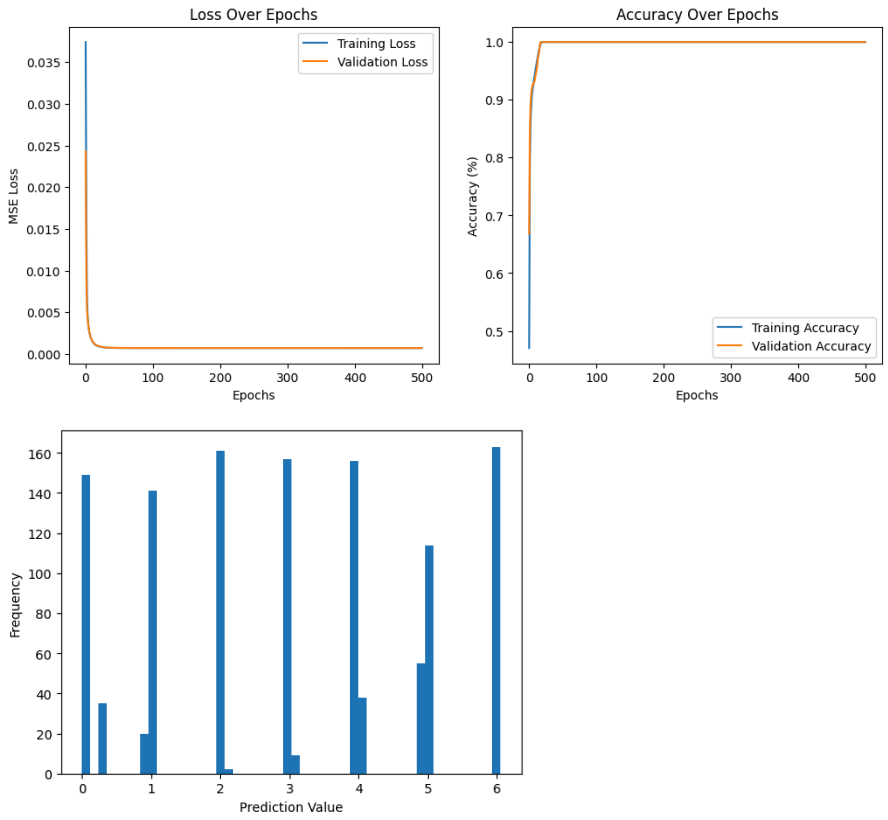
DCT

(6, 7, 2)	
Weights	**Total params:** 97 (388.00 B) **Trainable params:** 81 (324.00 B) **Non-trainable params:** 16 (64.00 B)
FLOPs	171
Test Results	Loss: 0.000728922663256526, MSE: 5.6582804973004386e-05, Accuracy: 1.0
Inference Time	Average batch inference time over 100 runs: 0.061496 seconds Average inference time per sample (from batch): 0.000307 seconds
R2 score	0.7495

Test set predictions	Comparison of predictions and ground truth:
	Sample 1:
	  Predicted: [4 1 4 0 0 0 0 0]
	  Ground Truth: [4 1 4 0 0 0 0 0]
	---------- 	
	Sample 2:
	  Predicted: [4 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]
	---------- 	

