

Training Model for CA_1...

Epoch 1/100

50/50 [=====] - 5s 105ms/step - loss: 0.7618 - val_loss: 0.7218

Epoch 2/100

50/50 [=====] - 5s 92ms/step - loss: 0.7130 - val_loss: 0.7145

Epoch 3/100

50/50 [=====] - 5s 98ms/step - loss: 0.6985 - val_loss: 0.7148

Epoch 4/100

50/50 [=====] - 5s 95ms/step - loss: 0.6950 - val_loss: 0.7137

Epoch 5/100

50/50 [=====] - 5s 96ms/step - loss: 0.6928 - val_loss: 0.7109

Epoch 6/100

50/50 [=====] - 5s 95ms/step - loss: 0.6910 - val_loss: 0.7070

Epoch 7/100

50/50 [=====] - 5s 92ms/step - loss: 0.6854 - val_loss: 0.7008

Epoch 8/100

50/50 [=====] - 5s 93ms/step - loss: 0.6777 - val_loss: 0.6881

Epoch 9/100

50/50 [=====] - 5s 93ms/step - loss: 0.6594 - val_loss: 0.6583

Epoch 10/100

50/50 [=====] - 5s 93ms/step - loss: 0.5864 - val_loss: 0.4790

Epoch 11/100

50/50 [=====] - 5s 97ms/step - loss: 0.4455 - val_loss: 0.4066

Epoch 12/100

50/50 [=====] - 5s 96ms/step - loss: 0.4101 - val_loss: 0.3937

Epoch 13/100

50/50 [=====] - 5s 92ms/step - loss: 0.4007 - val_loss: 0.6349

Epoch 14/100

50/50 [=====] - 5s 92ms/step - loss: 0.5380 - val_loss: 0.4060

Epoch 15/100

50/50 [=====] - 5s 92ms/step - loss: 0.3883 - val_loss: 0.3810

Epoch 16/100

50/50 [=====] - 5s 94ms/step - loss: 0.3967 - val_loss: 0.3815

Epoch 17/100

50/50 [=====] - 5s 94ms/step - loss: 0.3583 - val_loss: 0.3990

Epoch 18/100

50/50 [=====] - 5s 97ms/step - loss: 0.3464 - val_loss: 0.3334

Epoch 19/100

50/50 [=====] - 5s 95ms/step - loss: 0.3616 - val_loss: 0.3373

Epoch 20/100

50/50 [=====] - 5s 95ms/step - loss: 0.3289 - val_loss: 0.3299

Epoch 21/100

50/50 [=====] - 5s 96ms/step - loss: 0.3470 - val_loss: 0.3389

Epoch 22/100

50/50 [=====] - 5s 93ms/step - loss: 0.3186 - val_loss: 0.3279

Epoch 23/100
50/50 [=====] - 5s 98ms/step - loss: 0.4241 - val_loss: 0.6134
Epoch 24/100
50/50 [=====] - 5s 95ms/step - loss: 0.4513 - val_loss: 0.3624
Epoch 25/100
50/50 [=====] - 5s 94ms/step - loss: 0.3257 - val_loss: 0.3363
Epoch 26/100
50/50 [=====] - 5s 95ms/step - loss: 0.3103 - val_loss: 0.3295
Epoch 27/100
50/50 [=====] - 5s 98ms/step - loss: 0.3052 - val_loss: 0.3198
Epoch 28/100
50/50 [=====] - 5s 97ms/step - loss: 0.3539 - val_loss: 0.3336
Epoch 29/100
50/50 [=====] - 5s 100ms/step - loss: 0.3039 - val_loss: 0.3260
Epoch 30/100
50/50 [=====] - 5s 98ms/step - loss: 0.2970 - val_loss: 0.3228
Epoch 31/100
50/50 [=====] - 5s 93ms/step - loss: 0.2945 - val_loss: 0.3292
Epoch 32/100
50/50 [=====] - 5s 97ms/step - loss: 0.3585 - val_loss: 0.3506
Epoch 33/100
50/50 [=====] - 5s 96ms/step - loss: 0.3003 - val_loss: 0.3335
Epoch 34/100
50/50 [=====] - 5s 95ms/step - loss: 0.2904 - val_loss: 0.3301
Epoch 35/100
50/50 [=====] - 5s 99ms/step - loss: 0.2865 - val_loss: 0.3271
Epoch 36/100
50/50 [=====] - 5s 94ms/step - loss: 0.2860 - val_loss: 0.3349
Epoch 37/100
50/50 [=====] - 5s 95ms/step - loss: 0.2820 - val_loss: 0.3312
Epoch 38/100
50/50 [=====] - 5s 96ms/step - loss: 0.2832 - val_loss: 0.3308
Epoch 39/100
50/50 [=====] - 5s 96ms/step - loss: 0.2805 - val_loss: 0.3346
Epoch 40/100
50/50 [=====] - 5s 98ms/step - loss: 0.3002 - val_loss: 0.3281
Epoch 41/100
50/50 [=====] - 5s 92ms/step - loss: 0.2788 - val_loss: 0.3414
Epoch 42/100
50/50 [=====] - 5s 95ms/step - loss: 0.2762 - val_loss: 0.3265
Epoch 43/100
50/50 [=====] - 5s 94ms/step - loss: 0.2761 - val_loss: 0.3219
Epoch 44/100
50/50 [=====] - 5s 93ms/step - loss: 0.2736 - val_loss: 0.3217
Epoch 45/100
50/50 [=====] - 5s 94ms/step - loss: 0.2735 - val_loss: 0.3205
Epoch 46/100
50/50 [=====] - 5s 96ms/step - loss: 0.2717 - val_loss: 0.3215

Epoch 47/100
50/50 [=====] - 5s 95ms/step - loss: 0.2706 - val_loss: 0.3130
Epoch 48/100
50/50 [=====] - 5s 94ms/step - loss: 0.2925 - val_loss: 0.3563
Epoch 49/100
50/50 [=====] - 5s 99ms/step - loss: 0.2780 - val_loss: 0.3139
Epoch 50/100
50/50 [=====] - 5s 96ms/step - loss: 0.2684 - val_loss: 0.3060
Epoch 51/100
50/50 [=====] - 5s 94ms/step - loss: 0.2668 - val_loss: 0.3093
Epoch 52/100
50/50 [=====] - 5s 98ms/step - loss: 0.2660 - val_loss: 0.3101
Epoch 53/100
50/50 [=====] - 5s 95ms/step - loss: 0.2948 - val_loss: 0.3202
Epoch 54/100
50/50 [=====] - 5s 96ms/step - loss: 0.2680 - val_loss: 0.3206
Epoch 55/100
50/50 [=====] - 5s 93ms/step - loss: 0.2637 - val_loss: 0.3057
Epoch 56/100
50/50 [=====] - 5s 92ms/step - loss: 0.2620 - val_loss: 0.3156
Epoch 57/100
50/50 [=====] - 5s 95ms/step - loss: 0.2602 - val_loss: 0.3187
Epoch 58/100
50/50 [=====] - 5s 94ms/step - loss: 0.2742 - val_loss: 0.3200
Epoch 59/100
50/50 [=====] - 5s 94ms/step - loss: 0.2608 - val_loss: 0.3210
Epoch 60/100
50/50 [=====] - 5s 98ms/step - loss: 0.2588 - val_loss: 0.3080
Epoch 61/100
50/50 [=====] - 5s 94ms/step - loss: 0.2564 - val_loss: 0.3067
Epoch 62/100
50/50 [=====] - 5s 96ms/step - loss: 0.2552 - val_loss: 0.3085
Epoch 63/100
50/50 [=====] - 5s 95ms/step - loss: 0.2547 - val_loss: 0.3234
Epoch 64/100
50/50 [=====] - 5s 93ms/step - loss: 0.2534 - val_loss: 0.3043
Epoch 65/100
50/50 [=====] - 5s 96ms/step - loss: 0.2512 - val_loss: 0.3213
Epoch 66/100
50/50 [=====] - 5s 104ms/step - loss: 0.2522 - val_loss: 0.3242
Epoch 67/100
50/50 [=====] - 5s 96ms/step - loss: 0.2500 - val_loss: 0.9860
Epoch 68/100
50/50 [=====] - 5s 95ms/step - loss: 0.3419 - val_loss: 0.3281
Epoch 69/100
50/50 [=====] - 5s 96ms/step - loss: 0.2527 - val_loss: 0.3122
Epoch 70/100
50/50 [=====] - 5s 97ms/step - loss: 0.2494 - val_loss: 0.3237

