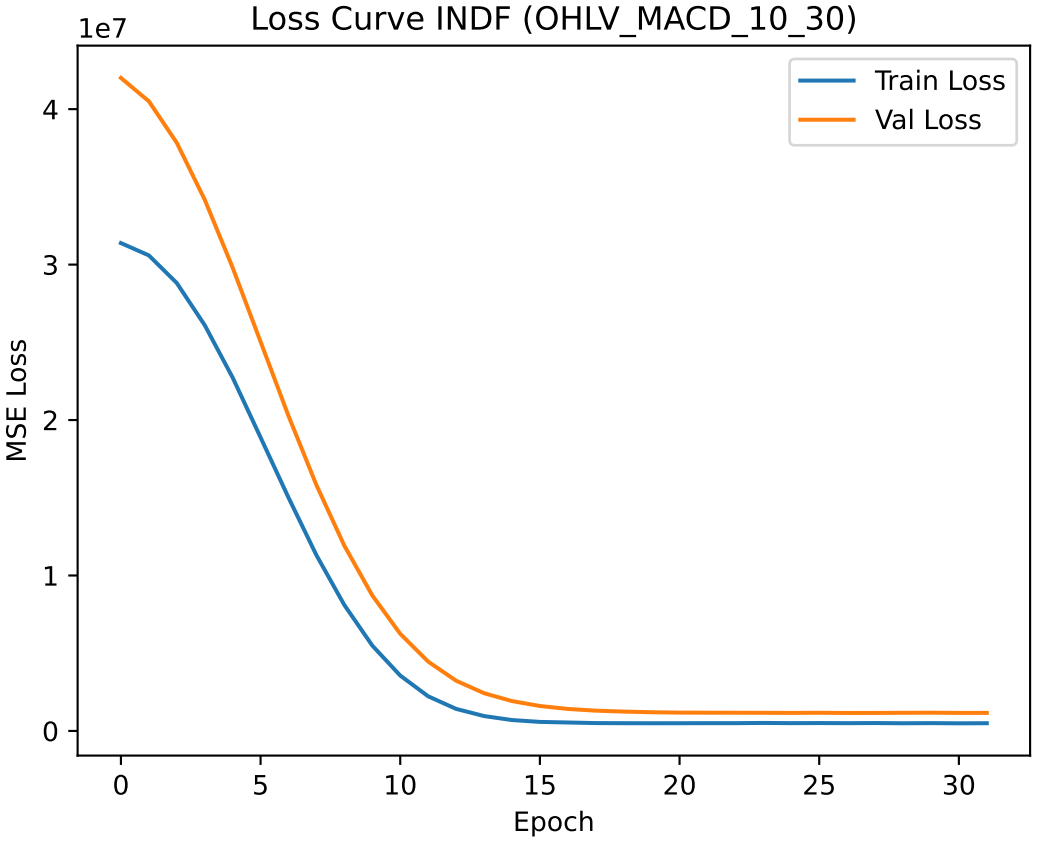

Loss Curve ESSA (OHLV_MACD_10_30)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

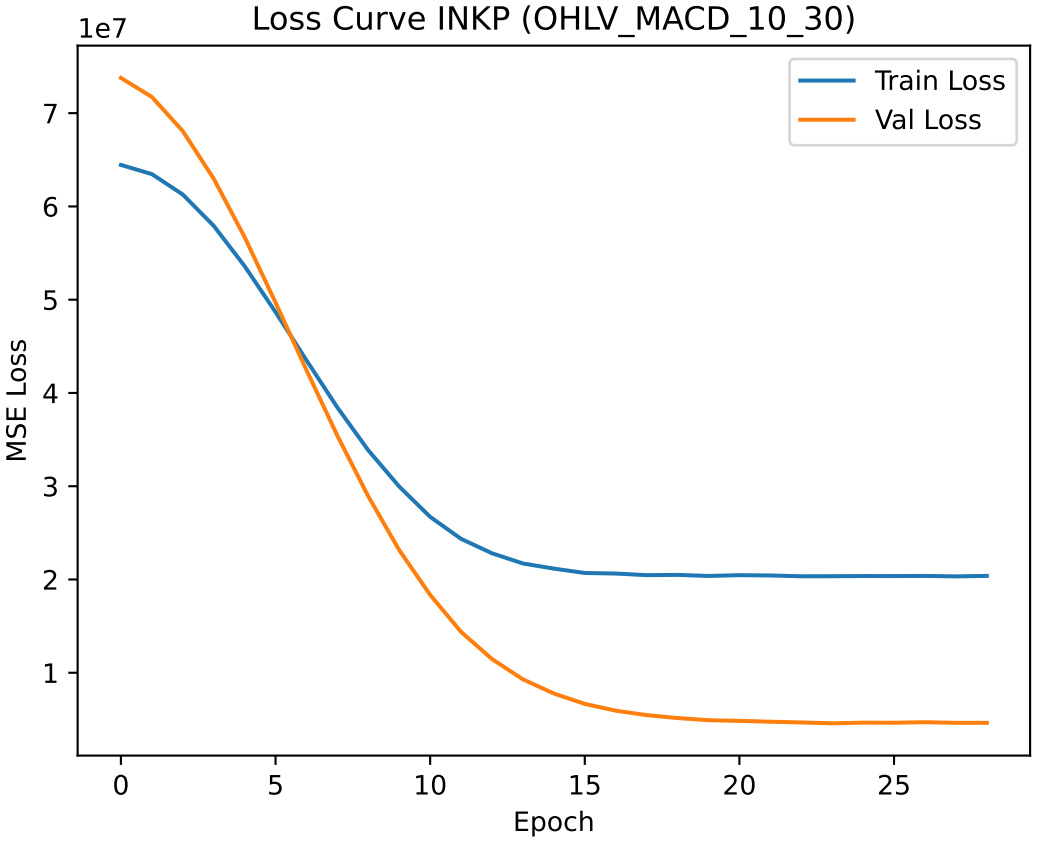

Loss Curve EXCL (OHLV_MACD_10_30)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12