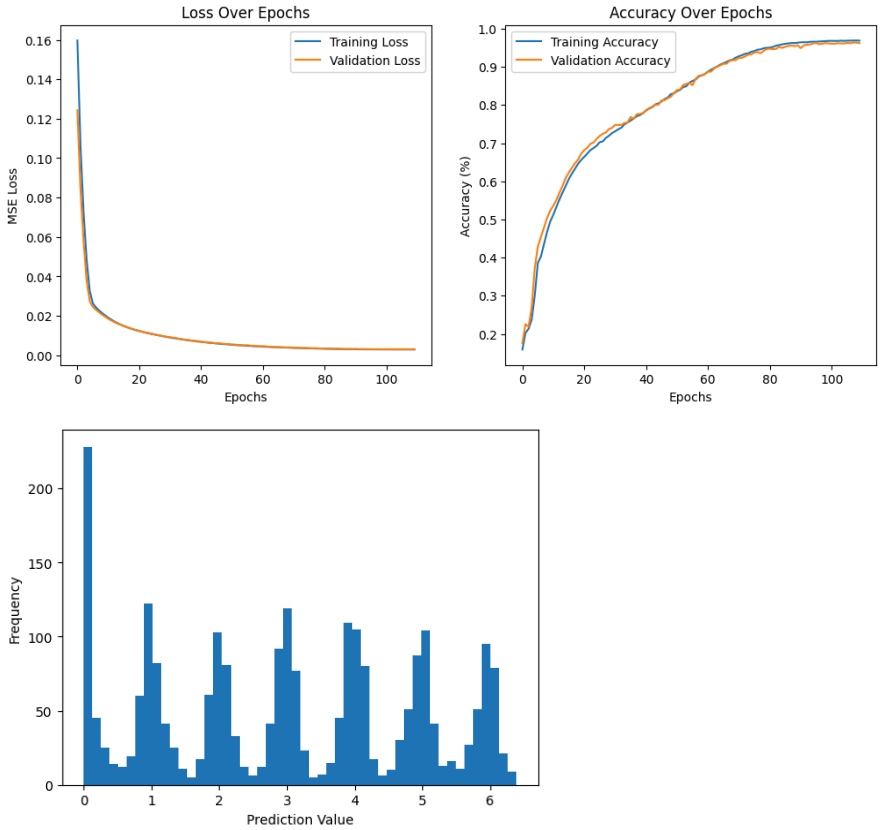
Unseen set predictions	MSE on unseen data (no noise): 0.003032620996236801 Accuracy on unseen data (no noise): 0.75 Sample 1: Original : [6 3 4 6 2 4 0 0] NN Pred : [6 3 4 5 2 4 0 0] Sample 2: Original : [4 6 1 2 6 2 0 0] NN Pred : [4 5 1 2 5 2 0 0] Sample 3: Original : [2 4 3 2 5 4 0 0] NN Pred : [2 4 3 2 4 4 0 0]

Graphs (Training and on Test set)	

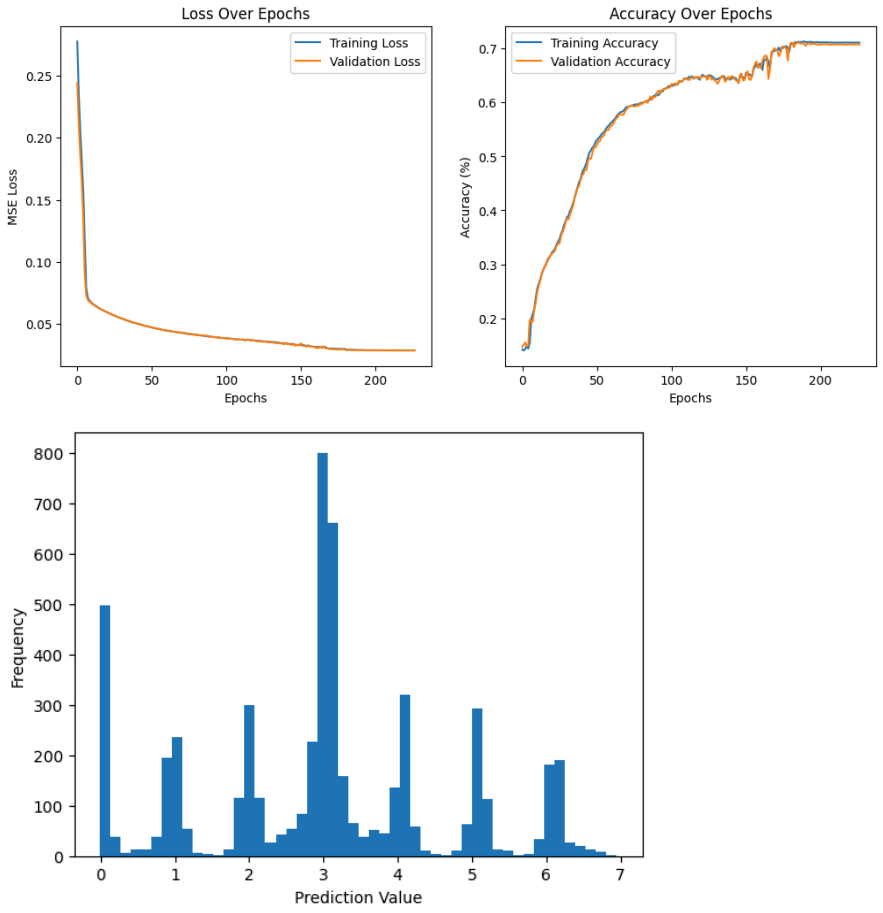
(12, 7, 2)	
Weights	**Total params:** 217 (868.00 B) **Trainable params:** 185 (740.00 B) **Non-trainable params:** 32 (128.00 B)
FLOPs	407
Test Results	Loss: 0.0030215075239539146, MSE: 0.0008902489207684994, Accuracy: 0.9616815447807312
Inference Time	Average batch inference time over 100 runs: 0.075405 seconds Average inference time per sample (from batch): 0.000377 seconds
R2 score	0.7417

