

# MLP for predicting in time series data

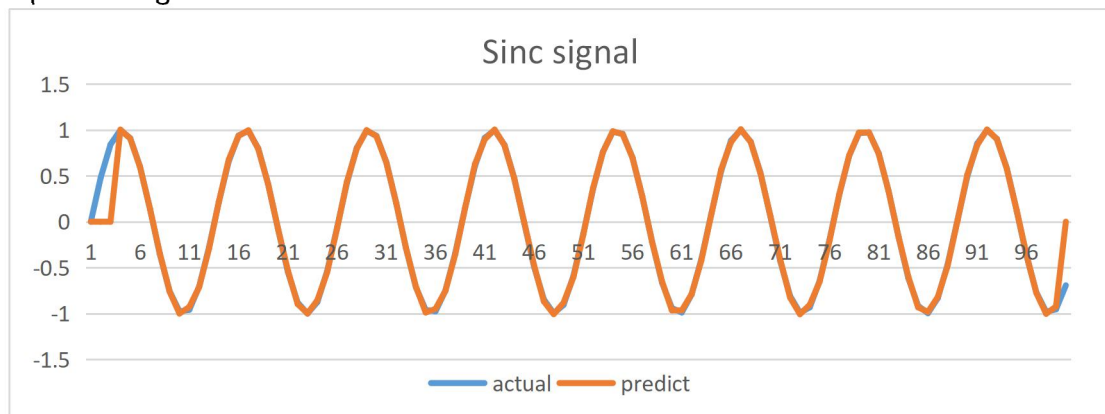
## 1. Sinc signal

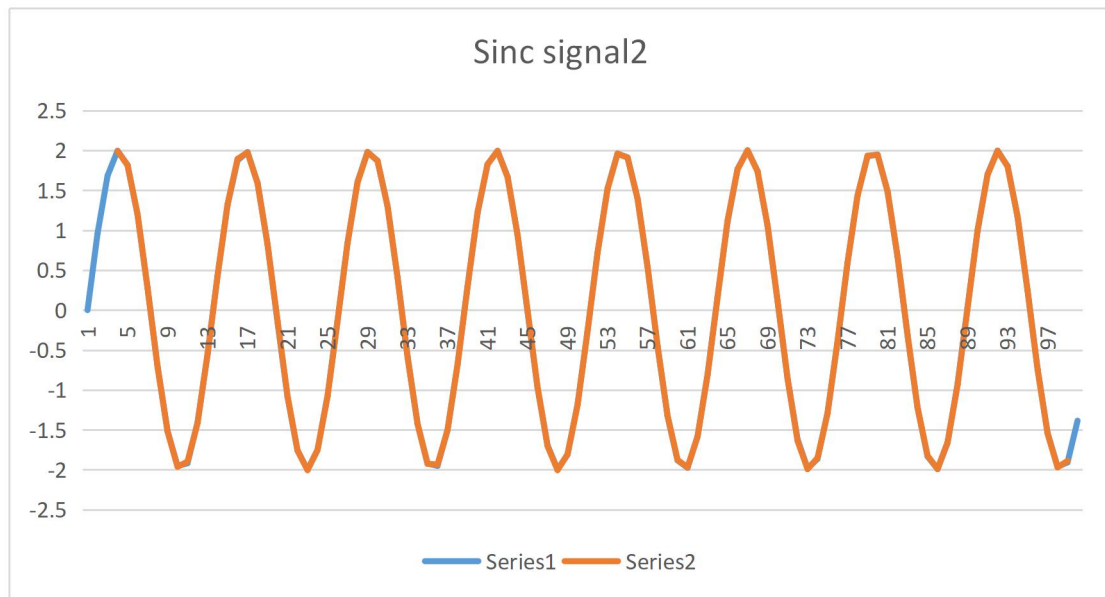
Training data



Model: MLP ( 100 Relu- 1 Linear)