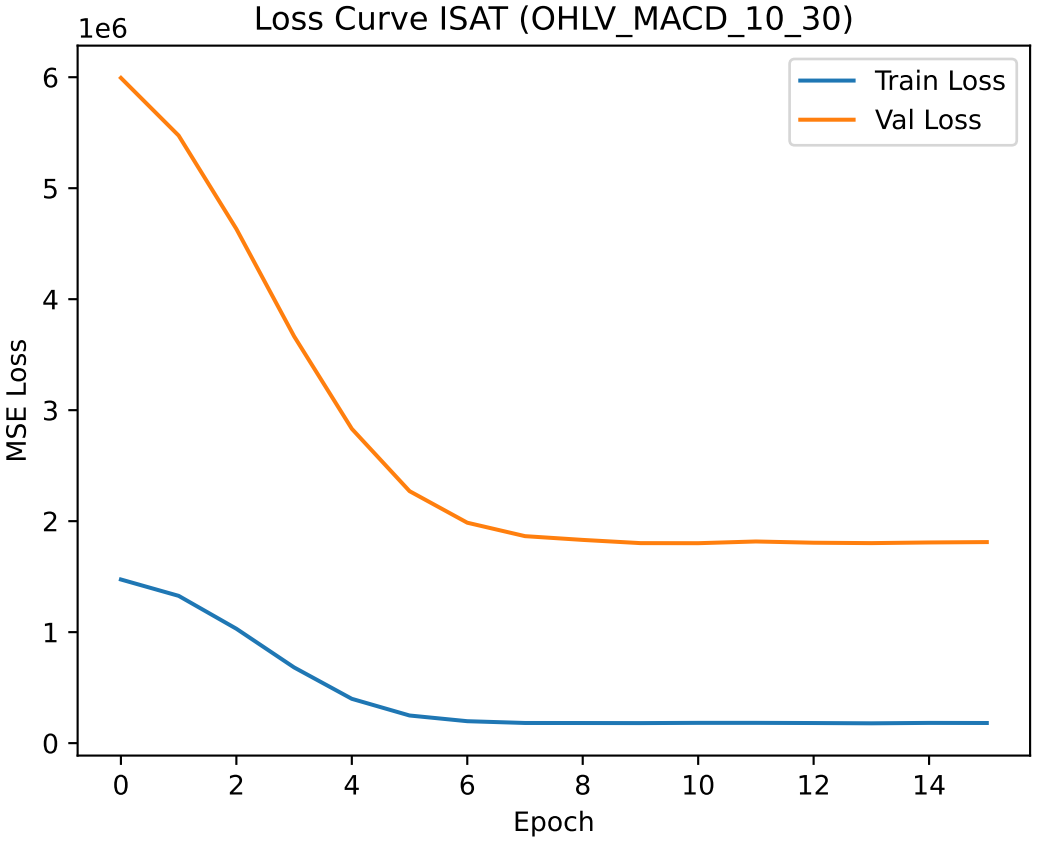

Loss Curve GOTO (OHLV_MACD_10_30)
Train Loss
Val Loss
MSE Loss
20000
15000
10000
5000
0
0
2
4
6
8
10
Epoch

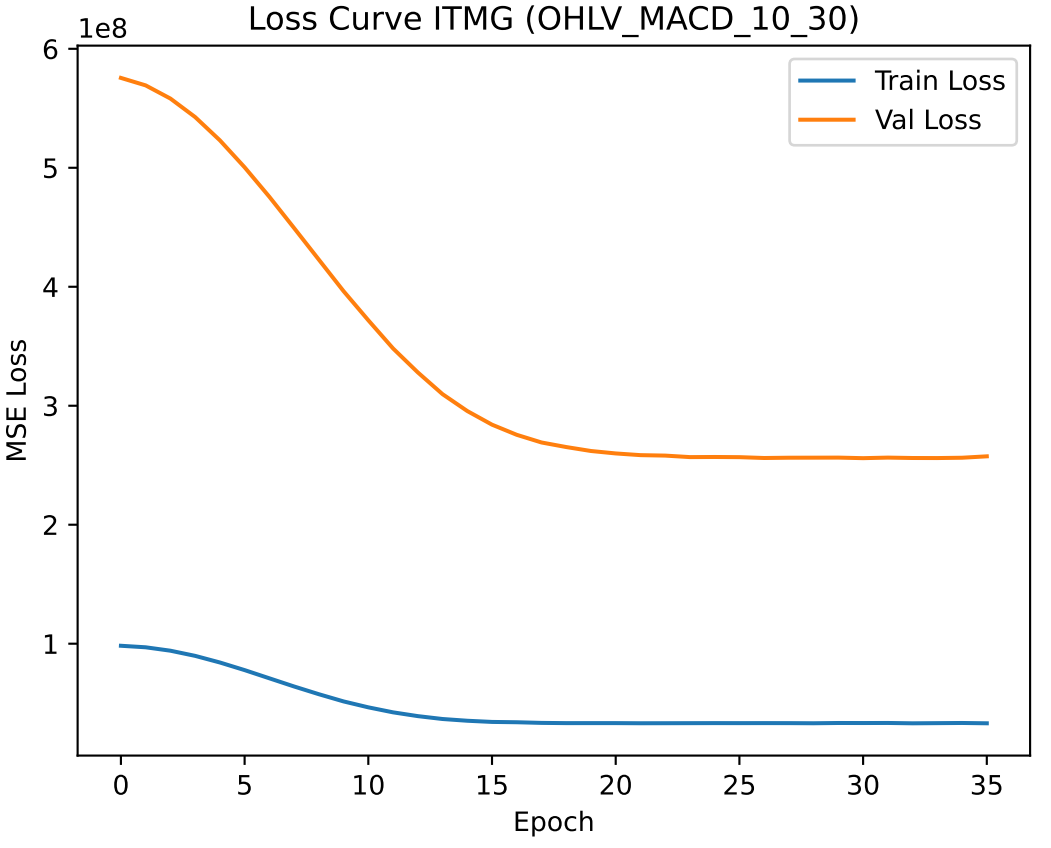

Loss Curve ICBP (OHLV_MACD_10_30)
1e8
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