Test set predictions	Comparison of predictions and ground truth:
	Sample 1:
	  Predicted: [4 0 1 2 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]
	---------- 	

	Sample 2:
	  Predicted: [1 6 3 0 1 1 2 3 4 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]
	---------- 	
	Sample 3:
	  Predicted: [5 4 3 5 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]
	---------- 	

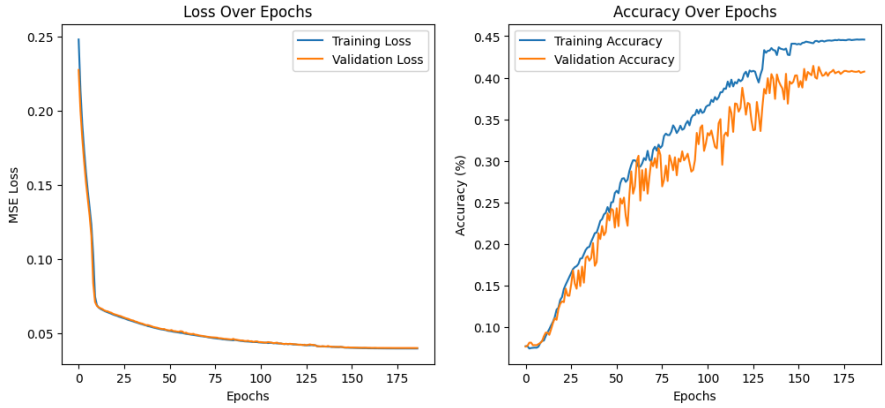
Unseen set predictions	MSE on unseen data (no noise): 0.0011746002128347754 Accuracy on unseen data (no noise): 0.9541666507720947 Sample 1: Original : [6 3 4 6 2 4 4 6 1 2 6 2 0 0 0 0] NN Pred : [5 3 4 6 2 4 4 6 1 2 6 2 0 0 0 0] Sample 2: Original : [2 4 3 2 5 4 1 3 5 5 1 3 0 0 0 0] NN Pred : [2 4 3 2 5 4 1 3 5 5 1 3 0 0 0 0] Sample 3: Original : [4 0 3 1 5 4 3 0 0 2 2 6 0 0 0 0] NN Pred : [4 0 3 1 5 4 3 0 0 2 2 6 0 0 0 0]
Graphs (Training and on Test set)	

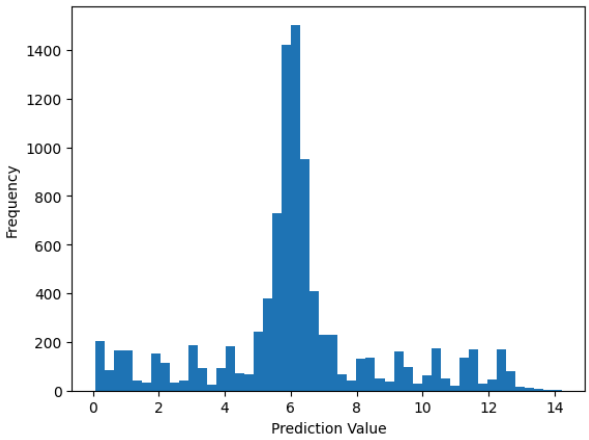
(27, 7, 2)	
Weights	**Total params:** 481 (1.88 KB) **Trainable params:** 417 (1.63 KB) **Non-trainable params:** 64 (256.00 B)
FLOPs	943
Test Results	Loss: 0.02844047360122204, MSE: 0.027049710974097252, Accuracy: 0.7075065970420837
Inference Time	Average batch inference time over 100 runs: 0.078583 seconds Average inference time per sample (from batch): 0.000393 seconds
R2 score	0.6008
Test set predictions	Comparison of predictions and ground truth: Sample 1: Predicted: [3 3 3 3 3 3 3 3 4 2 3 1 4 0 3 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: [3 3 3 3 3 3 3 3 3 2 4 3 3 1 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 6 4 1 0 5 2 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 (no noise): 0.027900228276848793 Accuracy on unseen data (no noise): 0.7222222089767456 Sample 1: Original : [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] NN Pred : [3 3 3 3 3 3 3 4 2 2 6 2 2 4 3 2 5 4 1 3 5 5 1 3 4 0 3 0 0 0 0 0] Sample 2: Original : [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] NN Pred : [3 3 3 3 3 3 3 3 4 1 3 3 6 5 5 6 5 2 3 6 3 0 2 4 2 6 4 0 0 0 0 0] Sample 3: Original : [0 6 1 3 0 3 5 1 1 0 1 4 1 3 3 6 3 6 3 4 6 2 5 0 3 1 3 0 0 0 0 0] NN Pred : [3 3 3 3 3 3 3 3 2 0 1 4 1 3 3 6 3 6 3 4 6 2 5 0 3 1 3 0 0 0 0 0]
Graphs (Training and on Test set)	

