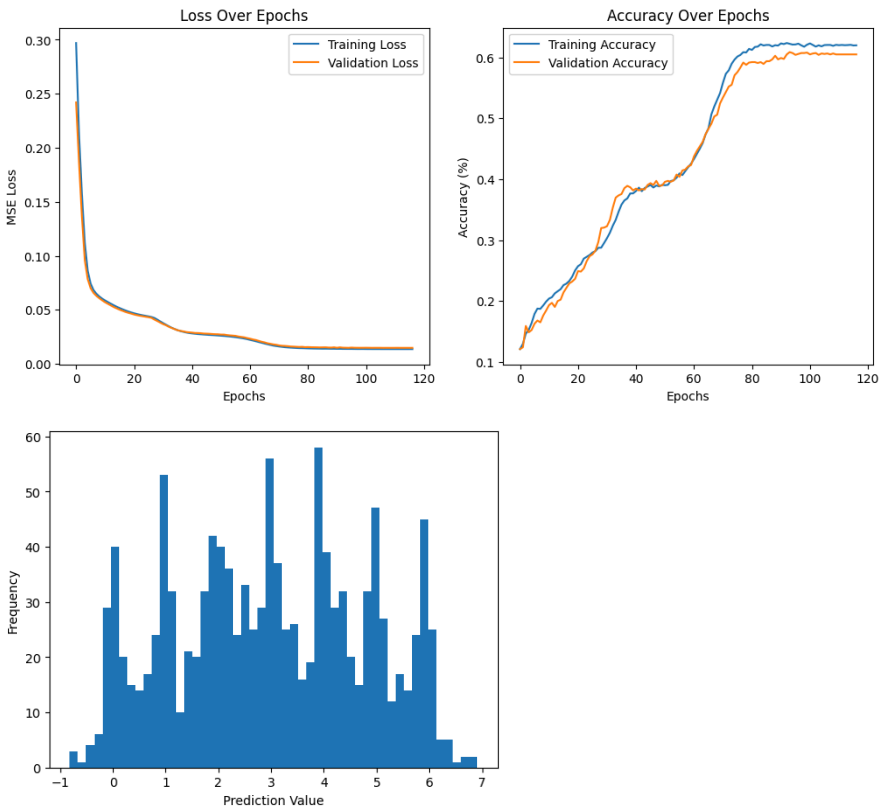


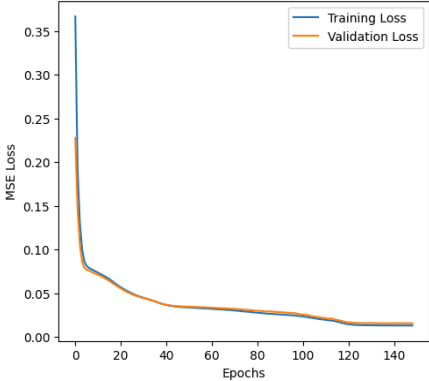
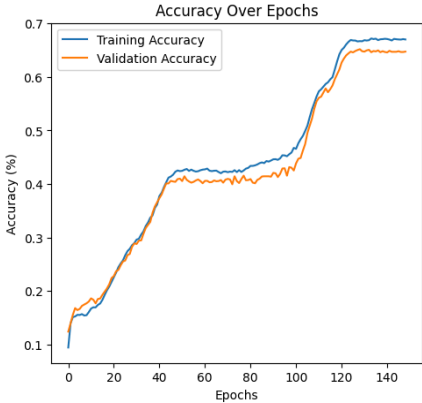
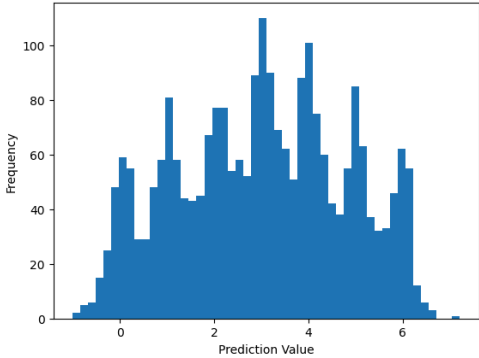
ANN

(6, 7, 2)	
Weights	Total params: 352 (1.38 KB) Trainable params: 352 (1.38 KB) Non-trainable params: 0 (0.00 B)
FLOPs	672
Test Results	Loss: 0.014846100471913815, MSE: 0.015677710995078087, Accuracy: 0.6063987612724304
Inference Time	Average batch inference time over 100 runs: 0.136263 seconds Average inference time per sample (from batch): 0.000681 seconds
R2 score	0.6168
Test set predictions	Comparison of predictions and ground truth: Sample 1: Predicted: [2 2 3 0 1 0 0 0] Ground Truth: [4 1 4 0 0 0 0 0] ----- Sample 2: Predicted: [3 4 6 5 4 6 0 0] Ground Truth: [4 4 6 5 4 6 0 0] ----- Sample 3: Predicted: [3 1 0 2 5 0 0 0] Ground Truth: [3 1 0 2 5 0 0 0] -----
Unseen set predictions	MSE on unseen data: 0.01362967025488615 Accuracy on unseen data: 0.5083333253860474 Sample 1: [6. 3. 4. 6. 2. 4. 0. 0.]: True values [3 4 4 5 3 4 0 0]: Predicted values ----- Sample 2: [4. 6. 1. 2. 6. 2. 0. 0.]: True values [5 5 1 2 5 1 0 0]: Predicted values ----- Sample 3: [2. 4. 3. 2. 5. 4. 0. 0.]: True values [3 3 3 2 4 3 0 0]: Predicted values -----