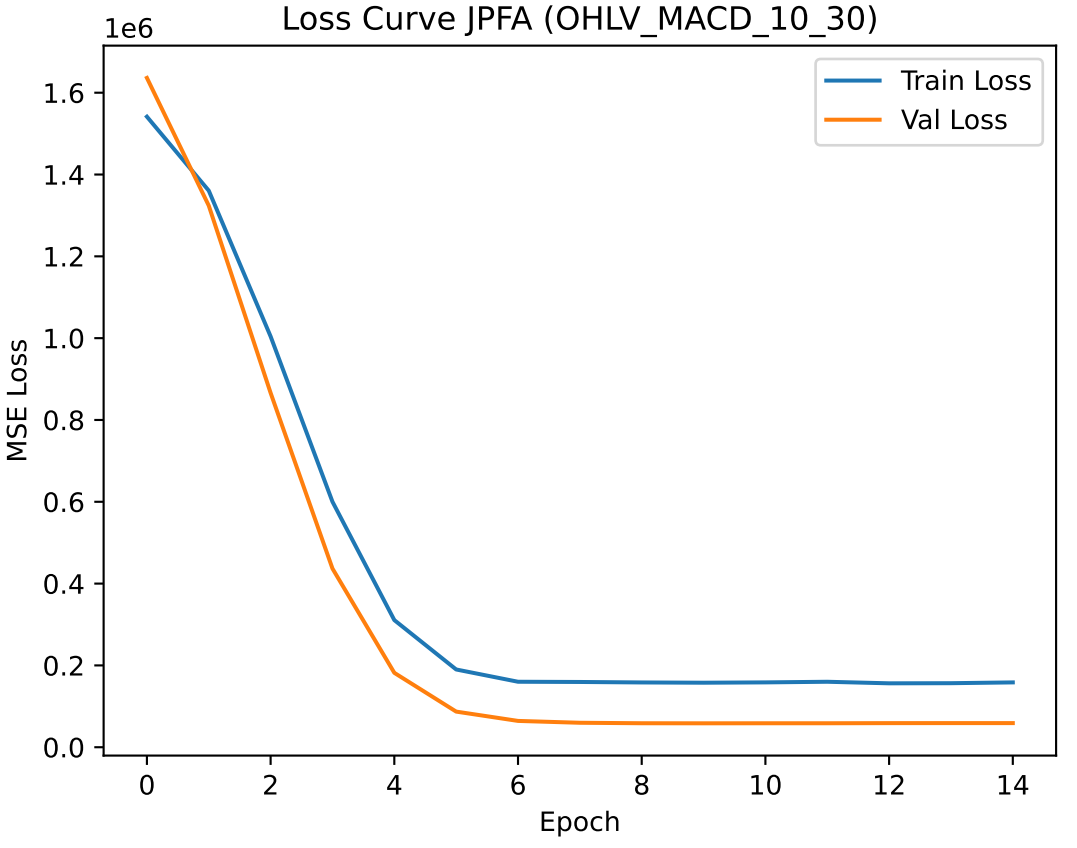

Loss Curve INCO (OHLV_MACD_10_30)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0
5
10
15
20
25
Epoch