(48, 13, 2)	
Weights	**Total params:** 1,057 (4.13 KB) **Trainable params:** 929 (3.63 KB) **Non-trainable params:** 128 (512.00 B)
FLOPs	2143
Test Results	Loss: 0.04027821496129036, MSE: 0.0391046479344368, Accuracy: 0.408110111951828

Inference Time	Average batch inference time over 100 runs: 0.082175 seconds Average inference time per sample (from batch): 0.000411 seconds
R2 score	0.3523
Test set predictions	Comparison of predictions and ground truth: Sample 1: Predicted: [6 6 6 6 6 6 6 6 6 6 7 6 6 6 6 6 7 6 6 6 6 5 6 6 7 8 11 7 3 4 2 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] 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] ---------- Sample 2: Predicted: [6 6 6 6 6 6 6 6 6 6 5 6 6 5 6 7 5 6 6 6 5 6 6 6 5 5 8 4 14 12 11 1 0 9 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] 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] ---------- Sample 3: Predicted: [6 6 7 6 7 6 7 6 6 6 7 6 6 6 6 6 6 6 6 6 5 6 6 7 5 3 3 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] 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] ----------
Unseen set predictions	MSE on unseen data (no noise): 0.0425381138920784 Accuracy on unseen data (no noise): 0.22083333134651184 Sample 1: Original : [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]

	NN Pred : [6 6 6 6 7 6 6 7 7 6 6 6 7 7 6 6 8 5 6 6 5 6 6 6 6 5 9 4 1 0 10 5 0 12 9 0 12 11 10 12 12 2 12 7 3 9 2 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0] Sample 2: Original : [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] NN Pred : [6 6 6 6 7 6 6 6 6 6 7 6 6 5 6 6 6 6 6 6 6 6 6 5 5 5 7 3 1 6 5 10 3 6 1 1 10 12 1 10 3 8 6 12 9 8 4 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0] Sample 3: Original : [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] NN Pred : [6 6 6 6 6 6 6 6 7 6 6 6 6 6 6 7 5 6 6 6 6 6 6 6 6 5 4 1 12 4 10 7 10 9 12 6 9 8 12 1 0 7 7 8 4 2 12 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0]
Graphs (Training and on Test set)	