Epoch 71/100
50/50 [=====] - 5s 93ms/step - loss: 0.2469 - val_loss: 0.3171
Epoch 72/100
50/50 [=====] - 5s 95ms/step - loss: 0.2471 - val_loss: 0.3091
Epoch 73/100
50/50 [=====] - 5s 94ms/step - loss: 0.2442 - val_loss: 0.3352
Epoch 74/100
50/50 [=====] - 5s 99ms/step - loss: 0.2456 - val_loss: 0.3142
Epoch 75/100
50/50 [=====] - 5s 100ms/step - loss: 0.2435 - val_loss: 0.3190
Epoch 76/100
50/50 [=====] - 5s 98ms/step - loss: 0.2428 - val_loss: 0.3223
Epoch 77/100
50/50 [=====] - 5s 94ms/step - loss: 0.2418 - val_loss: 0.3232
Epoch 78/100
50/50 [=====] - 5s 93ms/step - loss: 0.2401 - val_loss: 0.3128
Epoch 79/100
50/50 [=====] - 5s 94ms/step - loss: 0.2399 - val_loss: 0.3162
Epoch 80/100
50/50 [=====] - 5s 93ms/step - loss: 0.2415 - val_loss: 0.3472
Epoch 81/100
50/50 [=====] - 5s 96ms/step - loss: 0.2400 - val_loss: 0.3189
Epoch 82/100
50/50 [=====] - 5s 97ms/step - loss: 0.2378 - val_loss: 0.3191
Epoch 83/100
50/50 [=====] - 5s 93ms/step - loss: 0.2372 - val_loss: 0.3141
Epoch 84/100
50/50 [=====] - 5s 92ms/step - loss: 0.2376 - val_loss: 0.3108
Epoch 85/100
50/50 [=====] - 5s 92ms/step - loss: 0.2359 - val_loss: 0.3299
Epoch 86/100
50/50 [=====] - 5s 95ms/step - loss: 0.2356 - val_loss: 0.3126
Epoch 87/100
50/50 [=====] - 5s 94ms/step - loss: 0.2348 - val_loss: 0.3190
Epoch 88/100
50/50 [=====] - 5s 98ms/step - loss: 0.2344 - val_loss: 0.3231
Epoch 89/100
50/50 [=====] - 5s 96ms/step - loss: 0.2419 - val_loss: 0.3957
Epoch 90/100
50/50 [=====] - 5s 95ms/step - loss: 0.2461 - val_loss: 0.3278
Epoch 91/100
50/50 [=====] - 5s 94ms/step - loss: 0.2325 - val_loss: 0.3513
Epoch 92/100
50/50 [=====] - 5s 96ms/step - loss: 0.2319 - val_loss: 0.3352
Epoch 93/100
50/50 [=====] - 5s 93ms/step - loss: 0.3452 - val_loss: 0.3576
Epoch 94/100
50/50 [=====] - 5s 93ms/step - loss: 0.2559 - val_loss: 0.3243

Epoch 95/100

50/50 [=====] - 5s 94ms/step - loss: 0.2332 - val_loss: 0.3341

Epoch 96/100

50/50 [=====] - 5s 97ms/step - loss: 0.2299 - val_loss: 0.3091

Epoch 97/100

50/50 [=====] - 5s 98ms/step - loss: 0.2294 - val_loss: 0.3219

Epoch 98/100

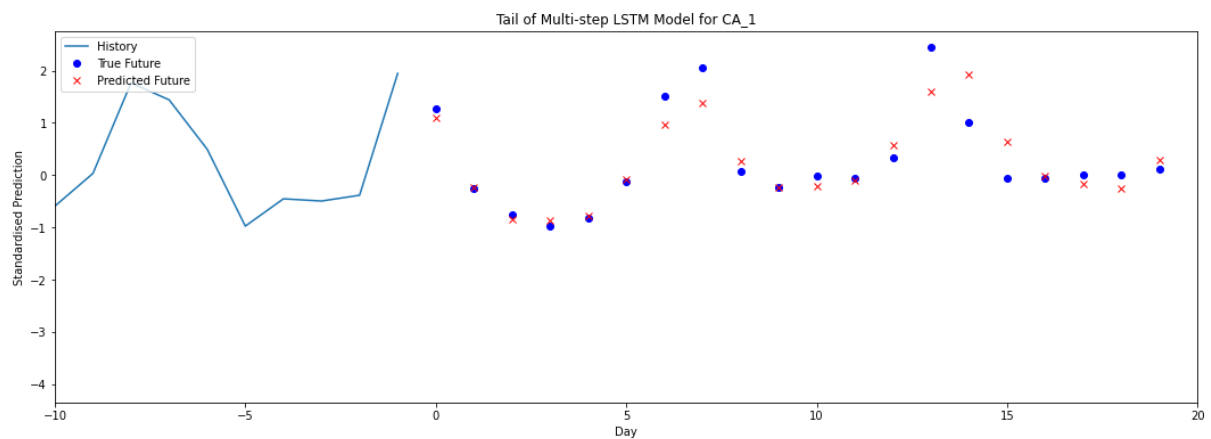
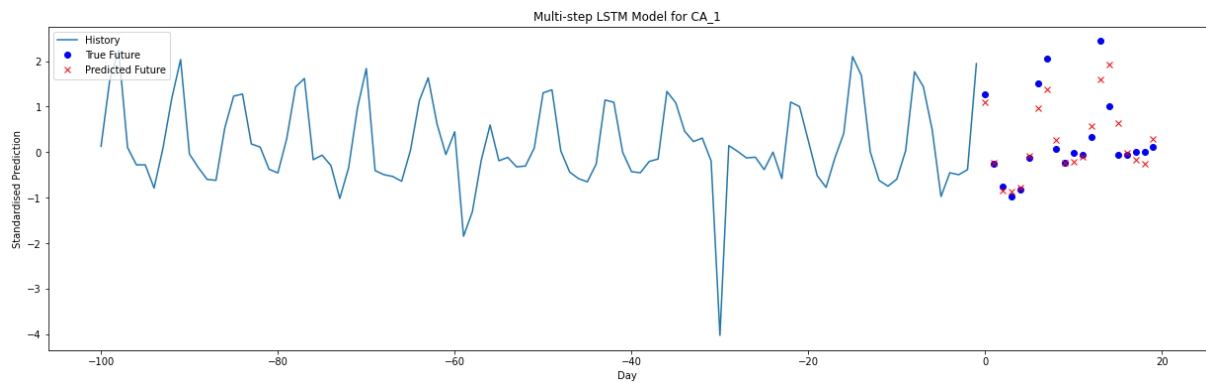
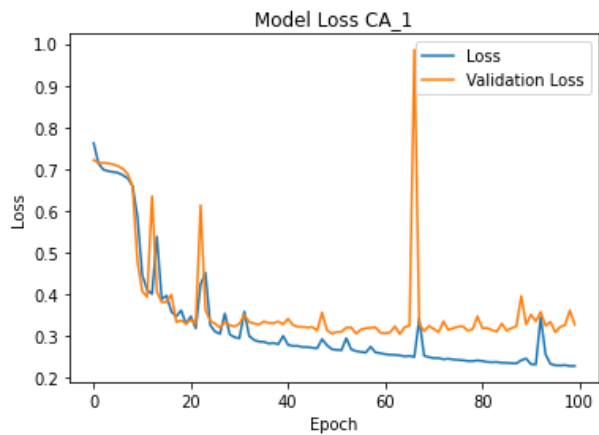
50/50 [=====] - 5s 97ms/step - loss: 0.2302 - val_loss: 0.3259

Epoch 99/100

50/50 [=====] - 7s 144ms/step - loss: 0.2281 - val_loss: 0.3615

Epoch 100/100

50/50 [=====] - 5s 109ms/step - loss: 0.2281 - val_loss: 0.3273



CA_1 - True Future: [5247. 3741. 3246. 3031. 3173. 3871. 5498. 6032. 4075. 3765. 3983. 3928.

4327. 6412. 4986. 3933. 3936. 3995. 4007. 4111.]
CA_1 - Model Prediction: [5086.8657 3760.192 3161.7935 3128.125 3213.5278 3903.0544
4957.7935
5363.491 4255.9424 3764.9375 3779.9624 3885.4863 4551.6074 5576.398
5904.7524 4622.263 3982.9824 3834.268 3742.2815 4281.281]
CA_1 - Model Percentage Error: [3.05192067e+00 5.13015090e-01 2.59416337e+00
3.20438799e+00
1.27727173e+00 8.28066220e-01 9.82551006e+00 1.10827054e+01
4.44030387e+00 1.66002656e-03 5.09760476e+00 1.08232362e+00
5.19083480e+00 1.30318473e+01 1.84266434e+01 1.75251254e+01
1.19365909e+00 4.02332750e+00 6.60640144e+00 4.14207642e+00]%
CA_1 - Model Mean Percentage Error: 5.656942412841945%
=====
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Training Model for CA_2...

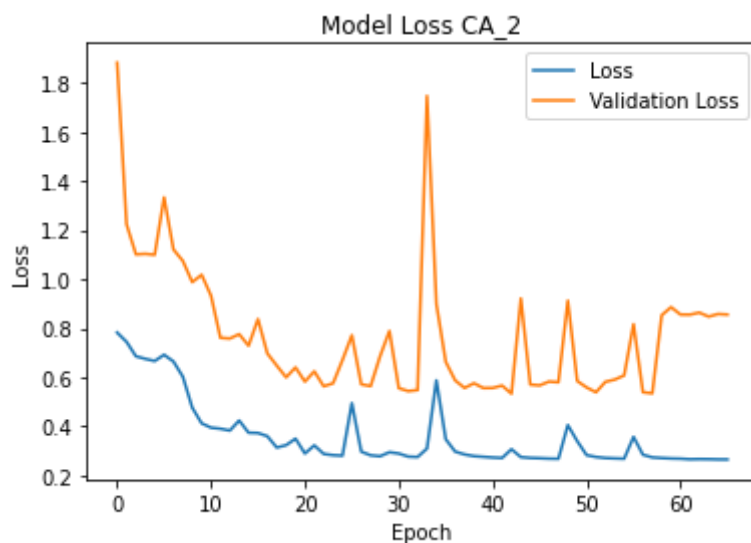
Epoch 1/100
50/50 [=====] - 5s 102ms/step - loss: 0.7824 - val_loss: 1.8814
Epoch 2/100
50/50 [=====] - 5s 96ms/step - loss: 0.7448 - val_loss: 1.2239
Epoch 3/100
50/50 [=====] - 5s 95ms/step - loss: 0.6859 - val_loss: 1.1009
Epoch 4/100
50/50 [=====] - 5s 94ms/step - loss: 0.6754 - val_loss: 1.1029
Epoch 5/100
50/50 [=====] - 5s 95ms/step - loss: 0.6667 - val_loss: 1.0992
Epoch 6/100
50/50 [=====] - 5s 93ms/step - loss: 0.6919 - val_loss: 1.3329
Epoch 7/100
50/50 [=====] - 5s 93ms/step - loss: 0.6644 - val_loss: 1.1206
Epoch 8/100
50/50 [=====] - 5s 95ms/step - loss: 0.6027 - val_loss: 1.0741
Epoch 9/100
50/50 [=====] - 5s 93ms/step - loss: 0.4765 - val_loss: 0.9878
Epoch 10/100
50/50 [=====] - 5s 99ms/step - loss: 0.4129 - val_loss: 1.0175
Epoch 11/100
50/50 [=====] - 5s 93ms/step - loss: 0.3950 - val_loss: 0.9327
Epoch 12/100
50/50 [=====] - 5s 93ms/step - loss: 0.3908 - val_loss: 0.7611
Epoch 13/100
50/50 [=====] - 5s 96ms/step - loss: 0.3832 - val_loss: 0.7581
Epoch 14/100
50/50 [=====] - 5s 98ms/step - loss: 0.4241 - val_loss: 0.7758
Epoch 15/100
50/50 [=====] - 5s 95ms/step - loss: 0.3745 - val_loss: 0.7288
Epoch 16/100