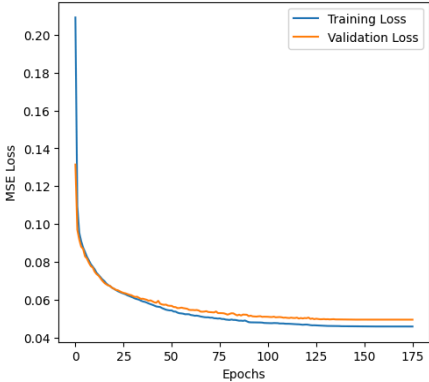
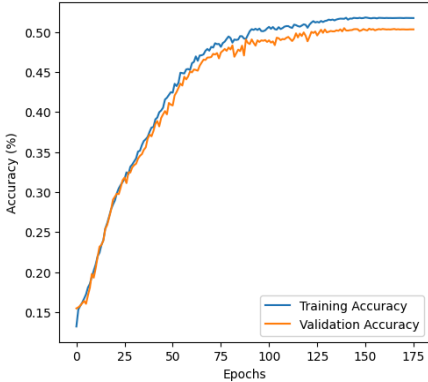
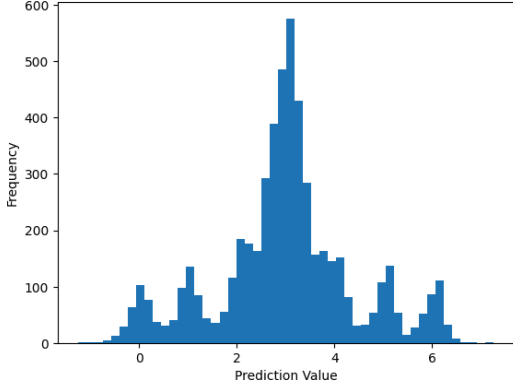
Graphs (Training and on Test set)



(12, 7, 2)	
Weights	Total params: 1,344 (5.25 KB) Trainable params: 1,344 (5.25 KB) Non-trainable params: 0 (0.00 B)
FLOPs	2624
Test Results	Loss: 0.015657471492886543, MSE: 0.014923169277608395, Accuracy: 0.6480655074119568
Inference Time	Average batch inference time over 100 runs: 0.098268 seconds Average inference time per sample (from batch): 0.000491 seconds
R2 score	0.6081
Test set predictions	Comparison of predictions and ground truth: Sample 1: Predicted: [5 0 1 3 3 0 6 1 6 6 6 6 0 0 0 0] Ground Truth: [4 0 1 2 3 0 6 1 6 6 6 6 0 0 0 0] -----

	<div>Sample 2: Predicted: [2 5 4 2 0 1 1 3 3 3 1 4 0 0 0 0] Ground Truth: [0 6 3 0 1 1 2 3 4 3 1 4 0 0 0 0] -----</div> <div>Sample 3: Predicted: [3 4 3 4 3 1 6 5 1 5 0 2 0 0 0 0] Ground Truth: [5 4 3 5 3 1 6 5 1 5 0 2 0 0 0 0] -----</div>
Unseen set predictions	<div>MSE on unseen data: 0.012187251821160316 Accuracy on unseen data: 0.762499988079071 Sample 1: [6. 3. 4. 6. 2. 4. 4. 6. 1. 2. 6. 2. 0. 0. 0. 0.]: True values [3 3 3 4 3 4 5 6 2 2 6 2 0 0 0 0]: Predicted values -----</div> <div>Sample 2: [2. 4. 3. 2. 5. 4. 1. 3. 5. 5. 1. 3. 0. 0. 0. 0.]: True values [3 4 4 3 5 4 1 3 5 5 1 3 0 0 0 0]: Predicted values -----</div> <div>Sample 3: [4. 0. 3. 1. 5. 4. 3. 0. 0. 2. 2. 6. 0. 0. 0. 0.]: True values [4 1 3 1 5 4 3 0 0 2 2 6 0 0 0 0]: Predicted values -----</div>
Graphs (Training and on Test set)	<div><div><div>Loss Over Epochs</div></div><div><div>Accuracy Over Epochs</div></div><div></div></div>

(27, 7, 2)	
Weights	Total params: 5,248 (20.50 KB) Trainable params: 5,248 (20.50 KB) Non-trainable params: 0 (0.00 B)
FLOPs	10368
Test Results	Loss: 0.04948757588863373, MSE: 0.04956365004181862, Accuracy: 0.5038028955459595
Inference Time	Average batch inference time over 100 runs: 0.094070 seconds Average inference time per sample (from batch): 0.000470 seconds
R2 score	0.3993
Test set predictions	Comparison of predictions and ground truth: Sample 1: Predicted: [3 3 3 3 3 3 3 3 4 3 3 2 4 1 2 2 5 1 4 3 4 4 6 5 2 3 1 0 0 0 0 0] Ground Truth: [5 6 5 1 3 4 1 1 6 2 3 1 4 0 3 2 5 1 4 3 4 4 6 5 2 3 1 0 0 0 0 0] ----- Sample 2: Predicted: [4 3 3 3 3 3 3 2 2 3 3 3 3 2 3 1 1 2 0 1 1 5 2 1 4 0 4 0 0 0 0 0] Ground Truth: [1 4 1 3 3 3 0 5 5 2 4 3 3 1 3 1 1 2 0 1 1 5 2 1 4 0 4 0 0 0 0 0] ----- Sample 3: Predicted: [3 3 3 3 3 3 3 3 3 3 3 3 3 2 4 3 3 5 1 4 6 0 4 3 2 3 4 4 0 0 0 0 0] Ground Truth: [2 6 0 2 2 1 3 4 2 6 4 1 0 5 2 3 5 1 4 6 0 4 3 2 3 4 4 0 0 0 0 0] -----
Unseen set predictions	MSE on unseen data: 0.046521034091711044 Accuracy on unseen data: 0.5148147940635681 Sample 1: [6. 3. 4. 6. 2. 4. 4. 6. 1. 2. 6. 2. 2. 4. 3. 2. 5. 4. 1. 3. 5. 5. 1. 3. 4. 0. 3. 0. 0. 0. 0. 0.]: True values [3 3 3 3 3 3 3 3 3 3 3 3 3 4 3 2 5 4 1 3 5 5 1 3 4 0 3 0 0 0 0 0]: Predicted values ----- Sample 2: [1. 5. 4. 3. 0. 0. 2. 2. 6. 1. 3. 3. 6. 5. 5. 6. 5. 2. 3. 6. 3. 0. 2. 4. 2. 6. 4. 0. 0. 0. 0. 0.]: True values [3 3 3 3 3 3 3 3 3 3 3 4 5 4 4 6 5 2 3 6 3 0 2 4 2 6

	<div>4 0 0 0 0 0]: Predicted values</div> <div>-----</div> <div>Sample 3:</div> <div>[0. 6. 1. 3. 0. 3. 5. 1. 1. 0. 1. 4. 1. 3. 3. 6. 3.</div> <div>6. 3. 4. 6. 2. 5. 0.</div> <div>3. 1. 3. 0. 0. 0. 0. 0.] : True values</div> <div>[3 3 3 4 3 4 3 4 3 3 3 3 3 2 5 3 5 3 4 6 2 5 0 3 1</div> <div>3 0 0 0 0 0]: Predicted values</div> <div>-----</div>
Graphs (Training and on Test set)	<div><div>Loss Over Epochs</div><div>Accuracy Over Epochs</div><div></div></div>