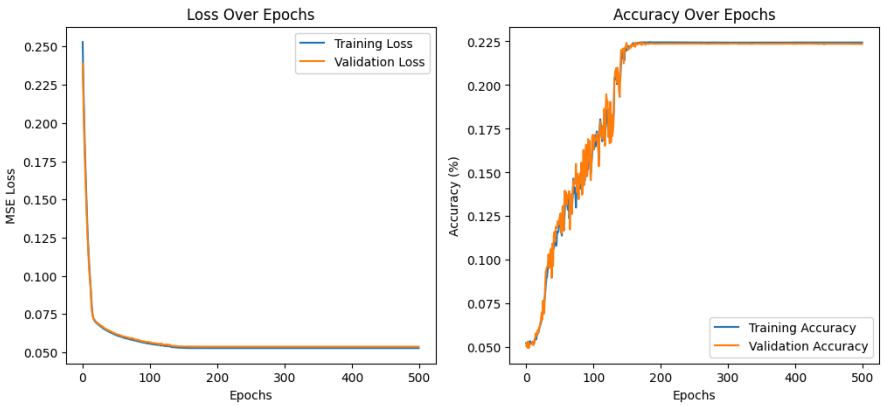
(96, 19, 2)	
Weights	**Total params:** 2,305 (9.00 KB) **Trainable params:** 2,049 (8.00 KB) **Non-trainable params:** 256 (1.00 KB)
FLOPs	4799
Test Results	Loss: 0.053756676614284515, MSE: 0.05331556871533394, Accuracy: 0.2234933078289032
Inference Time	Average batch inference time over 100 runs: 0.099113 seconds Average inference time per sample (from batch): 0.000496 seconds
R2 score	0.1731
Test set predictions	Comparison of predictions and ground truth: Sample 1: Predicted: [9 9 9 9 9 9 9 8 9 9 9 8 9 9 8 8 8 9 9 9 9 9 9 8 9 9 9 9 8 10 9 8 9 9 9 8 10 9 9 9 9 9 10 9 9 9 9 10 9 9 9 10 9 10 10 9 10 9 9 9 9 9 9 9 8 9 9 9 11 9 8 9 12 5 16 9 14 12 3 12 12 10 4 13 2 17 2 5 7 16 1 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 0 0 0 0] Ground Truth: [7 3 9 9 7 13 3 2 2 3 11 17 18 10 17 13 10 13 2 1 8 7 4 8 4 12 10 10 11 18 12 8 3 6 4 6 7 13 9 5 4

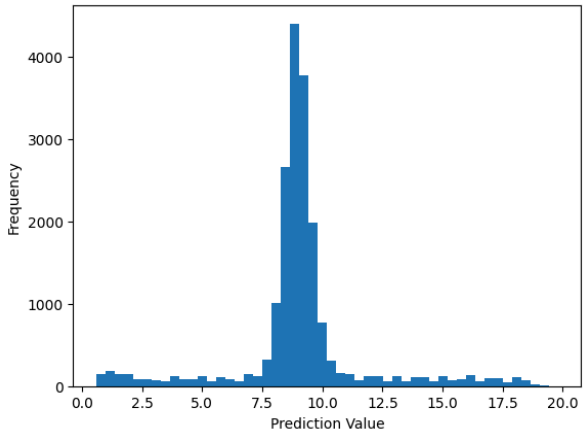
```
14 15  1 14  7 12 16
 14 13 18 12  6  7  6 18 14  6 16 17 18  2  6  9  6
10  2  8  3  7 11  7
 14 13  4 16 10 14 12  3 12 12 10  4 13  2 17  2  5
7 16  0  6 17  3  9
  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0  0
0  0  0  0  0  0  0
  0  0  0  0  0  0  0  0]
---------------------------------------
Sample 2:
  Predicted:    [ 9 10  8  9  9  8  9  9  9  9  9  9
9  9  9  9  8  8  9  9 10  8  9  8
  9  9  9  9  8  9  9 10  9  9  9  9 10 10  9  9  9
9  9  9  9  9  9  9
 10  9  9 10  9 10 10 10  9  9 10  9 10  9 10 10  9
9  8  9  9  9  9 10
 10 12  6 16 11  2 13 19 12 17 16  9  7  1  3  3  1
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  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  0]
---------------------------------------
Sample 3:
  Predicted:    [ 9  8  9  9  9  8  9  9  8  8  9  9
8  9  8  8  7 10 10  8  9 10  9  9
  8  9  8  9  8  9  9 10 10  9  8  9  9 10  8  9  9
8  9 10  9  8  8  9
 10  9  9 10 10  9 10  9  9 10 10 10  9 10  9 10  9
8  8  9  9 10 11  9
 10  5  6  2  2 17  7 15 15 14  2 11  3 10  1  5 16
18  8  4 13 15  1  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  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 0] ----------
Unseen set predictions	MSE on unseen data (no noise): 0.054805051535367966 Accuracy on unseen data (no noise): 0.09166666865348816 Sample 1: Original : [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 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] NN Pred : [9 10 9 9 9 9 9 9 8 10 9 9 9 9 8 8 8 9 10 9 9 8 9 9 10 10 9 9 9 8 9 9 10 10 9 11 9 11 9 10 9 10 10 10 10 9 9 10 10 9 9 10 10 10 10 10 9 9 10 10 9 9 9 10 9 8 9 10 9 9 9 10 9 7 9 2 10 6 9 17 14 7 2 2 1 4 8 6 8 5 8 6 10 1 1 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] Sample 2: Original : [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 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] NN Pred : [9 9 9 9 9 9 9 8 9 9 9 9 9 10 8 8 9 9 9 8 9 9 9 9 9 9 9 9 9 8 10 9 9 10 9 11 8 11 9 9 10 9 10 10 10 9 9 10 10 9 9 9 11 9 9 10 9 10 9 9 9 9 8 9 9 8 9 9 8 10 9 8 8 14 4 10 4 2 9 14 4 4 1 4 9 13 13 1 7 4 14 2 3 17 1 16 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:
Original : [ 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]
NN Pred  : [ 9  9  9  9  9  9  9  8 10  8  9  9  9
9  9 10  8  8  9  9  9  9  9  9
  8  9 10  8  9  9 10  8 10  9 10  9  9 10 10  9  9
9  9 10 10  9  9  9
  9  9  9 10 10  9  9  9  9  9  9  8  9  9  9  9  9
10  9  8  8 10 10 10
  9  8  5 15 15 10 12  4  2  7  4 14 11  2  1  1  2
16  8  2  6 12 15 13
  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]
```