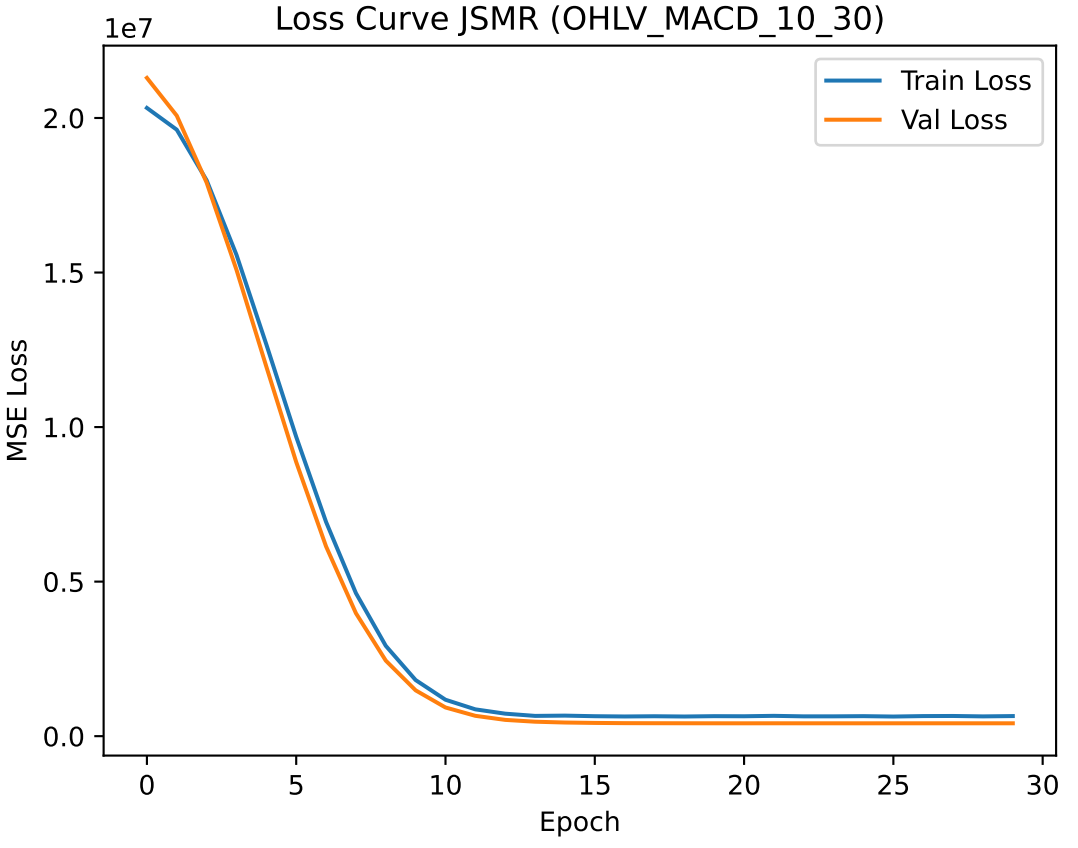

Loss Curve INDF (OHLV_MACD_10_30)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
0
5
10
15
20
25
30

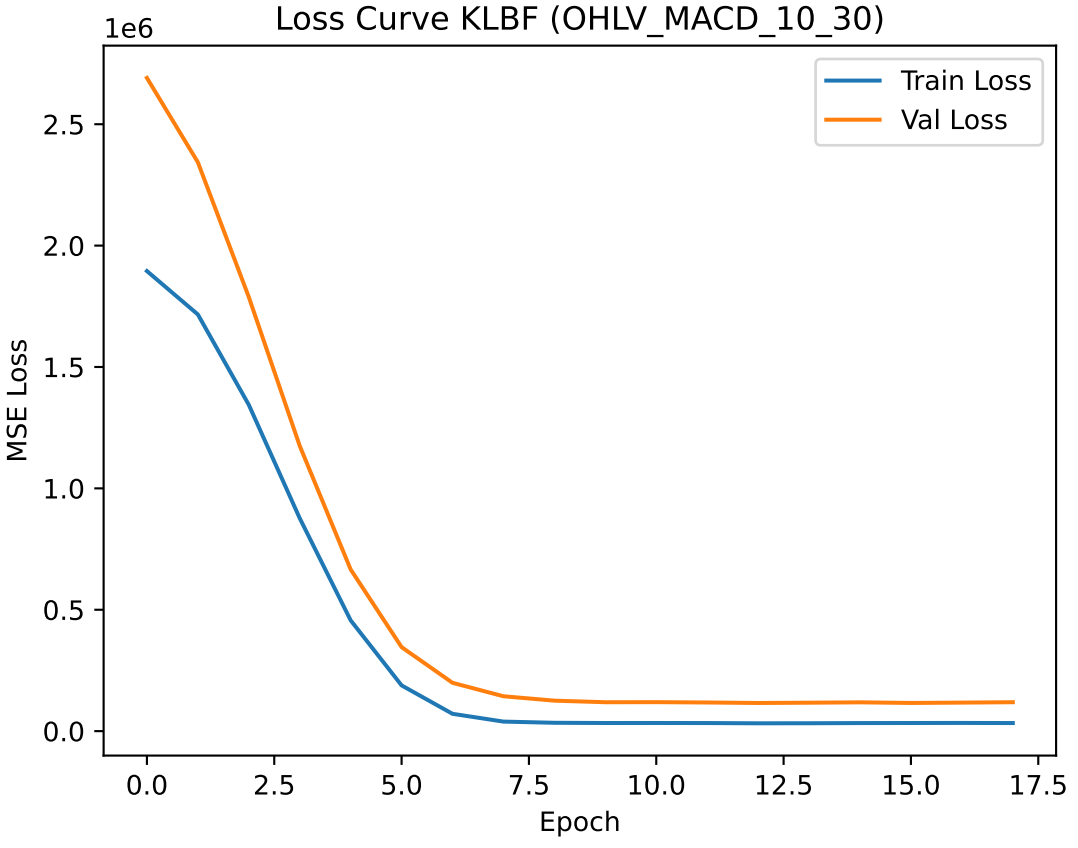

Loss Curve INKP (OHLV_MACD_10_30)
1e7
MSE Loss
Epoch
Train Loss
Val Loss
0
5
10
15
20
25
1
2
3
4
5
6
7