50/50 [=====] - 5s 98ms/step - loss: 0.3734 - val_loss: 0.8371
Epoch 17/100
50/50 [=====] - 5s 99ms/step - loss: 0.3603 - val_loss: 0.6974
Epoch 18/100
50/50 [=====] - 5s 94ms/step - loss: 0.3141 - val_loss: 0.6479
Epoch 19/100
50/50 [=====] - 5s 98ms/step - loss: 0.3238 - val_loss: 0.6001
Epoch 20/100
50/50 [=====] - 5s 96ms/step - loss: 0.3502 - val_loss: 0.6405
Epoch 21/100
50/50 [=====] - 5s 98ms/step - loss: 0.2899 - val_loss: 0.5826
Epoch 22/100
50/50 [=====] - 5s 98ms/step - loss: 0.3229 - val_loss: 0.6244
Epoch 23/100
50/50 [=====] - 5s 97ms/step - loss: 0.2881 - val_loss: 0.5636
Epoch 24/100
50/50 [=====] - 5s 95ms/step - loss: 0.2830 - val_loss: 0.5758
Epoch 25/100
50/50 [=====] - 5s 97ms/step - loss: 0.2811 - val_loss: 0.6705
Epoch 26/100
50/50 [=====] - 5s 98ms/step - loss: 0.4947 - val_loss: 0.7714
Epoch 27/100
50/50 [=====] - 5s 95ms/step - loss: 0.2974 - val_loss: 0.5716
Epoch 28/100
50/50 [=====] - 5s 94ms/step - loss: 0.2824 - val_loss: 0.5644
Epoch 29/100
50/50 [=====] - 5s 95ms/step - loss: 0.2786 - val_loss: 0.6856
Epoch 30/100
50/50 [=====] - 5s 98ms/step - loss: 0.2951 - val_loss: 0.7888
Epoch 31/100
50/50 [=====] - 5s 95ms/step - loss: 0.2897 - val_loss: 0.5559
Epoch 32/100
50/50 [=====] - 5s 95ms/step - loss: 0.2773 - val_loss: 0.5440
Epoch 33/100
50/50 [=====] - 5s 96ms/step - loss: 0.2756 - val_loss: 0.5482
Epoch 34/100
50/50 [=====] - 5s 96ms/step - loss: 0.3101 - val_loss: 1.7462
Epoch 35/100
50/50 [=====] - 5s 96ms/step - loss: 0.5876 - val_loss: 0.8991
Epoch 36/100
50/50 [=====] - 5s 96ms/step - loss: 0.3478 - val_loss: 0.6632
Epoch 37/100
50/50 [=====] - 5s 98ms/step - loss: 0.2976 - val_loss: 0.5877
Epoch 38/100
50/50 [=====] - 5s 97ms/step - loss: 0.2860 - val_loss: 0.5568
Epoch 39/100
50/50 [=====] - 5s 103ms/step - loss: 0.2792 - val_loss: 0.5760
Epoch 40/100

50/50 [=====] - 5s 95ms/step - loss: 0.2763 - val_loss: 0.5565
Epoch 41/100
50/50 [=====] - 5s 95ms/step - loss: 0.2735 - val_loss: 0.5568
Epoch 42/100
50/50 [=====] - 5s 95ms/step - loss: 0.2716 - val_loss: 0.5665
Epoch 43/100
50/50 [=====] - 5s 98ms/step - loss: 0.3072 - val_loss: 0.5336
Epoch 44/100
50/50 [=====] - 5s 100ms/step - loss: 0.2751 - val_loss: 0.9212
Epoch 45/100
50/50 [=====] - 5s 95ms/step - loss: 0.2719 - val_loss: 0.5705
Epoch 46/100
50/50 [=====] - 5s 97ms/step - loss: 0.2706 - val_loss: 0.5673
Epoch 47/100
50/50 [=====] - 5s 95ms/step - loss: 0.2690 - val_loss: 0.5828
Epoch 48/100
50/50 [=====] - 5s 97ms/step - loss: 0.2684 - val_loss: 0.5800
Epoch 49/100
50/50 [=====] - 5s 96ms/step - loss: 0.4055 - val_loss: 0.9124
Epoch 50/100
50/50 [=====] - 5s 96ms/step - loss: 0.3405 - val_loss: 0.5852
Epoch 51/100
50/50 [=====] - 5s 96ms/step - loss: 0.2833 - val_loss: 0.5589
Epoch 52/100
50/50 [=====] - 5s 95ms/step - loss: 0.2756 - val_loss: 0.5393
Epoch 53/100
50/50 [=====] - 5s 96ms/step - loss: 0.2715 - val_loss: 0.5817
Epoch 54/100
50/50 [=====] - 5s 96ms/step - loss: 0.2699 - val_loss: 0.5909
Epoch 55/100
50/50 [=====] - 5s 97ms/step - loss: 0.2686 - val_loss: 0.6077
Epoch 56/100
50/50 [=====] - 5s 99ms/step - loss: 0.3574 - val_loss: 0.8165
Epoch 57/100
50/50 [=====] - 5s 100ms/step - loss: 0.2848 - val_loss: 0.5395
Epoch 58/100
50/50 [=====] - 5s 98ms/step - loss: 0.2739 - val_loss: 0.5350
Epoch 59/100
50/50 [=====] - 5s 99ms/step - loss: 0.2714 - val_loss: 0.8532
Epoch 60/100
50/50 [=====] - 5s 99ms/step - loss: 0.2696 - val_loss: 0.8859
Epoch 61/100
50/50 [=====] - 5s 96ms/step - loss: 0.2687 - val_loss: 0.8558
Epoch 62/100
50/50 [=====] - 5s 97ms/step - loss: 0.2663 - val_loss: 0.8553
Epoch 63/100
50/50 [=====] - 5s 100ms/step - loss: 0.2670 - val_loss: 0.8637
Epoch 64/100

50/50 [=====] - 5s 97ms/step - loss: 0.2666 - val_loss: 0.8474
Epoch 65/100
50/50 [=====] - 5s 98ms/step - loss: 0.2657 - val_loss: 0.8579
Epoch 66/100
50/50 [=====] - 5s 101ms/step - loss: 0.2655 - val_loss: 0.8557
Epoch 67/100
50/50 [=====] - 5s 94ms/step - loss: nan - val_loss: nan
Epoch 68/100
50/50 [=====] - 5s 95ms/step - loss: nan - val_loss: nan
Epoch 69/100
50/50 [=====] - 5s 96ms/step - loss: nan - val_loss: nan
Epoch 70/100
50/50 [=====] - 5s 95ms/step - loss: nan - val_loss: nan
Epoch 71/100
50/50 [=====] - 5s 99ms/step - loss: nan - val_loss: nan
Epoch 72/100
50/50 [=====] - 5s 95ms/step - loss: nan - val_loss: nan
Epoch 73/100
50/50 [=====] - 5s 96ms/step - loss: nan - val_loss: nan
Epoch 74/100
50/50 [=====] - 5s 96ms/step - loss: nan - val_loss: nan
Epoch 75/100
50/50 [=====] - 5s 97ms/step - loss: nan - val_loss: nan
Epoch 76/100
50/50 [=====] - 5s 97ms/step - loss: nan - val_loss: nan
Epoch 77/100
50/50 [=====] - 5s 95ms/step - loss: nan - val_loss: nan
Epoch 78/100
50/50 [=====] - 5s 95ms/step - loss: nan - val_loss: nan
Epoch 79/100
50/50 [=====] - 5s 97ms/step - loss: nan - val_loss: nan
Epoch 80/100
50/50 [=====] - 5s 97ms/step - loss: nan - val_loss: nan
Epoch 81/100
50/50 [=====] - 5s 95ms/step - loss: nan - val_loss: nan
Epoch 82/100
50/50 [=====] - 5s 94ms/step - loss: nan - val_loss: nan
Epoch 83/100
50/50 [=====] - 5s 95ms/step - loss: nan - val_loss: nan
Epoch 84/100
50/50 [=====] - 5s 94ms/step - loss: nan - val_loss: nan
Epoch 85/100
50/50 [=====] - 5s 93ms/step - loss: nan - val_loss: nan
Epoch 86/100
50/50 [=====] - 5s 94ms/step - loss: nan - val_loss: nan
Epoch 87/100
50/50 [=====] - 5s 97ms/step - loss: nan - val_loss: nan
Epoch 88/100