(48, 13, 2)	
Weights	<div>Total params: 20,736 (81.00 KB)</div> <div>Trainable params: 20,736 (81.00 KB)</div> <div>Non-trainable params: 0 (0.00 B)</div>
FLOPs	41216
Test Results	Loss: 0.0545484684407711, MSE: 0.054171182215213776, Accuracy: 0.2111235111951828
Inference Time	Average batch inference time over 100 runs: 0.093634 seconds

	Average inference time per sample (from batch): 0.000468 seconds
R2 score	0.1873
Test set predictions	<div>Comparison of predictions and ground truth:</div> <div>Sample 1:</div> <div>Predicted: [7 5 6 5 6 5 6 6 6 5 7 5 6 6 5 5 6 6 6 6 5 6 6 5 5 6 6 7 7 7 6 6 5 5 3 6 6 12 9 4 9 7 0 10 11 2 7 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]</div> <div>Ground Truth: [6 6 0 9 4 7 7 2 2 6 3 5 8 9 1 1 5 2 0 1 12 6 3 11 1 10 11 11 7 3 3 1 0 0 2 5 6 12 8 4 8 7 0 10 11 2 7 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]</div> <div>-----</div> <div>Sample 2:</div> <div>Predicted: [6 8 6 6 7 7 6 8 6 5 7 6 7 6 6 8 4 7 6 6 5 4 7 6 6 6 7 7 6 6 6 7 4 8 6 0 9 5 2 6 0 10 11 11 3 7 10 9 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 1]</div> <div>Ground Truth: [0 10 3 8 3 0 3 6 2 9 5 0 10 3 2 0 2 3 4 5 1 1 5 4 0 2 10 4 12 11 11 1 0 8 4 1 9 3 2 6 0 9 11 11 3 6 10 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]</div> <div>-----</div> <div>Sample 3:</div> <div>Predicted: [7 6 8 6 6 6 6 6 6 6 7 6 6 6 5 5 6 6 7 5 6 6 5 6 7 6 6 7 7 6 6 7 7 7 4 4 3 9 12 1 11 7 6 8 13 8 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]</div> <div>Ground Truth: [2 12 10 4 3 0 0 6 3 0 5 10 11 10 11 10 10 0 7 11 12 8 10 2 6 12 4 2 4 9 6 6 8 7 3 4 4 9 11 1 11 6 6 8 12 8 3 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]</div> <div>-----</div>
Unseen set predictions	<div>MSE on unseen data: 0.051177412271499634</div> <div>Accuracy on unseen data: 0.16770833730697632</div> <div>Sample 1:</div> <div>[6. 3. 12. 10. 7. 12. 4. 6. 9. 2. 6. 10. 10. 7. 4. 3. 7. 7. 2. 5. 4. 1. 7. 11. 5. 1. 11. 4. 0. 11. 9. 5. 12. 11. 8. 0. 10. 10. 9. 11. 11. 2. 11. 6. 3. 8. 2. 4. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]</div> <div>: True values</div> <div>[6 7 7 7 7 7 6 6 7 5 7 6 6 8 8 8 8</div>

```

6 8 6 6 8 5 7
6 5 7 5 6 6 7 8 8 8 7 -1 10 10 10 12 12
2 12 6 3 9 2 5
0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0]:

```

Predicted values

Sample 2:

```

[ 2. 6. 4. 8. 6. 1. 3. 8. 11. 1. 9. 8. 9.
4. 1. 3. 11. 11.
6. 11. 12. 7. 2. 0. 3. 1. 7. 3. 1. 5. 5.
9. 3. 5. 12. 1.
9. 11. 1. 9. 3. 7. 6. 11. 8. 7. 4. 12. 0.
0. 0. 0. 0. 0.
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]: True

```

values

```

[ 6 7 6 6 7 6 6 7 7 6 7 7 7 7 7 7 8
7 7 8 5 5 6 6
6 6 7 6 8 8 7 8 4 7 7 0 10 12 0 9 4
8 6 13 9 8 5 13
0 0 0 0 0 0 1 0 0 0 0 0 0 0 0 -1 0]:

```

Predicted values

Sample 3:

```

[ 1. 4. 7. 9. 8. 11. 11. 11. 12. 8. 12. 12. 0.
8. 6. 8. 7. 0.
11. 7. 7. 10. 2. 0. 7. 2. 2. 0. 10. 4. 9.
6. 9. 8. 11. 6.
8. 7. 11. 1. 0. 6. 6. 7. 4. 2. 11. 7. 0.
0. 0. 0. 0. 0.
0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]: True