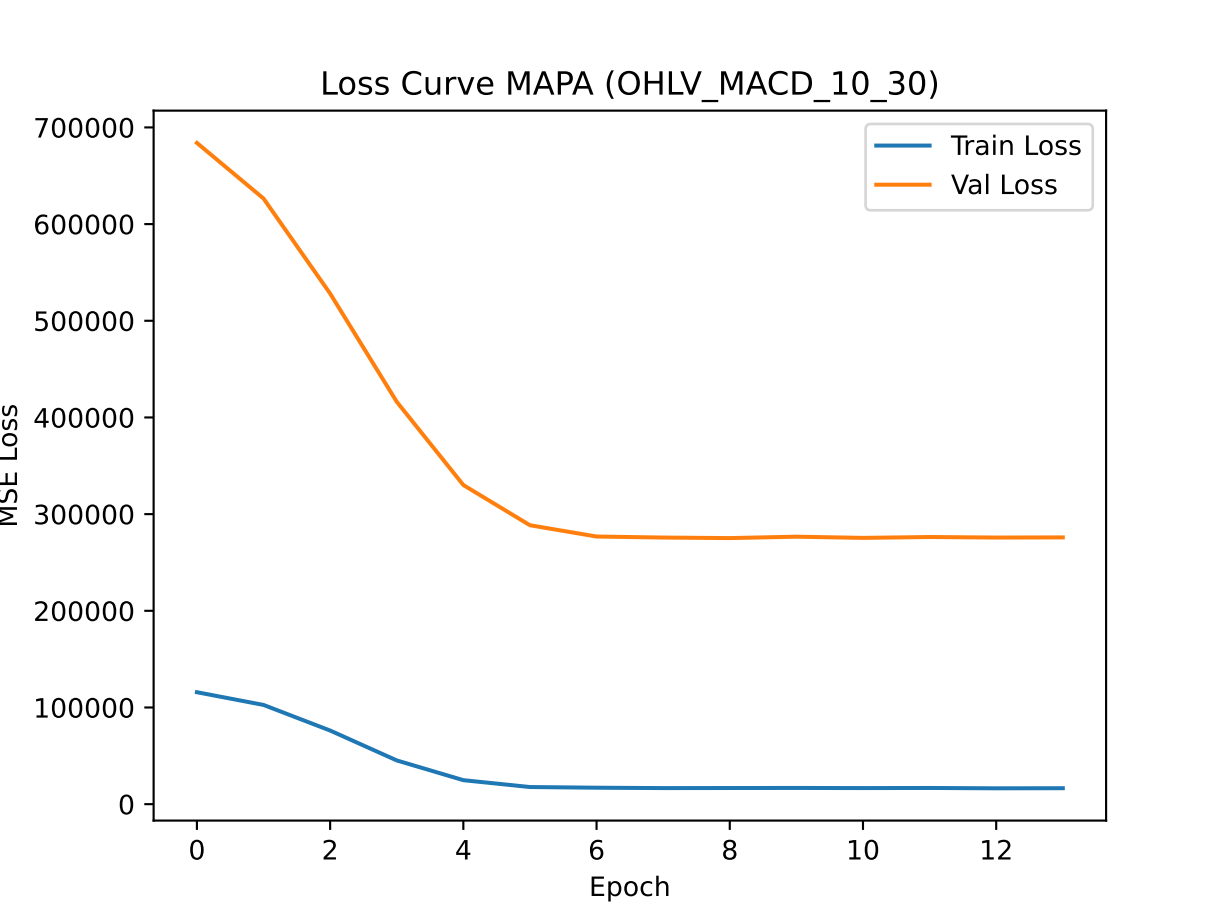

Loss Curve ISAT (OHLV_MACD_10_30)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0
1
2
3
4
5
6
0
2
4
6
8
10
12
14

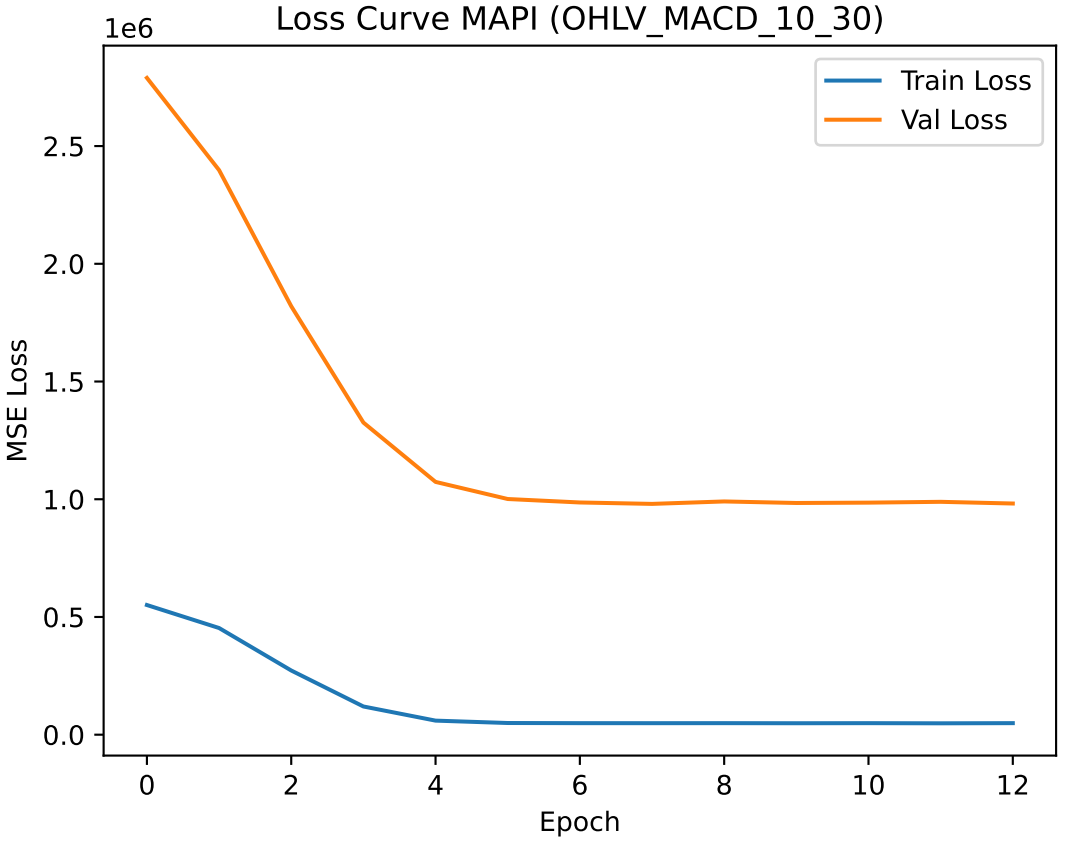

Loss Curve ITMG (OHLV_MACD_10_30)
1e8
6
5
4
3
2
1
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
30
35
Epoch