50/50 [=====] - 5s 98ms/step - loss: nan - val_loss: nan
Epoch 89/100
50/50 [=====] - 5s 96ms/step - loss: nan - val_loss: nan
Epoch 90/100
50/50 [=====] - 5s 99ms/step - loss: nan - val_loss: nan
Epoch 91/100
50/50 [=====] - 5s 96ms/step - loss: nan - val_loss: nan
Epoch 92/100
50/50 [=====] - 5s 98ms/step - loss: nan - val_loss: nan
Epoch 93/100
50/50 [=====] - 5s 96ms/step - loss: nan - val_loss: nan
Epoch 94/100
50/50 [=====] - 5s 97ms/step - loss: nan - val_loss: nan
Epoch 95/100
50/50 [=====] - 5s 96ms/step - loss: nan - val_loss: nan
Epoch 96/100
50/50 [=====] - 5s 98ms/step - loss: nan - val_loss: nan
Epoch 97/100
50/50 [=====] - 5s 95ms/step - loss: nan - val_loss: nan
Epoch 98/100
50/50 [=====] - 5s 98ms/step - loss: nan - val_loss: nan
Epoch 99/100
50/50 [=====] - 5s 94ms/step - loss: nan - val_loss: nan
Epoch 100/100
50/50 [=====] - 5s 98ms/step - loss: nan - val_loss: nan

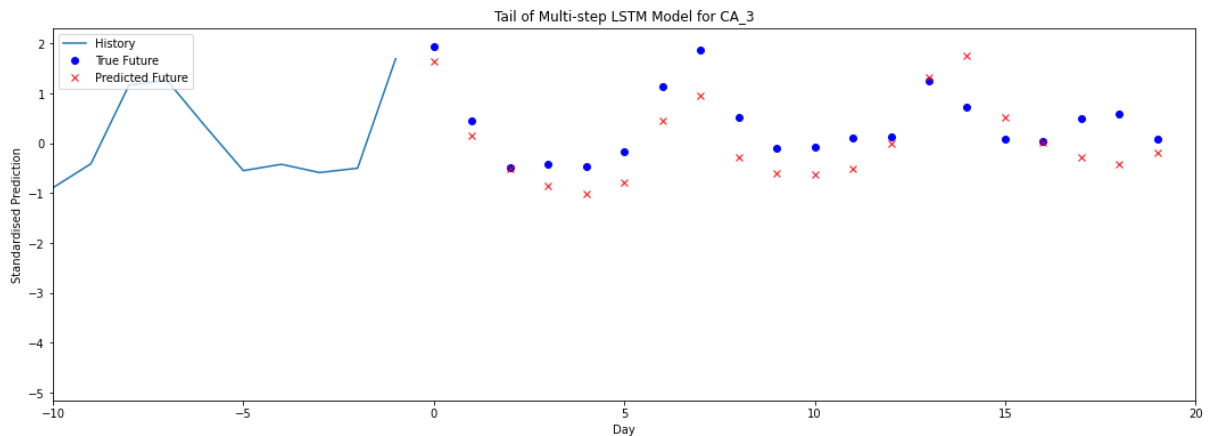
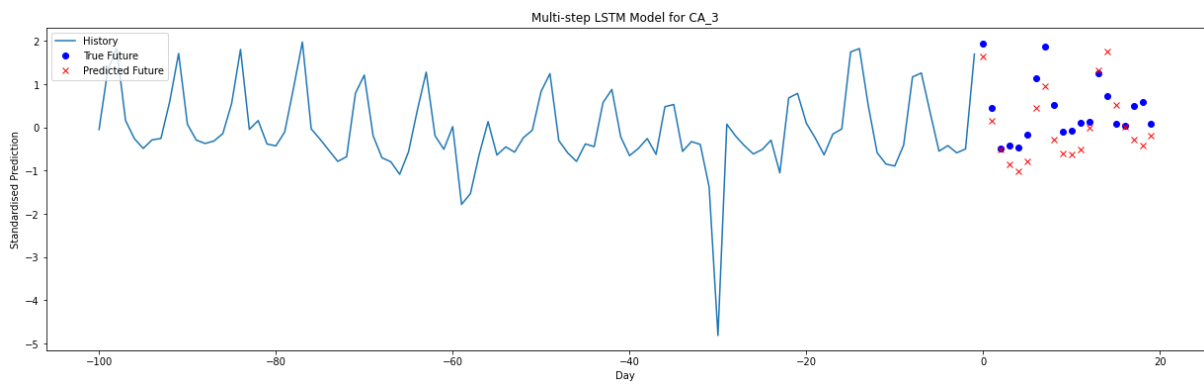
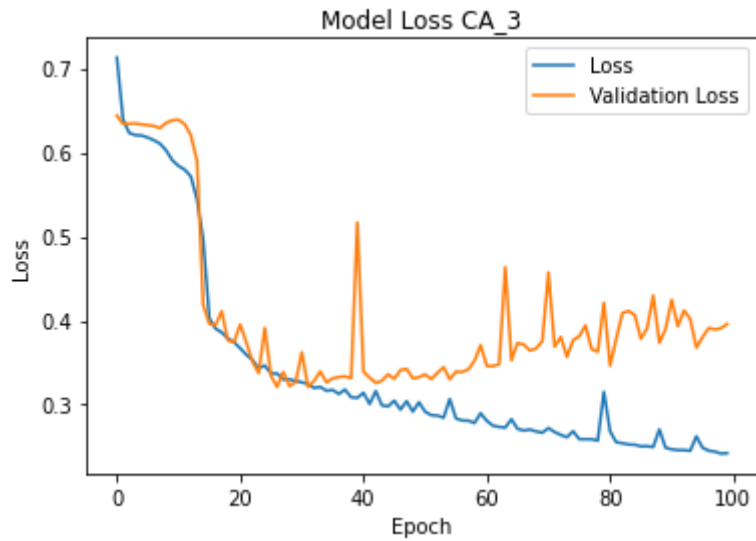


Epoch 7/100
50/50 [=====] - 5s 99ms/step - loss: 0.6144 - val_loss: 0.6314
Epoch 8/100
50/50 [=====] - 5s 96ms/step - loss: 0.6104 - val_loss: 0.6288
Epoch 9/100
50/50 [=====] - 5s 103ms/step - loss: 0.6022 - val_loss: 0.6351
Epoch 10/100
50/50 [=====] - 5s 96ms/step - loss: 0.5907 - val_loss: 0.6382
Epoch 11/100
50/50 [=====] - 5s 106ms/step - loss: 0.5839 - val_loss: 0.6388
Epoch 12/100
50/50 [=====] - 5s 93ms/step - loss: 0.5795 - val_loss: 0.6337
Epoch 13/100
50/50 [=====] - 5s 96ms/step - loss: 0.5715 - val_loss: 0.6205
Epoch 14/100
50/50 [=====] - 5s 93ms/step - loss: 0.5441 - val_loss: 0.5899
Epoch 15/100
50/50 [=====] - 5s 92ms/step - loss: 0.4964 - val_loss: 0.4187
Epoch 16/100
50/50 [=====] - 5s 94ms/step - loss: 0.4029 - val_loss: 0.3961
Epoch 17/100
50/50 [=====] - 5s 95ms/step - loss: 0.3905 - val_loss: 0.3944
Epoch 18/100
50/50 [=====] - 5s 100ms/step - loss: 0.3859 - val_loss: 0.4112
Epoch 19/100
50/50 [=====] - 5s 99ms/step - loss: 0.3789 - val_loss: 0.3766
Epoch 20/100
50/50 [=====] - 5s 99ms/step - loss: 0.3743 - val_loss: 0.3744
Epoch 21/100
50/50 [=====] - 8s 154ms/step - loss: 0.3672 - val_loss: 0.3954
Epoch 22/100
50/50 [=====] - 5s 97ms/step - loss: 0.3594 - val_loss: 0.3740
Epoch 23/100
50/50 [=====] - 5s 100ms/step - loss: 0.3531 - val_loss: 0.3512
Epoch 24/100
50/50 [=====] - 5s 96ms/step - loss: 0.3433 - val_loss: 0.3375
Epoch 25/100
50/50 [=====] - 5s 95ms/step - loss: 0.3464 - val_loss: 0.3913
Epoch 26/100
50/50 [=====] - 5s 96ms/step - loss: 0.3372 - val_loss: 0.3343
Epoch 27/100
50/50 [=====] - 5s 95ms/step - loss: 0.3369 - val_loss: 0.3213
Epoch 28/100
50/50 [=====] - 5s 95ms/step - loss: 0.3300 - val_loss: 0.3389
Epoch 29/100
50/50 [=====] - 5s 97ms/step - loss: 0.3301 - val_loss: 0.3222
Epoch 30/100
50/50 [=====] - 5s 98ms/step - loss: 0.3282 - val_loss: 0.3266