```

values

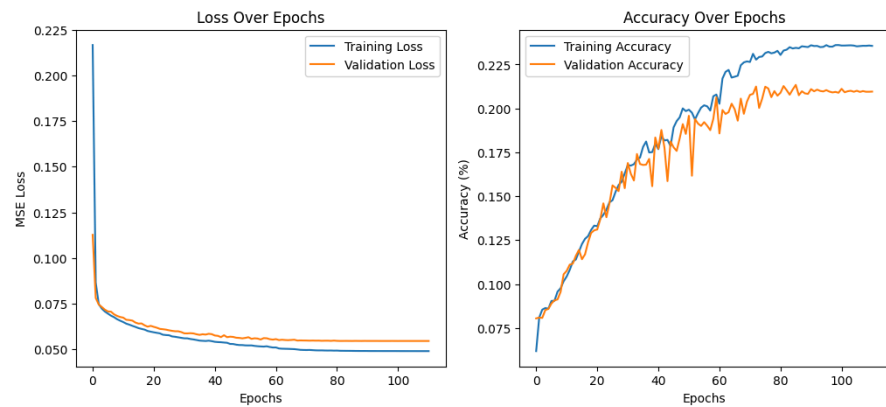
```

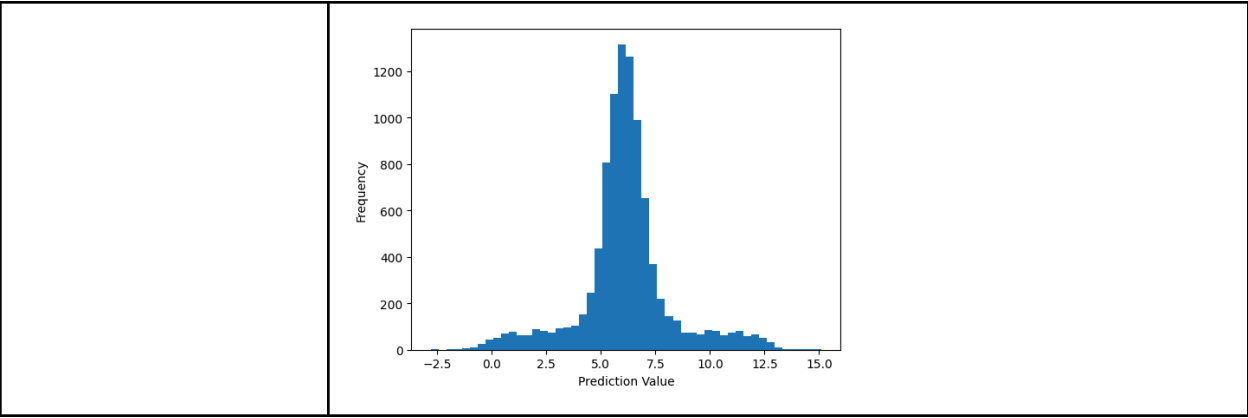
[ 6 6 6 6 7 6 6 7 6 6 7 6 6 7 6 6 5
6 7 5 5 5 7 6
5 6 5 7 6 6 8 6 6 7 9 7 8 8 12 1 0
7 7 8 4 3 12 8
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]:

```

Predicted values

Graphs (Training and
on Test set)





(96, 19, 2)	
Weights	<div>Total params: 82,432 (322.00 KB)</div> <div>Trainable params: 82,432 (322.00 KB)</div> <div>Non-trainable params: 0 (0.00 B)</div>
FLOPs	164352
Test Results	0.06363978236913681, MSE: 0.06375821679830551, Accuracy: 0.0924944281578064
Inference Time	Average batch inference time over 100 runs: 0.106459 seconds Average inference time per sample (from batch): 0.000532 seconds
R2 score	0.0626
Test set predictions	<div>Comparison of predictions and ground truth:</div> <div>Sample 1:</div> <div>Predicted: [6 6 10 9 9 8 9 6 9 8 11 8</div> <div>9 9 8 7 8 8 8 9 10 9 10 9</div> <div>9 9 8 9 9 9 10 9 10 8 8 9 7 11 9 9 10</div> <div>6 10 9 9 9 9 11</div> <div>8 8 7 9 10 10 9 11 10 10 9 8 9 10 8 10 7</div> <div>7 10 8 8 12 6 7</div> <div>10 11 7 10 8 8 8 11 10 8 9 7 16 2 16 3 3</div> <div>8 17 1 5 16 2 9</div> <div>0 1 0 0 0 0 0 -1 0 0 0 0 0 0 0 0</div> <div>0 0 0 1 1 -1 0</div> <div>0 0 0 0 0 0 0 1]</div> <div>Ground Truth: [7 3 9 9 7 13 3 2 2 3 11 17</div> <div>18 10 17 13 10 13 2 1 8 7 4 8</div> <div>4 12 10 10 11 18 12 8 3 6 4 6 7 13 9 5 4</div> <div>14 15 1 14 7 12 16</div> <div>14 13 18 12 6 7 6 18 14 6 16 17 18 2 6 9 6</div> <div>10 2 8 3 7 11 7</div>


```
14 13 4 16 10 14 12 3 12 12 10 4 13 2 17 2 5
7 16 0 6 17 3 9
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
0 0 0 0 0 0 0 0]
```

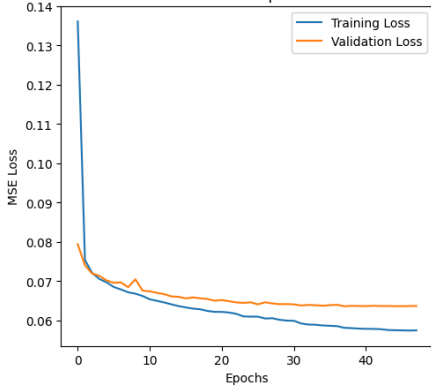
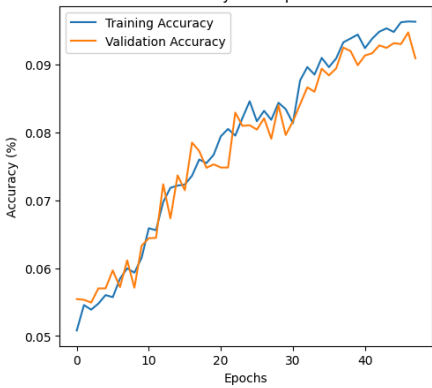
Sample 2:

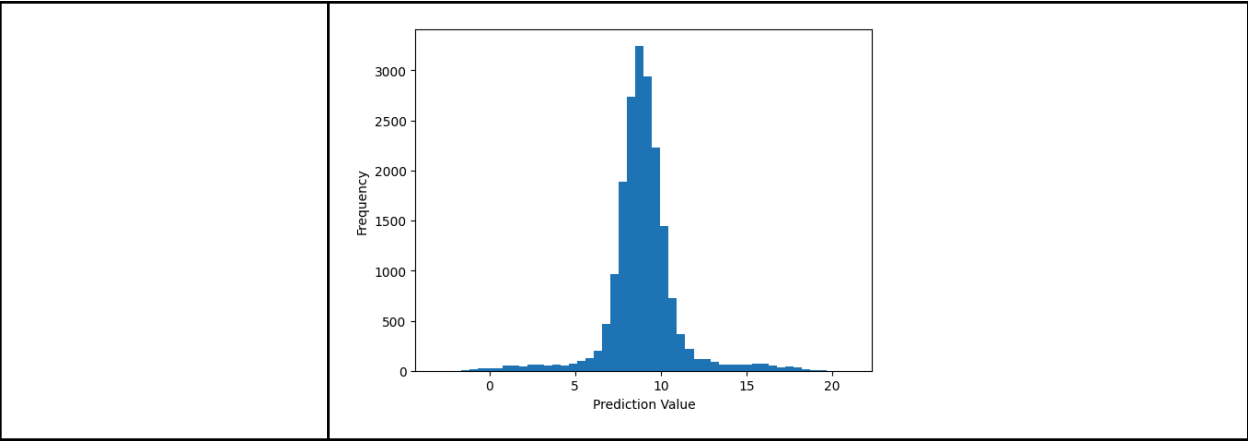
```
Predicted: [ 8 10 7 10 10 9 9 7 9 9 10 10
9 10 8 10 9 8 8 8 9 7 9 7
8 10 9 9 7 8 9 8 9 8 9 7 10 10 9 8 9
8 8 9 9 8 10 9
9 9 8 9 8 9 10 9 9 9 9 8 10 9 10 8 9
9 9 10 8 8 11 9
10 9 10 10 8 8 9 7 7 9 7 9 10 5 4 5 3
16 8 21 4 5 7 5
1 0 0 0 1 -1 0 0 0 0 0 0 0 0 0 0
1 0 0 0 0 -1 1
0 0 0 0 1 0 0 0]
Ground Truth: [ 2 8 8 4 18 15 15 17 11 15 4 2
6 13 15 0 4 7 1 6 5 9 2 5
18 1 18 16 3 2 13 2 10 9 2 8 15 17 4 14 15
17 5 3 12 0 1 14
3 12 13 14 7 8 4 2 6 7 15 16 9 0 18 17 17
4 10 0 10 10 4 17
7 14 2 15 11 1 12 18 12 17 15 9 6 1 3 3 0
15 5 18 4 5 6 4
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
0 0 0 0 0 0 0 0]
```