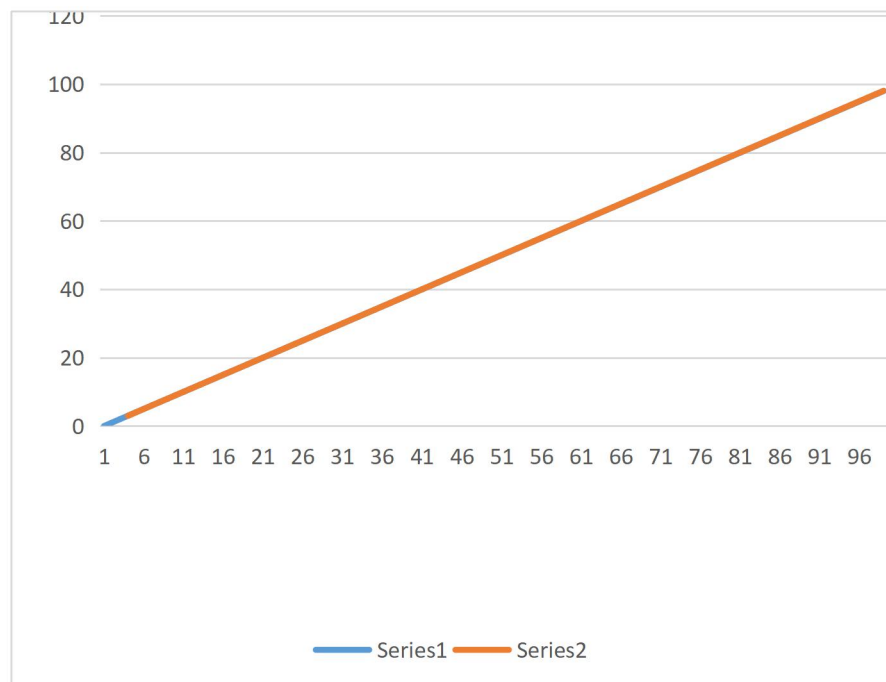
Optimize algorithm: Adam



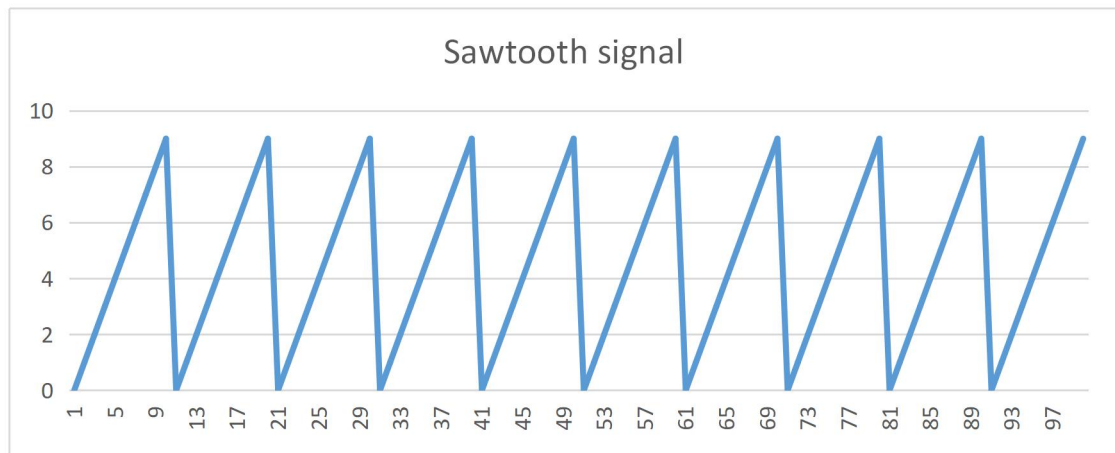


## 2. Linear Training

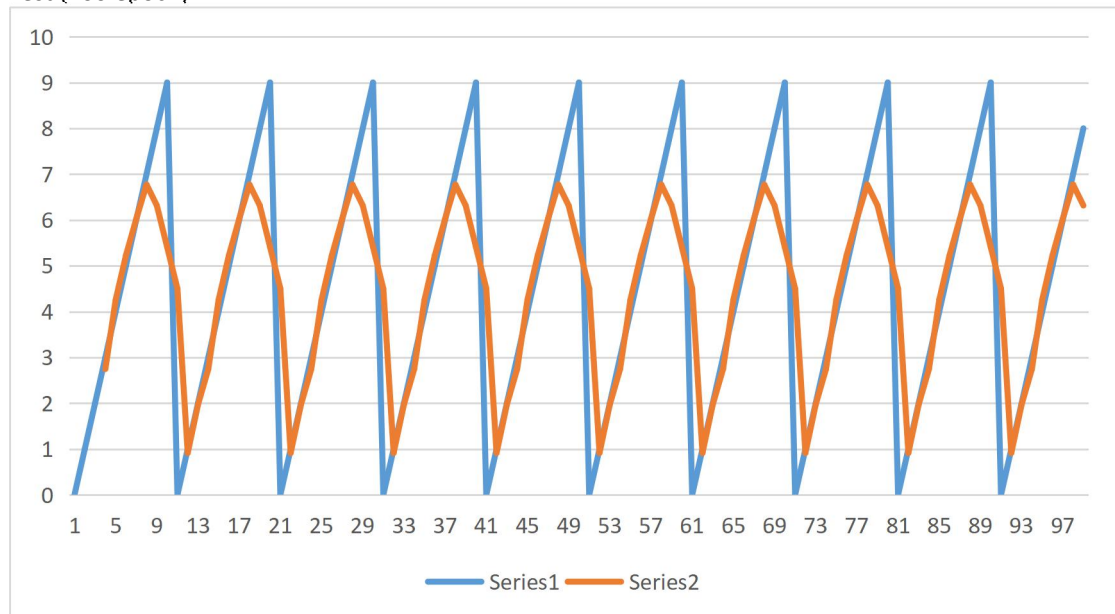
0	
1	
2	
3	2.974689
4	3.993309
5	5.004425
6	6.01211
7	7.012328
8	8.012547
9	9.012765
10	10.01298
11	11.0132
12	12.01342
13	13.01364
14	14.01385
15	15.01407
16	16.01429
17	17.01451
18	18.01473
19	19.01494
20	20.01516
21	21.01538
22	22.0156
23	23.01582
24	24.01604
25	25.01625
26	26.01648
27	27.01728
28	28.01809
29	29.01889