Epoch 31/100
50/50 [=====] - 5s 98ms/step - loss: 0.3266 - val_loss: 0.3624
Epoch 32/100
50/50 [=====] - 5s 97ms/step - loss: 0.3248 - val_loss: 0.3211
Epoch 33/100
50/50 [=====] - 5s 97ms/step - loss: 0.3199 - val_loss: 0.3284
Epoch 34/100
50/50 [=====] - 5s 98ms/step - loss: 0.3211 - val_loss: 0.3395
Epoch 35/100
50/50 [=====] - 5s 97ms/step - loss: 0.3165 - val_loss: 0.3267
Epoch 36/100
50/50 [=====] - 5s 96ms/step - loss: 0.3175 - val_loss: 0.3313
Epoch 37/100
50/50 [=====] - 5s 96ms/step - loss: 0.3128 - val_loss: 0.3329
Epoch 38/100
50/50 [=====] - 5s 97ms/step - loss: 0.3180 - val_loss: 0.3337
Epoch 39/100
50/50 [=====] - 5s 96ms/step - loss: 0.3088 - val_loss: 0.3315
Epoch 40/100
50/50 [=====] - 5s 97ms/step - loss: 0.3081 - val_loss: 0.5167
Epoch 41/100
50/50 [=====] - 5s 96ms/step - loss: 0.3141 - val_loss: 0.3393
Epoch 42/100
50/50 [=====] - 5s 98ms/step - loss: 0.3008 - val_loss: 0.3321
Epoch 43/100
50/50 [=====] - 5s 97ms/step - loss: 0.3161 - val_loss: 0.3259
Epoch 44/100
50/50 [=====] - 5s 96ms/step - loss: 0.2992 - val_loss: 0.3285
Epoch 45/100
50/50 [=====] - 5s 101ms/step - loss: 0.2980 - val_loss: 0.3361
Epoch 46/100
50/50 [=====] - 5s 97ms/step - loss: 0.3047 - val_loss: 0.3308
Epoch 47/100
50/50 [=====] - 5s 98ms/step - loss: 0.2941 - val_loss: 0.3412
Epoch 48/100
50/50 [=====] - 5s 96ms/step - loss: 0.3042 - val_loss: 0.3426
Epoch 49/100
50/50 [=====] - 5s 97ms/step - loss: 0.2918 - val_loss: 0.3314
Epoch 50/100
50/50 [=====] - 5s 96ms/step - loss: 0.3029 - val_loss: 0.3326
Epoch 51/100
50/50 [=====] - 5s 96ms/step - loss: 0.2917 - val_loss: 0.3360
Epoch 52/100
50/50 [=====] - 5s 99ms/step - loss: 0.2875 - val_loss: 0.3305
Epoch 53/100
50/50 [=====] - 5s 96ms/step - loss: 0.2871 - val_loss: 0.3379
Epoch 54/100
50/50 [=====] - 5s 102ms/step - loss: 0.2845 - val_loss: 0.3446

Epoch 55/100
50/50 [=====] - 5s 102ms/step - loss: 0.3068 - val_loss: 0.3301
Epoch 56/100
50/50 [=====] - 5s 101ms/step - loss: 0.2837 - val_loss: 0.3393
Epoch 57/100
50/50 [=====] - 5s 98ms/step - loss: 0.2813 - val_loss: 0.3390
Epoch 58/100
50/50 [=====] - 5s 99ms/step - loss: 0.2811 - val_loss: 0.3419
Epoch 59/100
50/50 [=====] - 5s 102ms/step - loss: 0.2782 - val_loss: 0.3520
Epoch 60/100
50/50 [=====] - 5s 98ms/step - loss: 0.2898 - val_loss: 0.3708
Epoch 61/100
50/50 [=====] - 5s 99ms/step - loss: 0.2808 - val_loss: 0.3461
Epoch 62/100
50/50 [=====] - 5s 100ms/step - loss: 0.2751 - val_loss: 0.3459
Epoch 63/100
50/50 [=====] - 5s 98ms/step - loss: 0.2735 - val_loss: 0.3481
Epoch 64/100
50/50 [=====] - 5s 102ms/step - loss: 0.2728 - val_loss: 0.4635
Epoch 65/100
50/50 [=====] - 5s 98ms/step - loss: 0.2827 - val_loss: 0.3529
Epoch 66/100
50/50 [=====] - 5s 99ms/step - loss: 0.2713 - val_loss: 0.3734
Epoch 67/100
50/50 [=====] - 5s 99ms/step - loss: 0.2693 - val_loss: 0.3716
Epoch 68/100
50/50 [=====] - 5s 102ms/step - loss: 0.2705 - val_loss: 0.3645
Epoch 69/100
50/50 [=====] - 5s 100ms/step - loss: 0.2683 - val_loss: 0.3668
Epoch 70/100
50/50 [=====] - 5s 98ms/step - loss: 0.2667 - val_loss: 0.3754
Epoch 71/100
50/50 [=====] - 5s 96ms/step - loss: 0.2721 - val_loss: 0.4574
Epoch 72/100
50/50 [=====] - 5s 97ms/step - loss: 0.2676 - val_loss: 0.3690
Epoch 73/100
50/50 [=====] - 5s 95ms/step - loss: 0.2641 - val_loss: 0.3806
Epoch 74/100
50/50 [=====] - 5s 98ms/step - loss: 0.2614 - val_loss: 0.3570
Epoch 75/100
50/50 [=====] - 5s 97ms/step - loss: 0.2684 - val_loss: 0.3767
Epoch 76/100
50/50 [=====] - 5s 99ms/step - loss: 0.2590 - val_loss: 0.3812
Epoch 77/100
50/50 [=====] - 5s 95ms/step - loss: 0.2590 - val_loss: 0.3942
Epoch 78/100
50/50 [=====] - 5s 96ms/step - loss: 0.2590 - val_loss: 0.3662

Epoch 79/100
50/50 [=====] - 5s 96ms/step - loss: 0.2573 - val_loss: 0.3630
Epoch 80/100
50/50 [=====] - 5s 96ms/step - loss: 0.3152 - val_loss: 0.4212
Epoch 81/100
50/50 [=====] - 5s 98ms/step - loss: 0.2684 - val_loss: 0.3464
Epoch 82/100
50/50 [=====] - 5s 100ms/step - loss: 0.2554 - val_loss: 0.3783
Epoch 83/100
50/50 [=====] - 5s 100ms/step - loss: 0.2542 - val_loss: 0.4089
Epoch 84/100
50/50 [=====] - 5s 100ms/step - loss: 0.2527 - val_loss: 0.4114
Epoch 85/100
50/50 [=====] - 5s 100ms/step - loss: 0.2524 - val_loss: 0.4067
Epoch 86/100
50/50 [=====] - 5s 100ms/step - loss: 0.2505 - val_loss: 0.3784
Epoch 87/100
50/50 [=====] - 5s 96ms/step - loss: 0.2507 - val_loss: 0.3906
Epoch 88/100
50/50 [=====] - 5s 99ms/step - loss: 0.2497 - val_loss: 0.4300
Epoch 89/100
50/50 [=====] - 5s 97ms/step - loss: 0.2706 - val_loss: 0.3737
Epoch 90/100
50/50 [=====] - 5s 97ms/step - loss: 0.2489 - val_loss: 0.3897
Epoch 91/100
50/50 [=====] - 5s 97ms/step - loss: 0.2469 - val_loss: 0.4248
Epoch 92/100
50/50 [=====] - 5s 99ms/step - loss: 0.2460 - val_loss: 0.3932
Epoch 93/100
50/50 [=====] - 5s 99ms/step - loss: 0.2460 - val_loss: 0.4121
Epoch 94/100
50/50 [=====] - 5s 100ms/step - loss: 0.2452 - val_loss: 0.4019
Epoch 95/100
50/50 [=====] - 5s 97ms/step - loss: 0.2623 - val_loss: 0.3678
Epoch 96/100
50/50 [=====] - 5s 98ms/step - loss: 0.2490 - val_loss: 0.3803
Epoch 97/100
50/50 [=====] - 5s 96ms/step - loss: 0.2453 - val_loss: 0.3912
Epoch 98/100
50/50 [=====] - 5s 96ms/step - loss: 0.2443 - val_loss: 0.3894
Epoch 99/100
50/50 [=====] - 5s 96ms/step - loss: 0.2418 - val_loss: 0.3909
Epoch 100/100
50/50 [=====] - 5s 98ms/step - loss: 0.2424 - val_loss: 0.3959



CA_3 - True Future: [8164. 6371. 5244. 5309. 5261. 5637. 7217. 8094. 6446. 5722. 5740. 5951. 5986. 7347. 6696. 5930. 5882. 6421. 6547. 5928.]

CA_3 - Model Prediction: [7814.8643 6024.264 5216.917 4786.0293 4598.587 4889.1963 6384.3843

6972.7637 5499.912 5096.4185 5075.3774 5224.2896 5808.3516 7420.2466 7953.984 6447.902 5838.986 5488.7974 5316.862 5601.036]

CA_3 - Model Percentage Error: [4.27652795 5.44240841 0.51645705 9.85064425 12.59101095 13.26598742

11.53686743 13.85268505 14.67713141 10.93291756 11.57879022 12.21156863 2.967732 0.99695906 18.78709508 8.73358947 0.7312846 14.51802892

18.78934143 5.5155848]%

CA_3 - Model Mean Percentage Error: 9.5886305851607%

=====
=====

Training Model for CA_4...