Sample 3:

```
Predicted: [ 9 7 8 10 6 5 9 9 10 5 7 7
7 5 8 8 4 7 10 7 10 9 10 7
8 7 5 7 6 8 9 13 9 10 8 10 9 9 10 7 6
6 7 9 10 7 8 9
12 8 9 7 9 8 10 10 7 11 10 8 8 9 8 10 8
8 7 8 8 9 9 12
8 10 10 9 9 9 9 10 8 12 11 15 4 11 2 8 16
18 8 5 13 13 2 1
-1 0 0 0 1 0 0 0 -1 0 0 -1 1 1 0 1 2
-1 1 0 0 0 -2 0
1 0 0 0 -1 0 0 0]
Ground Truth: [10 3 13 3 3 1 6 18 0 11 18 11
8 6 0 5 9 0 17 2 10 13 5 10
6 7 4 17 14 17 2 9 14 7 7 13 9 12 9 5 17
15 17 5 8 15 5 10
2 7 0 14 14 18 9 18 8 6 13 1 12 3 6 7 15
8 10 13 3 18 14 13
15 2 5 3 0 17 7 15 15 14 1 11 3 10 1 5 16
18 8 4 13 15 0 2
0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0
0 0 0 0 0 0 0 0]
```

Unseen set predictions	MSE on unseen data: 0.060016267001628876 Accuracy on unseen data: 0.08177082985639572 Sample 1: [6. 14. 10. 7. 6. 18. 10. 10. 3. 7. 2. 1. 11. 5. 1. 0. 11. 11. 16. 9. 15. 14. 14. 18. 11. 2. 4. 18. 6. 8. 6. 17. 3. 13. 17. 8. 1. 14. 6. 11. 7. 14. 2. 13. 16. 3. 17. 7. 3. 1. 5. 9. 3. 17. 11. 1. 9. 3. 13. 15. 14. 7. 13. 7. 15. 12. 17. 14. 12. 8. 14. 12. 0. 6. 8. 0. 11. 7. 10. 18. 16. 7. 2. 2. 0. 4. 9. 6. 8. 6. 8. 7. 11. 1. 0. 15. 0.]: True values [8 8 8 7 8 9 7 11 7 9 9 7 8 9 7 7 8 9 8 8 9 9 9 9 10 8 9 9 7 7 10 7 9 8 9 10 7 11 7 8 8 8 10 9 9 8 10 10 10 8 8 9 9 9 8 8 9 8 9 9 8 9 7 8 9 8 9 9 8 8 8 10 9 10 9 9 10 7 9 9 9 7 5 7 7 5 10 8 7 6 8 7 10 1 1 14 -1 0 0 0 0 0 1 0 0 0 0 0 0 -1 0 0 0 0 0 0 1 0 0 0 0 0 0 -1 0 0 1 0]: Predicted values -----
	Sample 2: [4. 2. 11. 7. 2. 0. 2. 4. 14. 13. 2. 0. 4. 13. 6. 8. 14. 14. 9. 12. 18. 6. 16. 3. 4. 6. 12. 14. 10. 3. 12. 6. 18. 1. 9. 12. 5. 11. 11. 10. 6. 0. 0. 12. 8. 2. 6. 5. 7. 8. 4. 0. 18. 9. 11. 14. 8. 16. 16. 11. 6. 1. 2. 16. 4. 16. 16. 16. 1. 1. 4. 0. 0. 18. 1. 11. 5. 3. 10. 16. 5. 4. 1. 5. 10. 15. 15. 0. 8. 5. 15. 2. 3. 18. 2. 18. 0.]: True values [7 7 9 7 8 8 8 8 9 8 9 8 9 10 7 7 9 9 9 9 9 9 9 9 7 8 9 10 9 7 9 9 9 8 7 10 8 10 9 8 10 7 9 8 8 8 8 8 10 9 8 8 10 9 9 8 10 11 10 8 7 8 7 8 8 8 9 9 7 8 7 8 9 8 8 9 7 8 10 10 9 7 10 6 9 12 14 2 7 5 12 1 4 15 2 15 0 0 0 1 -1 1 0 -1 -1 0 0 0 0 -1 0 0 0