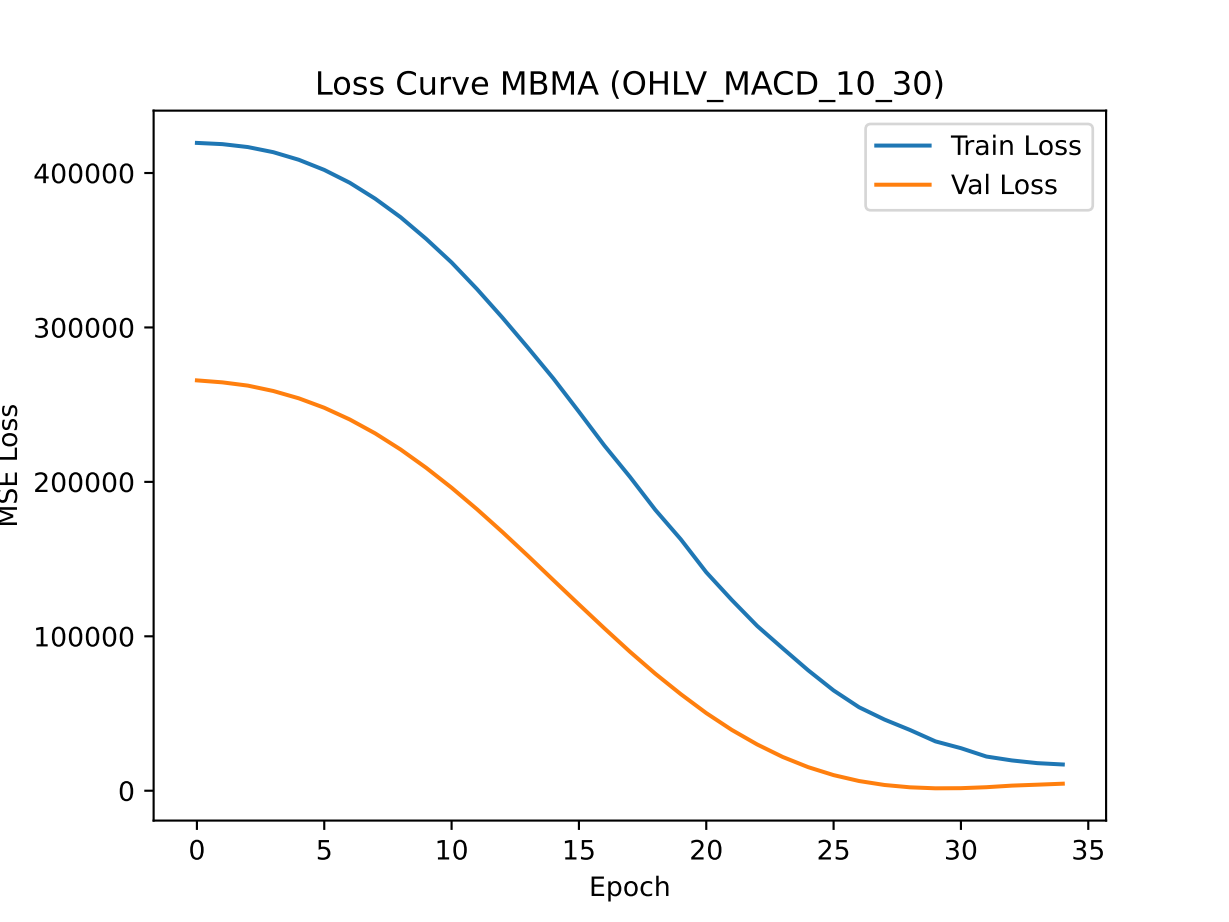

Loss Curve JPFA (OHLV_MACD_10_30)
1e6
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1.6
0
2
4
6
8
10
12
14