Epoch 1/100

50/50 [=====] - 5s 106ms/step - loss: 0.7149 - val_loss: 0.7980

Epoch 2/100

50/50 [=====] - 5s 96ms/step - loss: 0.6358 - val_loss: 0.5926

Epoch 3/100

50/50 [=====] - 5s 97ms/step - loss: 0.5890 - val_loss: 0.6075

Epoch 4/100

50/50 [=====] - 5s 95ms/step - loss: 0.5345 - val_loss: 0.6097

Epoch 5/100

50/50 [=====] - 5s 97ms/step - loss: 0.5163 - val_loss: 0.6023

Epoch 6/100

50/50 [=====] - 5s 101ms/step - loss: 0.5151 - val_loss: 0.5881

Epoch 7/100

50/50 [=====] - 5s 94ms/step - loss: 0.5113 - val_loss: 0.5782

Epoch 8/100

50/50 [=====] - 5s 94ms/step - loss: 0.5090 - val_loss: 0.5639

Epoch 9/100

50/50 [=====] - 5s 95ms/step - loss: 0.5040 - val_loss: 0.5505

Epoch 10/100

50/50 [=====] - 5s 98ms/step - loss: 0.4893 - val_loss: 0.5373

Epoch 11/100

50/50 [=====] - 5s 96ms/step - loss: 0.4577 - val_loss: 0.5091

Epoch 12/100

50/50 [=====] - 5s 96ms/step - loss: 0.4310 - val_loss: 0.6259

Epoch 13/100

50/50 [=====] - 5s 97ms/step - loss: 0.4031 - val_loss: 0.4549

Epoch 14/100

50/50 [=====] - 5s 100ms/step - loss: 0.3876 - val_loss: 0.4653

Epoch 15/100

50/50 [=====] - 5s 99ms/step - loss: 0.3816 - val_loss: 0.4086

Epoch 16/100

50/50 [=====] - 5s 98ms/step - loss: 0.3749 - val_loss: 0.4560

Epoch 17/100

50/50 [=====] - 5s 96ms/step - loss: 0.3740 - val_loss: 0.4795

Epoch 18/100

50/50 [=====] - 5s 97ms/step - loss: 0.3713 - val_loss: 0.4237

Epoch 19/100

50/50 [=====] - 5s 99ms/step - loss: 0.3708 - val_loss: 0.4663

Epoch 20/100

50/50 [=====] - 5s 97ms/step - loss: 0.3692 - val_loss: 0.4101

Epoch 21/100

50/50 [=====] - 5s 97ms/step - loss: 0.3678 - val_loss: 0.4358

Epoch 22/100
50/50 [=====] - 5s 104ms/step - loss: 0.3661 - val_loss: 0.4156
Epoch 23/100
50/50 [=====] - 5s 98ms/step - loss: 0.3648 - val_loss: 0.4240
Epoch 24/100
50/50 [=====] - 5s 95ms/step - loss: 0.3629 - val_loss: 0.4382
Epoch 25/100
50/50 [=====] - 5s 99ms/step - loss: 0.3633 - val_loss: 0.4205
Epoch 26/100
50/50 [=====] - 5s 101ms/step - loss: 0.3889 - val_loss: 0.4533
Epoch 27/100
50/50 [=====] - 5s 97ms/step - loss: 0.3624 - val_loss: 0.4436
Epoch 28/100
50/50 [=====] - 5s 95ms/step - loss: 0.3621 - val_loss: 0.4191
Epoch 29/100
50/50 [=====] - 5s 100ms/step - loss: 0.3662 - val_loss: 0.4235
Epoch 30/100
50/50 [=====] - 5s 104ms/step - loss: 0.3595 - val_loss: 0.4128
Epoch 31/100
50/50 [=====] - 5s 97ms/step - loss: 0.3603 - val_loss: 0.4107
Epoch 32/100
50/50 [=====] - 5s 99ms/step - loss: 0.3565 - val_loss: 0.3968
Epoch 33/100
50/50 [=====] - 5s 98ms/step - loss: 0.3595 - val_loss: 0.4143
Epoch 34/100
50/50 [=====] - 5s 99ms/step - loss: 0.3585 - val_loss: 0.4073
Epoch 35/100
50/50 [=====] - 5s 98ms/step - loss: 0.3534 - val_loss: 0.3959
Epoch 36/100
50/50 [=====] - 5s 96ms/step - loss: 0.3702 - val_loss: 0.4365
Epoch 37/100
50/50 [=====] - 5s 99ms/step - loss: 0.3522 - val_loss: 0.4424
Epoch 38/100
50/50 [=====] - 5s 99ms/step - loss: 0.3505 - val_loss: 0.4209
Epoch 39/100
50/50 [=====] - 5s 100ms/step - loss: 0.3699 - val_loss: 0.4520
Epoch 40/100
50/50 [=====] - 5s 98ms/step - loss: 0.3559 - val_loss: 0.4444
Epoch 41/100
50/50 [=====] - 6s 116ms/step - loss: 0.3520 - val_loss: 0.4135
Epoch 42/100
50/50 [=====] - 6s 129ms/step - loss: 0.3473 - val_loss: 0.3781
Epoch 43/100
50/50 [=====] - 5s 98ms/step - loss: 0.3562 - val_loss: 0.4236
Epoch 44/100
50/50 [=====] - 5s 97ms/step - loss: 0.3760 - val_loss: 0.4964
Epoch 45/100
50/50 [=====] - 5s 96ms/step - loss: 0.3571 - val_loss: 0.4122

Epoch 46/100
50/50 [=====] - 5s 99ms/step - loss: 0.3447 - val_loss: 0.3845
Epoch 47/100
50/50 [=====] - 5s 99ms/step - loss: 0.3418 - val_loss: 0.4077
Epoch 48/100
50/50 [=====] - 5s 98ms/step - loss: 0.3529 - val_loss: 0.3982
Epoch 49/100
50/50 [=====] - 5s 99ms/step - loss: 0.3429 - val_loss: 0.4344
Epoch 50/100
50/50 [=====] - 5s 95ms/step - loss: 0.3405 - val_loss: 0.4105
Epoch 51/100
50/50 [=====] - 5s 104ms/step - loss: 0.3368 - val_loss: 0.3932
Epoch 52/100
50/50 [=====] - 5s 97ms/step - loss: 0.3516 - val_loss: 0.6161
Epoch 53/100
50/50 [=====] - 5s 99ms/step - loss: 0.4325 - val_loss: 0.4453
Epoch 54/100
50/50 [=====] - 5s 98ms/step - loss: 0.3564 - val_loss: 0.4071
Epoch 55/100
50/50 [=====] - 5s 100ms/step - loss: 0.3407 - val_loss: 0.4266
Epoch 56/100
50/50 [=====] - 5s 100ms/step - loss: 0.3360 - val_loss: 0.3832
Epoch 57/100
50/50 [=====] - 5s 98ms/step - loss: 0.3467 - val_loss: 0.4101
Epoch 58/100
50/50 [=====] - 5s 97ms/step - loss: 0.3341 - val_loss: 0.3983
Epoch 59/100
50/50 [=====] - 5s 98ms/step - loss: 0.3324 - val_loss: 0.4015
Epoch 60/100
50/50 [=====] - 5s 97ms/step - loss: 0.3310 - val_loss: 0.3757
Epoch 61/100
50/50 [=====] - 5s 97ms/step - loss: 0.3304 - val_loss: 0.4150
Epoch 62/100
50/50 [=====] - 5s 96ms/step - loss: 0.3339 - val_loss: 0.3715
Epoch 63/100
50/50 [=====] - 5s 96ms/step - loss: 0.3282 - val_loss: 0.3924
Epoch 64/100
50/50 [=====] - 5s 97ms/step - loss: 0.3264 - val_loss: 0.3908
Epoch 65/100
50/50 [=====] - 5s 99ms/step - loss: 0.3323 - val_loss: 0.3829
Epoch 66/100
50/50 [=====] - 5s 99ms/step - loss: 0.3255 - val_loss: 0.3864
Epoch 67/100
50/50 [=====] - 5s 99ms/step - loss: 0.3375 - val_loss: 0.3949
Epoch 68/100
50/50 [=====] - 5s 96ms/step - loss: 0.3221 - val_loss: 0.3837
Epoch 69/100
50/50 [=====] - 5s 96ms/step - loss: 0.3212 - val_loss: 0.3976

Epoch 70/100
50/50 [=====] - 5s 97ms/step - loss: 0.3256 - val_loss: 0.4129
Epoch 71/100
50/50 [=====] - 5s 100ms/step - loss: 0.3191 - val_loss: 0.4229
Epoch 72/100
50/50 [=====] - 5s 98ms/step - loss: 0.3275 - val_loss: 0.4081
Epoch 73/100
50/50 [=====] - 5s 98ms/step - loss: 0.3181 - val_loss: 0.3975
Epoch 74/100
50/50 [=====] - 5s 97ms/step - loss: 0.3150 - val_loss: 0.3962
Epoch 75/100
50/50 [=====] - 5s 98ms/step - loss: 0.3326 - val_loss: 0.3974
Epoch 76/100
50/50 [=====] - 5s 99ms/step - loss: 0.3143 - val_loss: 0.4248
Epoch 77/100
50/50 [=====] - 5s 97ms/step - loss: 0.3122 - val_loss: 0.4227
Epoch 78/100
50/50 [=====] - 5s 99ms/step - loss: 0.3411 - val_loss: 0.4260
Epoch 79/100
50/50 [=====] - 5s 99ms/step - loss: 0.3146 - val_loss: 0.4222
Epoch 80/100
50/50 [=====] - 5s 104ms/step - loss: 0.3098 - val_loss: 0.4360
Epoch 81/100
50/50 [=====] - 5s 98ms/step - loss: 0.3133 - val_loss: 0.4160
Epoch 82/100
50/50 [=====] - 5s 98ms/step - loss: 0.3070 - val_loss: 0.4136
Epoch 83/100
50/50 [=====] - 5s 96ms/step - loss: 0.3190 - val_loss: 0.4330
Epoch 84/100
50/50 [=====] - 5s 97ms/step - loss: 0.3064 - val_loss: 0.4018
Epoch 85/100
50/50 [=====] - 5s 99ms/step - loss: 0.3068 - val_loss: 0.4094
Epoch 86/100
50/50 [=====] - 5s 98ms/step - loss: 0.3037 - val_loss: 0.4193
Epoch 87/100
50/50 [=====] - 5s 100ms/step - loss: 0.3114 - val_loss: 0.4087
Epoch 88/100
50/50 [=====] - 5s 98ms/step - loss: 0.3170 - val_loss: 0.4309
Epoch 89/100
50/50 [=====] - 5s 99ms/step - loss: 0.3084 - val_loss: 0.4146
Epoch 90/100
50/50 [=====] - 5s 99ms/step - loss: 0.3024 - val_loss: 0.4098
Epoch 91/100
50/50 [=====] - 5s 102ms/step - loss: 0.3074 - val_loss: 0.4385
Epoch 92/100
50/50 [=====] - 5s 101ms/step - loss: 0.3005 - val_loss: 0.4253
Epoch 93/100
50/50 [=====] - 5s 97ms/step - loss: 0.2987 - val_loss: 0.4203