	<pre>-1 0 -1 0 0 1 0 -1 0 0 0 0 0 0 0 0]: Predicted values ----- Sample 3: [6. 8. 0. 7. 6. 17. 7. 0. 10. 17. 9. 2. 6. 15. 15. 16. 1. 0. 15. 11. 4. 4. 8. 8. 2. 18. 15. 15. 2. 0. 10. 16. 7. 3. 5. 7. 2. 15. 2. 17. 13. 17. 1. 2. 15. 8. 3. 0. 3. 0. 13. 15. 7. 6. 2. 16. 0. 15. 11. 18. 13. 5. 5. 12. 18. 7. 1. 0. 14. 0. 4. 15. 18. 3. 2. 16. 16. 11. 13. 5. 2. 8. 4. 16. 13. 2. 0. 0. 2. 17. 9. 2. 7. 13. 17. 14. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]: True values [8 9 9 9 10 8 9 8 10 9 9 9 8 9 8 8 7 6 8 9 7 8 8 7 7 9 9 8 7 7 9 8 9 7 9 9 8 8 9 8 9 9 8 8 9 8 9 8 7 7 8 7 9 7 9 9 9 8 8 9 8 9 9 8 8 8 7 8 7 10 9 9 10 9 9 10 9 8 9 9 7 9 9 10 10 3 2 2 3 15 10 2 6 13 15 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 -1 0 0 0 0 0 0 0 1 0 0 0 0 0 0 0 0]: Predicted values -----</pre>																																										
Graphs (Training and on Test set)	<div><div><p>Loss Over Epochs</p><table><caption>Approximate data for Loss Over Epochs</caption><tr><th>Epochs</th><th>Training Loss</th><th>Validation Loss</th></tr><tr><td>0</td><td>0.135</td><td>0.080</td></tr><tr><td>10</td><td>0.068</td><td>0.070</td></tr><tr><td>20</td><td>0.062</td><td>0.068</td></tr><tr><td>30</td><td>0.059</td><td>0.065</td></tr><tr><td>40</td><td>0.058</td><td>0.065</td></tr><tr><td>45</td><td>0.058</td><td>0.065</td></tr></table></div><div><p>Accuracy Over Epochs</p><table><caption>Approximate data for Accuracy Over Epochs</caption><tr><th>Epochs</th><th>Training Accuracy (%)</th><th>Validation Accuracy (%)</th></tr><tr><td>0</td><td>0.052</td><td>0.055</td></tr><tr><td>10</td><td>0.065</td><td>0.068</td></tr><tr><td>20</td><td>0.078</td><td>0.078</td></tr><tr><td>30</td><td>0.088</td><td>0.088</td></tr><tr><td>40</td><td>0.092</td><td>0.090</td></tr><tr><td>45</td><td>0.095</td><td>0.092</td></tr></table></div></div>	Epochs	Training Loss	Validation Loss	0	0.135	0.080	10	0.068	0.070	20	0.062	0.068	30	0.059	0.065	40	0.058	0.065	45	0.058	0.065	Epochs	Training Accuracy (%)	Validation Accuracy (%)	0	0.052	0.055	10	0.065	0.068	20	0.078	0.078	30	0.088	0.088	40	0.092	0.090	45	0.095	0.092
Epochs	Training Loss	Validation Loss																																									
0	0.135	0.080																																									
10	0.068	0.070																																									
20	0.062	0.068																																									
30	0.059	0.065																																									
40	0.058	0.065																																									
45	0.058	0.065																																									
Epochs	Training Accuracy (%)	Validation Accuracy (%)																																									
0	0.052	0.055																																									
10	0.065	0.068																																									
20	0.078	0.078																																									
30	0.088	0.088																																									
40	0.092	0.090																																									
45	0.095	0.092																																									



(210, 211, 2)	
Weights	<div>Total params: 328,704 (1.25 MB)</div> <div>Trainable params: 328,704 (1.25 MB)</div> <div>Non-trainable params: 0 (0.00 B)</div>
FLOPs	656384
Test Results	Loss: 0.06956274062395096, MSE: 0.06914959847927094, Accuracy: 0.004761904943734407
Inference Time	Average batch inference time over 100 runs: 0.096963 seconds Average inference time per sample (from batch): 0.000485 seconds
R2 score	-0.0052
Test set predictions	Comparison of predictions and ground truth: Sample 1: Predicted: [105 105 103 102 103 103 106 108 101 106 107 109 105 108 107 106 108 104 102 108 107 103 103 100 101 101 106 106 107 106 103 105 105 105 103 106 105 104 110 105 102 102 103 105 103 105 108 106 107 108 104 109 103 105 106 104 108 106 105 106 106 106 111 101 102 108 107 102 106 99 109 101 103 110 110 109 106 107 109 102 106 110 108 109 104 103 105 103 102 106 105 103 104 104 101 104 105 106 108 111 104 107 107 102 105 107 105 105 103 106 106 104 106 106 103 104 104 110 106 101 104 104 107 106 99 106 110 107 110 103 101 102 104 103 106 106 104 107 108 104 106 105 103 102

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108 106 109 103 104 105 104 104 105 105 105 104 104
106 103 105 106 101
105 106 105 107 103 109 102 105 105 102 103 109 108
104 107 106 105 100
107 104 106 104 107 102 104 103 103 108 111 106 105
100 104 102 106 104
108 104 104 103 100 108 106 103 103 109 108 108 0
0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
0 0 0 0]
Ground Truth: [179 157 130 128 9 48 64 160 122
92 162 164 178 53 62 45 173 120
177 6 83 127 188 11 73 37 94 166 148 150 171
171 20 104 91 188
207 118 210 151 106 158 4 208 192 164 93 31 193
33 28 117 132 157
106 172 145 77 164 10 3 112 45 123 130 52 151
97 135 207 133 84
85 200 17 203 133 90 107 166 110 0 14 141 76
84 173 110 116 40
113 5 19 67 39 146 103 126 73 124 68 1 94
43 52 5 42 146
145 29 198 144 116 180 195 191 130 152 157 163 77
168 150 177 113 15
91 203 199 157 59 104 188 5 38 4 2 73 29
79 10 130 14 171
53 128 12 62 111 55 38 166 101 66 157 107 168
89 138 197 75 207
117 85 21 165 11 163 49 16 159 172 164 194 24
82 100 113 101 104
48 42 18 79 25 96 14 52 19 132 63 175 167
23 69 139 127 3
111 170 204 179 148 196 140 1 107 133 92 150 0
0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0
0 0 0 0]

```

Sample 2:

```

Predicted: [105 105 103 102 103 103 106 108 101
106 107 109 105 108 107 106 108 104
102 108 107 103 103 100 101 101 106 106 107 106 103
105 105 105 103 106
105 104 110 105 102 102 103 105 103 105 108 106 107
108 104 109 103 105
106 104 108 106 105 106 106 106 111 101 102 108 107
102 106 99 109 101
103 110 110 109 106 107 109 102 106 110 108 109 104
103 105 103 102 106
105 103 104 104 101 104 105 106 108 111 104 107 107

```