Graphs (Training and on Test set)





(210, 211, 2)	
Weights	**Total params:** 4,993 (19.50 KB) **Trainable params:** 4,481 (17.50 KB) **Non-trainable params:** 512 (2.00 KB)
FLOPs	10623
Test Results	Loss: 0.06458307057619095, MSE: 0.06358818709850311, Accuracy: 0.011437075212597847
Inference Time	Average batch inference time over 100 runs: 0.134492 seconds Average inference time per sample (from batch): 0.000672 seconds
R2 score	0.0632
Test set predictions	Comparison of predictions and ground truth: Sample 1: Predicted: [103 107 106 107 102 99 109 110 102 110 109 118 104 106 109 106 104 99 100 114 112 103 106 104 97 101 109 101 109 107 101 101 113 102 104 106 104 106 114 109 105 97 105 108 105 102 104 96 113 111 99 111 101 107 107 104 108 107 104 97 113 108 114 105 100 107 104 98 107 110 113 104 97 107 109 115 110 110 119 106 105 108 108 104 104 106 105 101 103 109 104 98 113 106 102 102 104 110 116 108 102 109 102 99 111 108 98 99 108 115 108 99 106 108 104 107 109 113 105 101 110 100 104 108 100 105 111 109 110 106 103 104 104 102 108 110 101 108 107 107 104 114 105 103 106 106 107 102 103 103 108 107 102 106 108 103 108 104 102 103 108 102 101 109 103 110 110 112 104 99 111 109 108 106 101 104 108 110 96 104 99 99 110 100 119 97 107 96 83 113 100 129 122 51 62 136 127 29 111 160 208 181 146 194 138 25 105 130 87 148 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   0]
----------------------------------------
Sample 2:
  Predicted:    [105 109 107 108  96 103 106 114  96
110 104 117 101 113 107 103 105 106
 109 107 118 103  98 100  98  98  96 106 109 110 111
102  90 111 112 108
 111 109 119 107  96 104 107 113 113 107 108 114 110
107 108 122 111 112
 108 107 113 106 111 103 109 106 108 115 106 109 110
106 110  99 114 103
 103 111 104 110  98 114 116  93 105 113  96 108 104
101  99 107  97 103
 106 109 106  89  98  99 109  99 107 117 108 113  99
102 103 105 106 116
 108 113 113 110  94 108 103  98  97 113 109  95 114
90 107  95  97 103
 101 109 112 111 105 106 106 109 107 108 100 112 103
106 107 107 104 107
 110 107 107  99 103 108 105 105 107 105 108 101 102
110 106 110 107 108
 108 100 111 113 111 116 109 100 104 102 115 103 100
110 111 111 114  97
 107 107 115  97 111 106 109 103 100 109 122  95  98
52  43  90  35  30
  33  30  74 160  81 135  64 140 169  26 166 207   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]
----------------------------------------
Sample 3:
  Predicted:    [106  99 102 100 112 114 103 104  98
102 107 103 105 101 109 107 117 107
 100 106  99 109 102 101 113 102 108 114  95  97 104
119 103 106  99 102
 101 100 110 107 104 103  96 102 108 111 121 103 107
110 112 106 107 111
 110 101 108 107 102 113 103 114 110  95 109 112 105
98  97  98 108 107
 114 111 115  99 111 106  95 113 102 107 108 109 103
102 108 101 110 108
 112 100 104 119  93 109 108 110  98 105 104 101 109
101 100 108 107 111
 100 108 102 117 102 106 109 104 110 110  99 109  97
109 110 111  99 106
 109 106 109  98 104 102 106  99 104 105 109 104 110
103 104 104 101  91
 109  98 110 103 105 103  97 114 111 103 104 112 104
108 108 104 107  97
 113 110 103 103 102 110  98 113 110  99  95 113 122
101 108 101 105 101
 109 111  92 105  96 104 113 108 105 126 129  80  92
132  86 102  78  82
```

	144 104 25 32 160 28 31 90 120 210 156 18 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 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 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] ----------
Unseen set predictions	MSE on unseen data (no noise): 0.06172572448849678 Accuracy on unseen data (no noise): 0.012857142835855484 Sample 1: Original : [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]
NN Pred  : [102 104 109 108 103 102 112 111 110 108
106 116 108 114 105 105 113  98
  93 109 109 101 104 107 103  99 112 104 107 106 104
109 112  95 101 108
 101 106 111 100  98  97 101 109  97 102 107  94 112
103  95 112  95 102
 108 101 106 109 102  97 110  97 113 100 102 107 114
97 112 104 113 104
 105 110 116 115 111 107 117 107 115 114 108 108 107
105 109 109 109 108
 105 101 113  98 106 106 107 125 114 107 111 107 110
105 105 112 108 103
 109 103 111  97 104 108 110 110 104 118 111 103 104
109 102 108  96 104
 111 107 110 105 104 104 106 104 107 110 105 108 102
105 106 104 102 100
 108 110 104  99 104 102 106 104 107 104 108 103 108
105 105 104 106  96
  96 108 100 112 107  99  99  98 108 109 108 111 106
104 102 106  95 100
 101  95 110  93 105  91 111  97 110  86 105  93 118
118 121  32 193 123
 115 207  26 103 197 199 153 139  55 164  43 171   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]

Sample 2:
Original : [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
```