Epoch 94/100

50/50 [=====] - 5s 98ms/step - loss: 0.3708 - val_loss: 0.4639

Epoch 95/100

50/50 [=====] - 5s 100ms/step - loss: 0.3142 - val_loss: 0.4337

Epoch 96/100

50/50 [=====] - 5s 100ms/step - loss: 0.2992 - val_loss: 0.4297

Epoch 97/100

50/50 [=====] - 5s 97ms/step - loss: 0.2971 - val_loss: 0.4498

Epoch 98/100

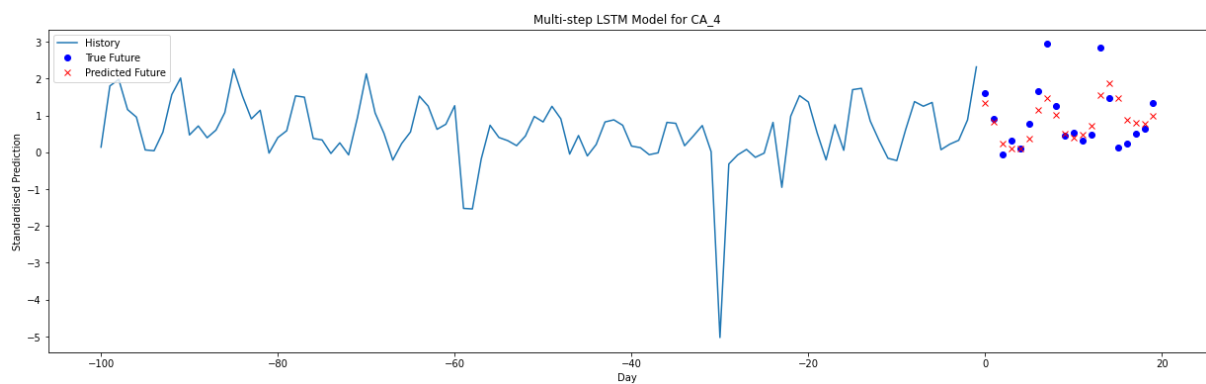
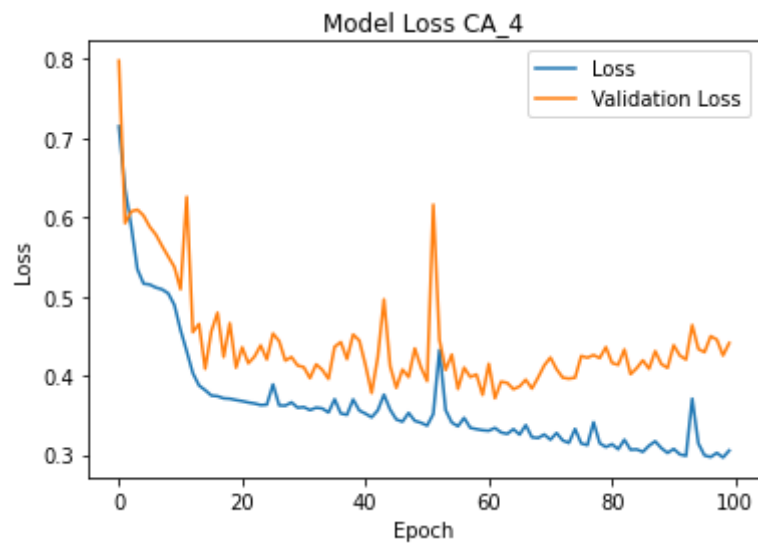
50/50 [=====] - 5s 98ms/step - loss: 0.3023 - val_loss: 0.4456

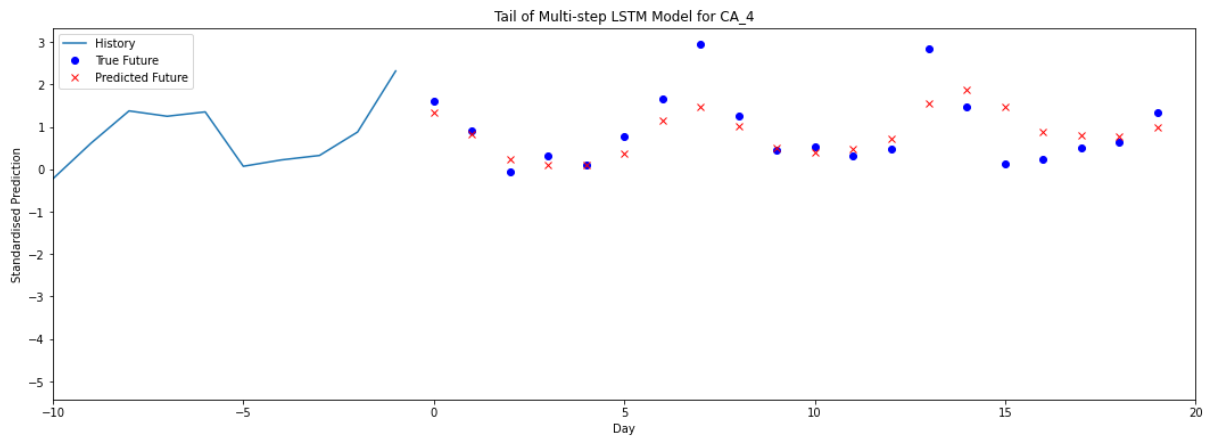
Epoch 99/100

50/50 [=====] - 5s 99ms/step - loss: 0.2966 - val_loss: 0.4255

Epoch 100/100

50/50 [=====] - 5s 98ms/step - loss: 0.3054 - val_loss: 0.4411





CA_4 - True Future: [2787. 2487. 2088. 2239. 2153. 2432. 2806. 3343. 2643. 2299. 2335. 2244. 2316. 3301. 2727. 2166. 2207. 2323. 2383. 2677.]

CA_4 - Model Prediction: [2673.9016 2454.3157 2209.8918 2150.6587 2155.938 2261.1963 2588.6462

2727.4688 2538.165 2323.83 2274.7305 2305.7092 2416.3577 2757.492

2898.6152 2728.092 2483.2385 2443.4958 2430.8774 2528.3633]

CA_4 - Model Percentage Error: [4.0580692 1.31420692 5.83773207 3.94556983 0.13646021 7.0231789

7.74603563 18.41254113 3.96651385 1.0800382 2.58113624 2.74996562

4.33323256 16.46495173 6.29318791 25.95069441 12.51647147 5.18707919

2.00912469 5.55236155]%

CA_4 - Model Mean Percentage Error: 6.8579275665662465%

=====

=====

Training Model for TX_1...