```

102 105 107 105 105
 103 106 106 104 106 106 103 104 104 110 106 101 104
104 107 106  99 106
 110 107 110 103 101 102 104 103 106 106 104 107 108
104 106 105 103 102
 108 106 109 103 104 105 104 104 105 105 105 104 104
106 103 105 106 101
 105 106 105 107 103 109 102 105 105 102 103 109 108
104 107 106 105 100
 107 104 106 104 107 102 104 103 103 108 111 106 105
100 104 102 106 104
 108 104 104 103 100 108 106 103 103 109 108 108  0
0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0
0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0
0  0  0  0  0
  0  0  0  0]
Ground Truth: [131 145 129 185 160  64  93 106 123
62 102  89  30 207 195  12 154  56
 141  51 190  79 200 127 136 166  90  6  56  54 134
210 207 116 143  46
  97 190 102  95 206  32 148 166 123 156  15 172 100
70  31 170 157 137
  14 140 116  57  85 102  22  52  33 197  44 159 180
101 203 158 171  78
  75  98 192 152  9  32 121  56 169  51 126  62 107
142 135 165  27  71
  87  1 130  24 161 163 208 179  18  92 189 179 210
29 138  8 116 100
  97 147  3  68 180 204  67 137 107  65 125 182 137
46  65 207 198 200
 110 151 200 173 135  11 129 136  70 156  95  83 150
78  32 143 136 107
 201 163 182 159 174 113 141 162 119  13  0  50  75
47 185 168 200 140
 184 153 142 119  79 137 144 103 127 108  9 174 110
9 188  34 104 135
 137 198  97 192  68 208  47  19  67  45  97  35  0
49  59 103  28  19
  28  15  79 167  87 144  72 147 173  23 169 208  0
0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0
0  0  0  0  0
  0  0  0  0  0  0  0  0  0  0  0  0  0  0
0  0  0  0  0
  0  0  0  0]
-----

```

Sample 3:

```

Predicted:  [105 105 103 102 103 103 106 108 101
106 107 109 105 108 107 106 108 104
 102 108 107 103 103 100 101 101 106 106 107 106 103
105 105 105 103 106
 105 104 110 105 102 102 103 105 103 105 108 106 107
108 104 109 103 105

```

	<pre>106 104 108 106 105 106 106 106 111 101 102 108 107 102 106 99 109 101 103 110 110 109 106 107 109 102 106 110 108 109 104 103 105 103 102 106 105 103 104 104 101 104 105 106 108 111 104 107 107 102 105 107 105 105 103 106 106 104 106 106 103 104 104 110 106 101 104 104 107 106 99 106 110 107 110 103 101 102 104 103 106 106 104 107 108 104 106 105 103 102 108 106 109 103 104 105 104 104 105 105 105 104 104 106 103 105 106 101 105 106 105 107 103 109 102 105 105 102 103 109 108 104 107 106 105 100 107 104 106 104 107 102 104 103 103 108 111 106 105 100 104 102 106 104 108 104 104 103 100 108 106 103 103 109 108 108 0] Ground Truth: [5 109 6 101 163 69 97 128 21 208 41 83 31 31 5 133 199 107 138 156 160 128 90 199 76 164 164 105 114 92 153 168 89 103 95 169 59 87 130 12 138 56 196 192 118 31 12 16 65 148 69 181 93 142 142 108 110 8 75 70 87 20 136 65 70 1 55 11 116 55 206 98 178 197 186 70 10 130 161 84 146 134 106 138 62 194 183 102 170 183 44 127 187 160 27 102 115 56 51 3 144 34 41 187 153 175 63 144 97 199 200 134 64 127 51 168 115 143 193 199 85 121 183 26 17 62 79 114 153 149 185 0 173 85 26 101 171 160 82 32 124 181 152 5 175 92 59 189 14 203 186 37 142 158 113 192 147 156 74 200 143 207 160 182 18 88 49 33 191 102 151 112 31 120 130 140 86 11 61 172 23 23 208 14 177 87 95 194 115 172 192 19 20 139 99 107 84 82 146 100 1 32 164 9 31 93 124 208 157 13 0] -----</pre>
Unseen set predictions	/usr/local/lib/python3.11/dist-packages/numpy/_core/