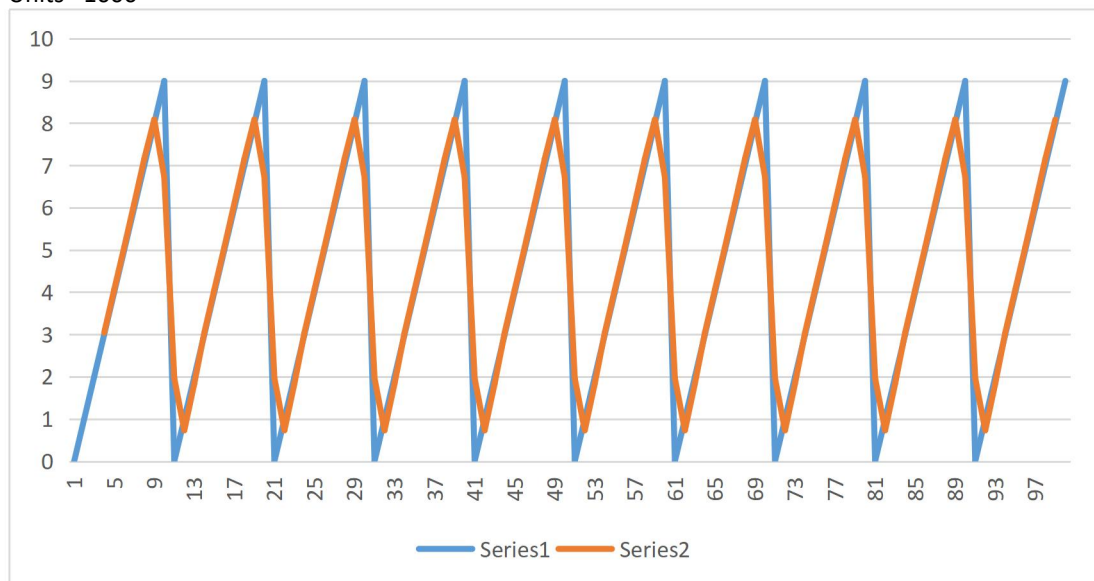
## 3. Saw-tooth signal Training



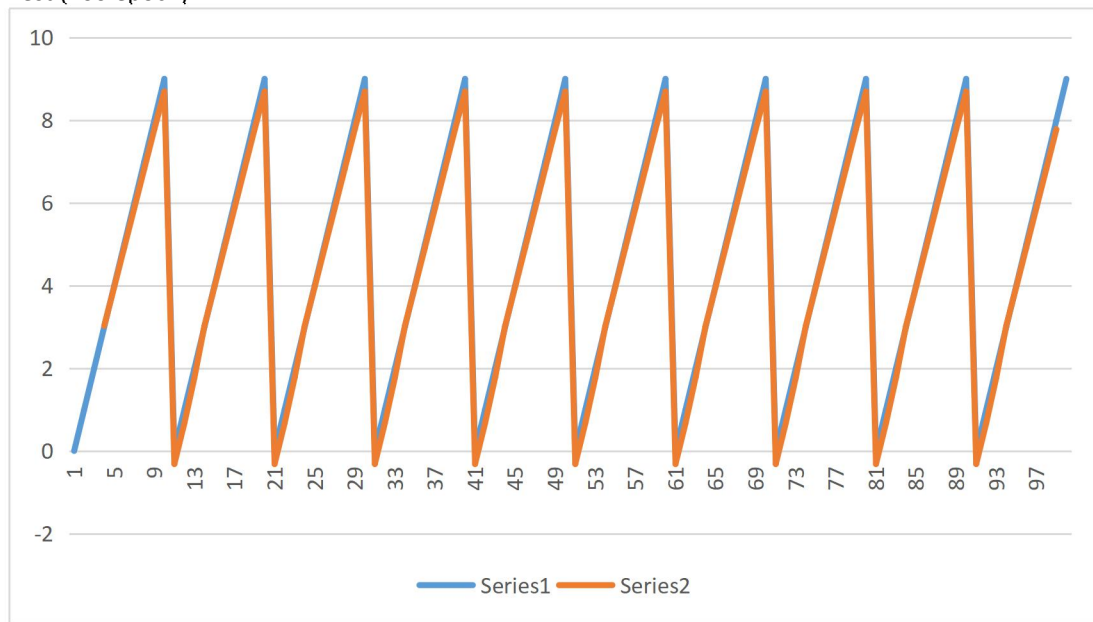
Test (100 epoch)



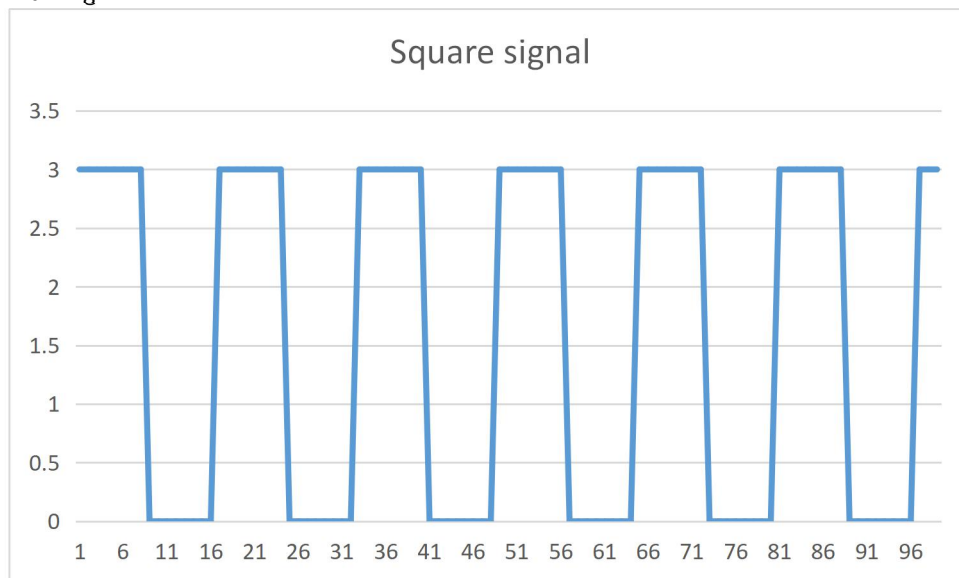
Units =1000



Test (100 epoch)



3 Square signal  
Training



Test (100 epoch)