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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
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]
NN Pred  : [106 106 106 107 101 109 106 112 101 107
110 118 103 113 109 103 121 106
 105 105 109 104 103 105 105  99 105 108 106 110 102
109  98 110 111 110
 113 104 118 106  98 102 104 107 112 109 113 107 109
107 109 110 106 108
 111 105 107 107 107 102 107 110 108 107 104 112 114
103 108 101 108 102
 108 112 104 114 102 107 108 100 106 111 106 108 101
104 101 105 103 107
 106 106 101  95  97  98 108 104 105 115 105 111 102
99  96 109 107 112
 105 108 109 111  91 107 107 102 102 114 105 103 106
97 108 101  98 103
 105 108 111 106 105 106 105 103 106 106 104 109 109
107 106 104 103  99
 115 105 108 100 104 106 103 109 112 105 108 102 105
111 106 109 107 104
 109 103 110 107 110 112 103 104 105 102 111 110 109
110 109 106 108  96
 110 102 109 100 106  97 117  97 112 125 125  88 112
50  40  39  41  57
  95 172  28 110  26 173  82 147 191 120 152 127   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:
Original : [ 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 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
	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]
	NN Pred : [104 102 99 97 106 109 105 113 103 104
	113 117 109 107 109 107 113 100
	  98 103 95 105 110 110 105 98 114 103 109 109 91
	105 118 109 110 102
	 110 97 112 107 109 98 105 105 101 109 109 91 98
	107 104 90 100 100
	 113 102 97 110 102 103 105 106 108 90 96 108 118
	104 106 103 100 98
	 106 111 110 116 109 96 102 109 106 111 124 107 97
	108 108 104 105 108
	 101 100 97 102 95 100 99 99 111 117 99 110 108
	105 97 108 107 94
	 103 98 96 98 106 111 103 105 108 112 103 109 100
	113 110 116 103 109
	 116 107 107 98 100 99 103 96 103 106 105 105 116
	106 106 101 103 97
	 109 100 115 106 103 105 102 106 108 103 104 104 112
	110 104 104 109 104
	 106 101 106 100 110 103 101 116 108 104 105 117 114
	100 105 99 98 101
	 115 98 105 109 105 97 113 89 110 87 112 104 125
	51 160 134 94 194
	 149 195 181 98 31 6 96 156 152 199 34 18 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]
Graphs (Training and on Test set)