```

_methods.py:188: RuntimeWarning: overflow
encountered in multiply
  x = um.multiply(x, x, out=x)
1/1 ----- 0s 174ms/step
MSE on unseen data: 0.06809185445308685
Accuracy on unseen data: 0.002142857061699033
Sample 1:
[102. 179.  92.  14. 106.  71. 188.  20. 102. 121.
 210.  74. 202.  87.
 116.  99. 103. 151. 130. 149.  52.   1.  87. 157.
 37. 129. 191. 187.
  20. 160. 203.  57.  21.  88.  48.  58. 169. 187.
 207.  14. 189. 189.
 174. 189.  50. 107.  54.  63. 130.  50. 134.  20.
 72. 166.  17. 131.
  88.  59.  13.   8.  89.  52. 129.  83.  91. 110.
 187. 198. 171.   7.
 174.  34. 205.  80. 163.  49. 103. 131.   1. 133.
 53. 105.   3.  53.
 190. 145.  43. 161. 201. 189.  13.  94.  47.  14.
 199. 205. 189.  39.
 207.  81. 110.  52.  23. 153. 187. 123.  40. 156.
 14.  44.  64.  88.
  70.   8.  87. 128. 135.  62. 138.  80. 135. 162.
 162.  32. 122.   4.
  40.  27. 134. 200.  71.  11. 161.  32.  47. 150.
 61.  36.  98. 171.
 103.  34. 192. 100. 174. 205. 130.   0.   4. 141.
 102.  26. 136. 206.
  14.  89.  41. 123. 204. 178.  62.  95.  51.  95.
 131. 150. 142. 170.
  28.  35.  12. 159.  70. 186.  85.  27.  65. 169.
 44.  61. 184. 133.
  27.  27. 107.  43.  83.  29. 189.  74. 127.  91.
 189. 128. 120.  26.
 189. 120. 115. 204.   2. 102. 197. 199. 154. 136.
 61. 164.  50. 171.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  0.   0.   0.   0.
   0.   0.   0.   0.   0.   0.   0.   0.   0.   0.
  0.   0.   0.   0.
   0.   0.   0.   0.]: True values
[105 105 103 102 103 103 106 108 101 106 107 109 105
 108 107 106 108 104
 102 108 107 103 103 100 101 101 106 106 107 106 103
 105 105 105 103 106
 105 104 110 105 102 102 103 105 103 105 108 106 107
 108 104 109 103 105
 106 104 108 106 105 106 106 106 111 101 102 108 107
 102 106  99 109 101
 103 110 110 109 106 107 109 102 106 110 108 109 104
 103 105 103 102 106
 105 103 104 104 101 104 105 106 108 111 104 107 107

```


	102 105 107 105 105 103 106 106 104 106 106 103 104 104 110 106 101 104 104 107 106 99 106 110 107 110 103 101 102 104 103 106 106 104 107 108 104 106 105 103 102 108 106 109 103 104 105 104 104 105 105 105 104 104 106 103 105 106 101 105 106 105 107 103 109 102 105 105 102 103 109 108 104 107 106 105 100 107 104 106 104 107 102 104 103 103 108 111 106 105 100 104 102 106 104 108 104 104 103 100 108 106 103 103 109 108 108 0]: Predicted values ----- Sample 2: [151. 206. 58. 117. 159. 95. 179. 112. 61. 185. 51. 11. 38. 129. 130. 112. 100. 112. 183. 80. 186. 112. 1. 129. 53. 86. 128. 146. 125. 129. 52. 171. 159. 197. 159. 67. 182. 202. 183. 122. 144. 37. 23. 68. 115. 97. 197. 138. 143. 96. 200. 123. 186. 69. 207. 92. 2. 147. 186. 163. 146. 89. 194. 146. 147. 95. 198. 51. 160. 167. 127. 38. 81. 103. 128. 10. 184. 177. 150. 158. 41. 98. 6. 143. 89. 111. 59. 112. 1. 128. 47. 139. 196. 36. 159. 8. 98. 146. 47. 207. 130. 147. 151. 53. 119. 160. 151. 115. 74. 112. 199. 163. 165. 103. 83. 111. 98. 152. 92. 145. 127. 109. 81. 193. 53. 162. 207. 188. 168. 160. 67. 32. 141. 20. 47. 147. 127. 135. 134. 194. 144. 127. 32. 175. 203. 186. 114. 118. 21. 157. 37. 108. 50. 181. 7. 26. 26. 20. 29. 96. 27. 110. 191. 196. 60. 47. 146. 3. 34. 191. 48. 16. 171. 157. 45. 116. 5. 98. 123. 36. 23. 92. 45. 180. 94. 98. 187. 115. 190. 159. 160. 66. 127. 17. 24. 53. 57. 66. 103. 173. 23. 113. 31. 174. 85. 150. 193. 126. 154. 129. 0.
--	---

	<pre>0. 0. 0. 0. 0. 0. 0. 0.]: True values [105 105 103 102 103 103 106 108 101 106 107 109 105 108 107 106 108 104 102 108 107 103 103 100 101 101 106 106 107 106 103 105 105 105 103 106 105 104 110 105 102 102 103 105 103 105 108 106 107 108 104 109 103 105 106 104 108 106 105 106 106 106 111 101 102 108 107 102 106 99 109 101 103 110 110 109 106 107 109 102 106 110 108 109 104 103 105 103 102 106 105 103 104 104 101 104 105 106 108 111 104 107 107 102 105 107 105 105 103 106 106 104 106 106 103 104 104 110 106 101 104 104 107 106 99 106 110 107 110 103 101 102 104 103 106 106 104 107 108 104 106 105 103 102 108 106 109 103 104 105 104 104 105 105 105 104 104 106 103 105 106 101 105 106 105 107 103 109 102 105 105 102 103 109 108 104 107 106 105 100 107 104 106 104 107 102 104 103 103 108 111 106 105 100 104 102 106 104 108 104 104 103 100 108 106 103 103 109 108 108 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]: Predicted values ----- Sample 3: [16. 103. 160. 136. 42. 175. 38. 169. 25. 98. 49. 152. 151. 12. 59. 134. 56. 35. 172. 19. 64. 7. 143. 141. 203. 114. 142. 91. 97. 65. 31. 190. 85. 50. 152. 185. 62. 189. 124. 149. 57. 57. 85. 48. 179. 169. 69. 14. 53. 187. 100. 7. 52. 59. 107. 4. 102. 195. 5. 108. 115. 93. 46. 98. 54. 167. 51. 143. 12. 113. 123. 105. 157. 146. 144. 119. 62. 18. 91. 57. 182. 89. 116. 61. 22. 126. 136. 139. 128. 57. 121. 0. 33. 95. 125. 117. 47. 88. 116. 128. 15. 188. 191. 190. 68. 21. 92. 194. 75. 153. 143. 178. 85. 184. 28. 205. 68. 46. 93. 189. 196. 203. 143. 175. 84. 38. 99. 32. 100. 22. 9. 68. 99. 33. 179. 137. 146. 185. 95. 0. 68. 3. 15. 23. 79. 1. 127. 159. 83. 151. 139. 177. 162. 123.</pre>
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	32. 160. 188. 178. 170. 100. 11. 66. 64. 160. 167. 73. 42. 43. 28. 140. 11. 94. 45. 129. 34. 80. 89. 7. 92. 153. 201. 89. 161. 114. 104. 134. 195. 57. 113. 74. 156. 119. 163. 20. 163. 137. 100. 200. 151. 191. 176. 98. 35. 209. 95. 151. 150. 189. 36. 11. 0.]: True values [105 105 103 102 103 103 106 108 101 106 107 109 105 108 107 106 108 104 102 108 107 103 103 100 101 101 106 106 107 106 103 105 105 105 103 106 105 104 110 105 102 102 103 105 103 105 108 106 107 108 104 109 103 105 106 104 108 106 105 106 106 106 111 101 102 108 107 102 106 99 109 101 103 110 110 109 106 107 109 102 106 110 108 109 104 103 105 103 102 106 105 103 104 104 101 104 105 106 108 111 104 107 107 102 105 107 105 105 103 106 106 104 106 106 103 104 104 110 106 101 104 104 107 106 99 106 110 107 110 103 101 102 104 103 106 106 104 107 108 104 106 105 103 102 108 106 109 103 104 105 104 104 105 105 105 104 104 106 103 105 106 101 105 106 105 107 103 109 102 105 105 102 103 109 108 104 107 106 105 100 107 104 106 104 107 102 104 103 103 108 111 106 105 100 104 102 106 104 108 104 104 103 100 108 106 103 103 109 108 108 0]: Predicted values -----
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Graphs (Training and on Test set)