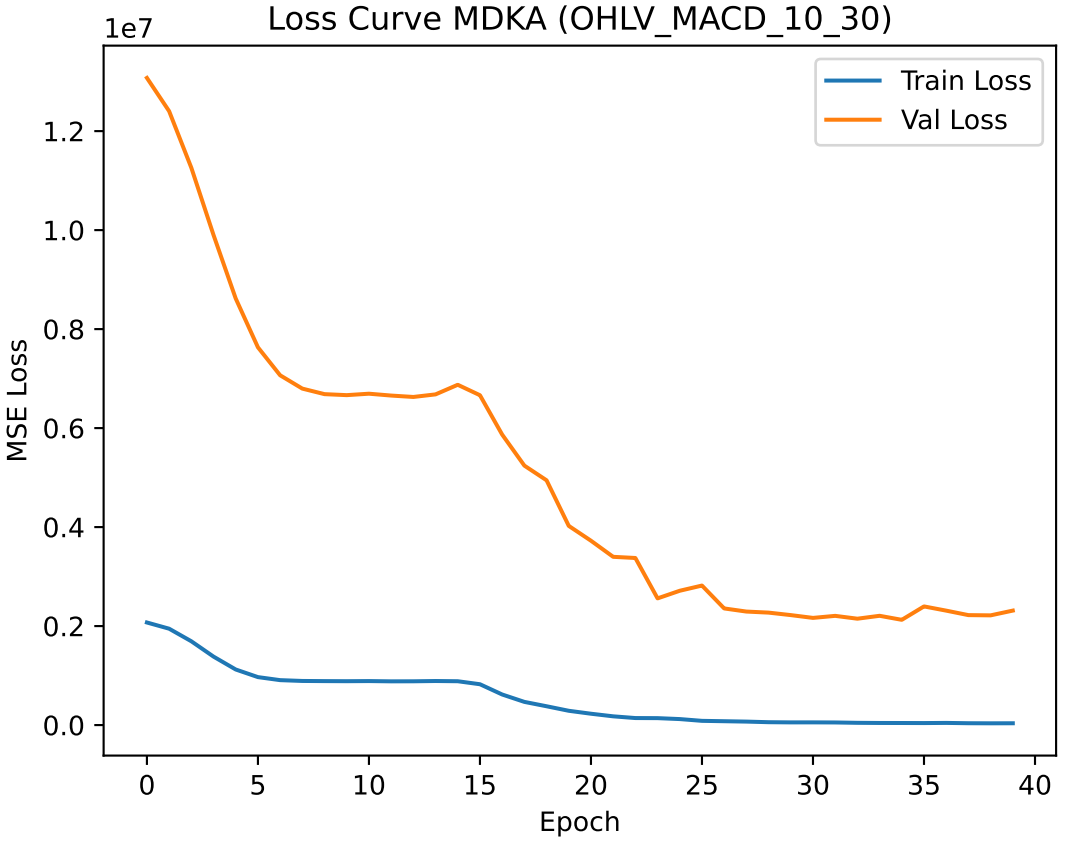

Loss Curve JSMR (OHLV_MACD_10_30)
1e7
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
5
10
15
20
25
30
Epoch

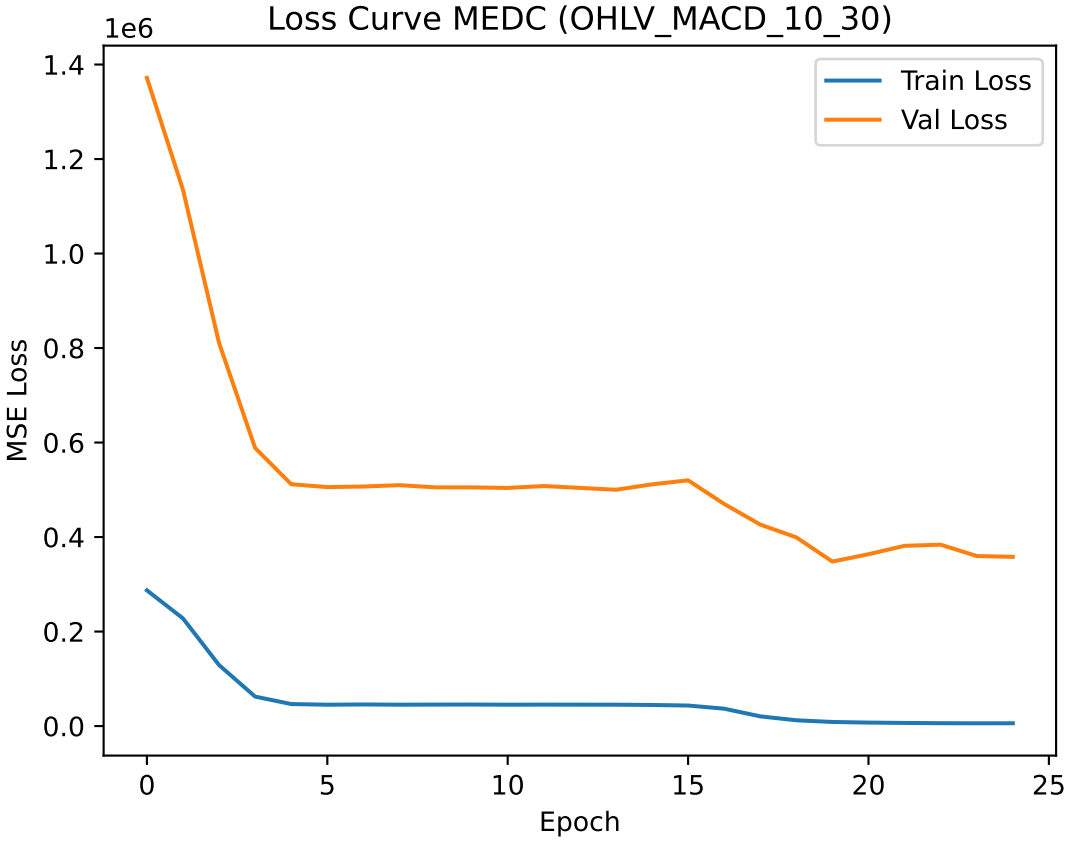

Loss Curve KLBF (OHLV_MACD_10_30)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
Epoch

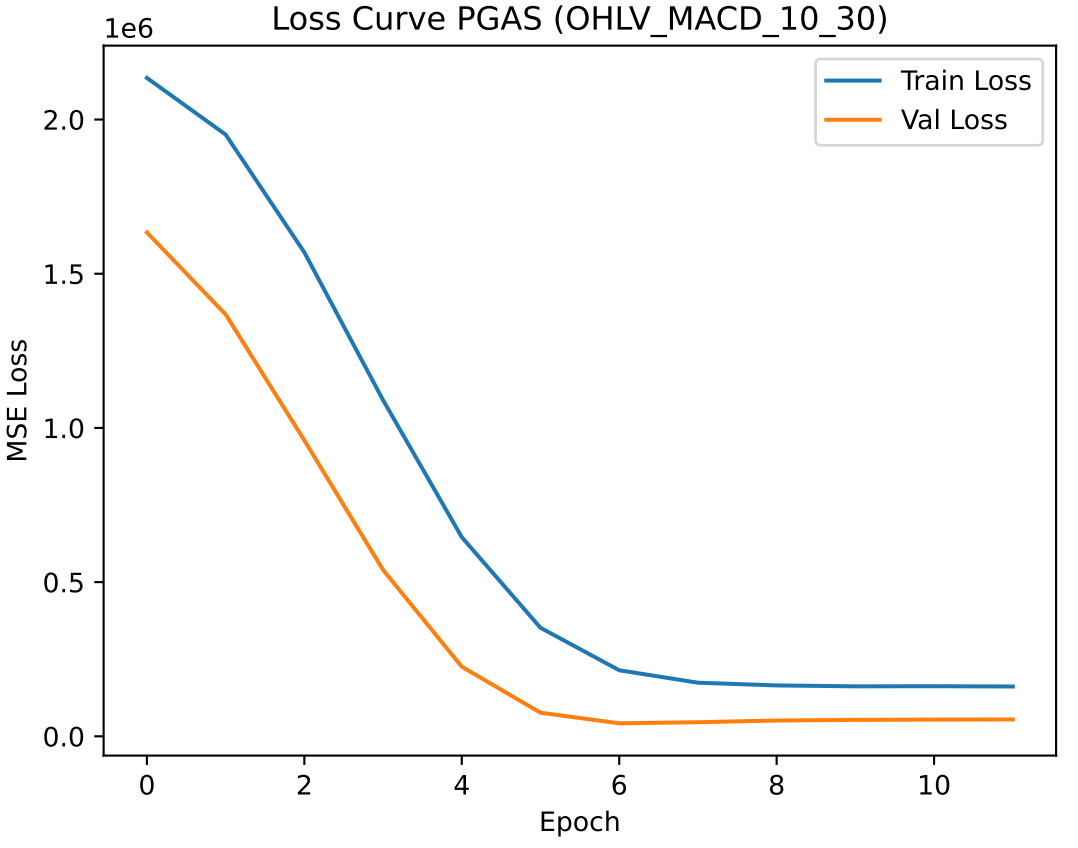

Loss Curve MAPA (OHLV_MACD_10_30)
Train Loss
Val Loss
MSE Loss
Epoch
700000
600000
500000
400000
300000
200000
100000
0
0
2
4
6
8
10
12

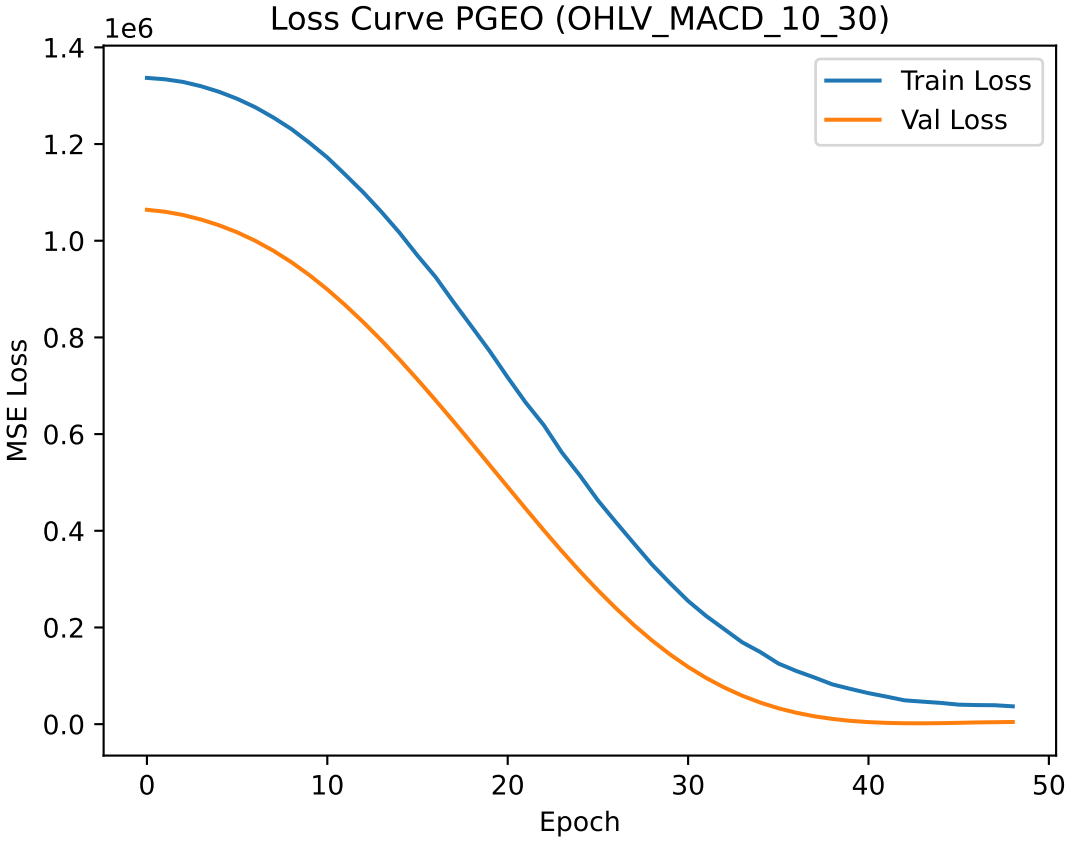

Loss Curve MAPI (OHLV_MACD_10_30)
1e6
Train Loss
Val Loss
MSE Loss
2.5
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
12
Epoch


Loss Curve MBMA (OHLV_MACD_10_30)
Train Loss
Val Loss
400000
300000
200000
100000
0
MSE Loss
0
5
10
15
20
25
30
35
Epoch


Loss Curve MDKA (OHLV_MACD_10_30)
1e7
Train Loss
Val Loss
MSE Loss
Epoch
0.0
0.2
0.4
0.6
0.8
1.0
1.2
0
5
10
15
20
25
30
35
40


Loss Curve MEDC (OHLV_MACD_10_30)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
5
10
15
20
25
Epoch


Loss Curve PGAS (OHLV_MACD_10_30)
1e6
Train Loss
Val Loss
MSE Loss
2.0
1.5
1.0
0.5
0.0
0
2
4
6
8
10
Epoch


Loss Curve PGEO (OHLV_MACD_10_30)
1e6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
MSE Loss
Train Loss
Val Loss
0
10
20
30
40
50
Epoch