Epoch 1/100

50/50 [=====] - 6s 111ms/step - loss: 0.7515 - val_loss: 0.7806

Epoch 2/100

50/50 [=====] - 5s 94ms/step - loss: 0.7240 - val_loss: 0.7511

Epoch 3/100

50/50 [=====] - 5s 95ms/step - loss: 0.7068 - val_loss: 0.7234

Epoch 4/100

50/50 [=====] - 5s 95ms/step - loss: 0.7040 - val_loss: 0.7164

Epoch 5/100

50/50 [=====] - 5s 95ms/step - loss: 0.7016 - val_loss: 0.7118

Epoch 6/100

50/50 [=====] - 5s 96ms/step - loss: 0.7013 - val_loss: 0.7094

Epoch 7/100

50/50 [=====] - 5s 97ms/step - loss: 0.7002 - val_loss: 0.7036

Epoch 8/100

50/50 [=====] - 5s 96ms/step - loss: 0.6985 - val_loss: 0.6964

Epoch 9/100

50/50 [=====] - 5s 94ms/step - loss: 0.6950 - val_loss: 0.6943

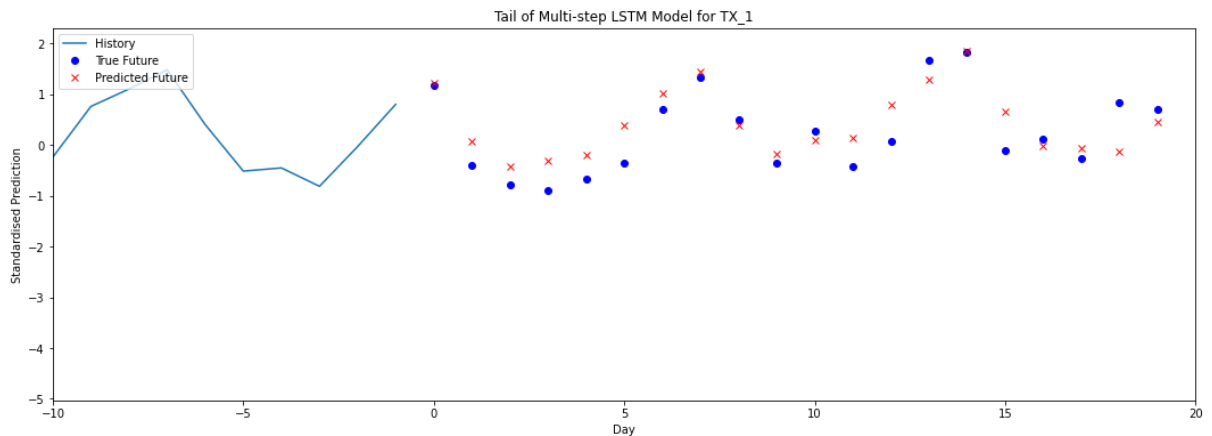
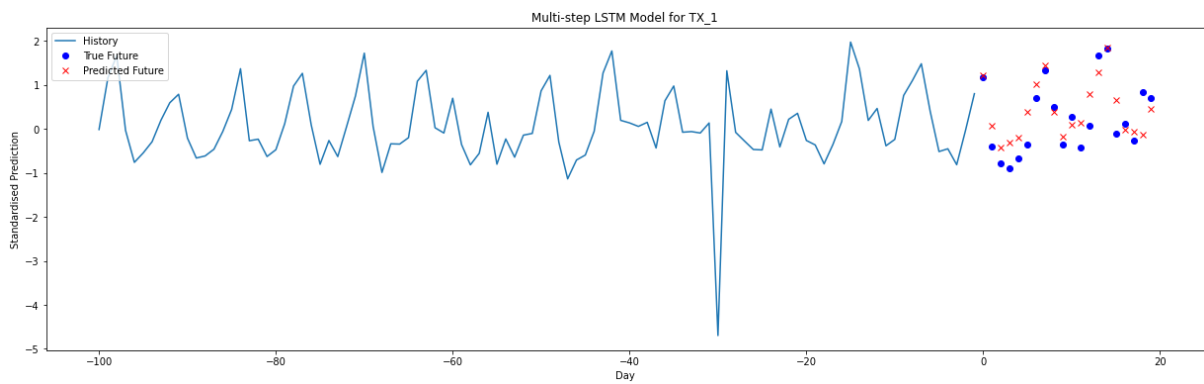
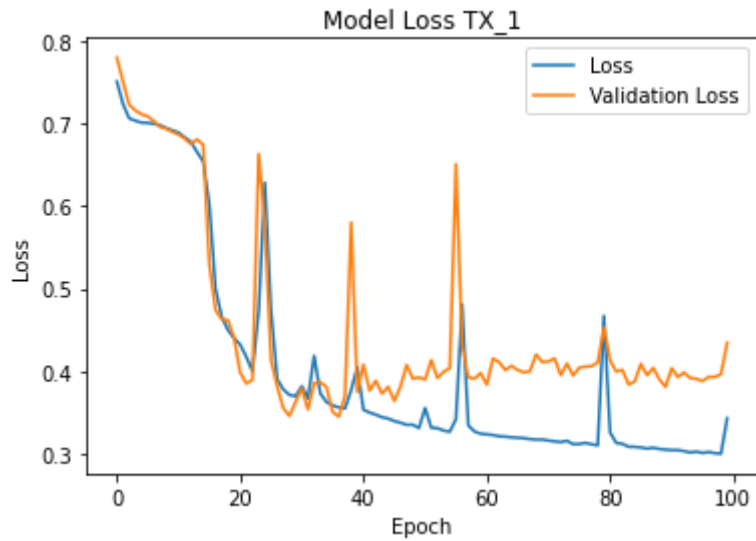
Epoch 10/100

50/50 [=====] - 5s 94ms/step - loss: 0.6922 - val_loss: 0.6904
Epoch 11/100
50/50 [=====] - 5s 97ms/step - loss: 0.6896 - val_loss: 0.6873
Epoch 12/100
50/50 [=====] - 5s 98ms/step - loss: 0.6837 - val_loss: 0.6823
Epoch 13/100
50/50 [=====] - 5s 94ms/step - loss: 0.6785 - val_loss: 0.6757
Epoch 14/100
50/50 [=====] - 5s 96ms/step - loss: 0.6660 - val_loss: 0.6813
Epoch 15/100
50/50 [=====] - 5s 97ms/step - loss: 0.6547 - val_loss: 0.6747
Epoch 16/100
50/50 [=====] - 5s 94ms/step - loss: 0.6024 - val_loss: 0.5293
Epoch 17/100
50/50 [=====] - 5s 94ms/step - loss: 0.5000 - val_loss: 0.4742
Epoch 18/100
50/50 [=====] - 5s 94ms/step - loss: 0.4661 - val_loss: 0.4628
Epoch 19/100
50/50 [=====] - 5s 97ms/step - loss: 0.4502 - val_loss: 0.4619
Epoch 20/100
50/50 [=====] - 5s 98ms/step - loss: 0.4399 - val_loss: 0.4407
Epoch 21/100
50/50 [=====] - 5s 96ms/step - loss: 0.4322 - val_loss: 0.3987
Epoch 22/100
50/50 [=====] - 5s 95ms/step - loss: 0.4174 - val_loss: 0.3848
Epoch 23/100
50/50 [=====] - 5s 94ms/step - loss: 0.3998 - val_loss: 0.3894
Epoch 24/100
50/50 [=====] - 5s 94ms/step - loss: 0.4726 - val_loss: 0.6638
Epoch 25/100
50/50 [=====] - 5s 98ms/step - loss: 0.6288 - val_loss: 0.5779
Epoch 26/100
50/50 [=====] - 5s 95ms/step - loss: 0.4741 - val_loss: 0.4140
Epoch 27/100
50/50 [=====] - 5s 96ms/step - loss: 0.3904 - val_loss: 0.3815
Epoch 28/100
50/50 [=====] - 5s 94ms/step - loss: 0.3777 - val_loss: 0.3550
Epoch 29/100
50/50 [=====] - 5s 96ms/step - loss: 0.3711 - val_loss: 0.3455
Epoch 30/100
50/50 [=====] - 5s 97ms/step - loss: 0.3696 - val_loss: 0.3630
Epoch 31/100
50/50 [=====] - 5s 94ms/step - loss: 0.3817 - val_loss: 0.3790
Epoch 32/100
50/50 [=====] - 5s 96ms/step - loss: 0.3668 - val_loss: 0.3533
Epoch 33/100
50/50 [=====] - 5s 97ms/step - loss: 0.4186 - val_loss: 0.3850
Epoch 34/100

50/50 [=====] - 5s 95ms/step - loss: 0.3729 - val_loss: 0.3865
Epoch 35/100
50/50 [=====] - 5s 97ms/step - loss: 0.3625 - val_loss: 0.3808
Epoch 36/100
50/50 [=====] - 5s 96ms/step - loss: 0.3583 - val_loss: 0.3505
Epoch 37/100
50/50 [=====] - 5s 98ms/step - loss: 0.3560 - val_loss: 0.3446
Epoch 38/100
50/50 [=====] - 5s 95ms/step - loss: 0.3546 - val_loss: 0.3699
Epoch 39/100
50/50 [=====] - 5s 95ms/step - loss: 0.3768 - val_loss: 0.5805
Epoch 40/100
50/50 [=====] - 5s 95ms/step - loss: 0.4048 - val_loss: 0.3746
Epoch 41/100
50/50 [=====] - 5s 95ms/step - loss: 0.3530 - val_loss: 0.4080
Epoch 42/100
50/50 [=====] - 5s 94ms/step - loss: 0.3497 - val_loss: 0.3763
Epoch 43/100
50/50 [=====] - 5s 95ms/step - loss: 0.3471 - val_loss: 0.3884
Epoch 44/100
50/50 [=====] - 5s 94ms/step - loss: 0.3441 - val_loss: 0.3726
Epoch 45/100
50/50 [=====] - 5s 97ms/step - loss: 0.3424 - val_loss: 0.3810
Epoch 46/100
50/50 [=====] - 5s 96ms/step - loss: 0.3394 - val_loss: 0.3638
Epoch 47/100
50/50 [=====] - 5s 98ms/step - loss: 0.3374 - val_loss: 0.3811
Epoch 48/100
50/50 [=====] - 5s 100ms/step - loss: 0.3348 - val_loss: 0.4074
Epoch 49/100
50/50 [=====] - 5s 94ms/step - loss: 0.3350 - val_loss: 0.3909
Epoch 50/100
50/50 [=====] - 5s 96ms/step - loss: 0.3308 - val_loss: 0.3923
Epoch 51/100
50/50 [=====] - 5s 95ms/step - loss: 0.3552 - val_loss: 0.3899
Epoch 52/100
50/50 [=====] - 5s 96ms/step - loss: 0.3313 - val_loss: 0.4133
Epoch 53/100
50/50 [=====] - 5s 99ms/step - loss: 0.3307 - val_loss: 0.3916
Epoch 54/100
50/50 [=====] - 5s 100ms/step - loss: 0.3278 - val_loss: 0.3993
Epoch 55/100
50/50 [=====] - 5s 99ms/step - loss: 0.3264 - val_loss: 0.4035
Epoch 56/100
50/50 [=====] - 5s 96ms/step - loss: 0.3417 - val_loss: 0.6512
Epoch 57/100
50/50 [=====] - 5s 95ms/step - loss: 0.4810 - val_loss: 0.4307
Epoch 58/100

50/50 [=====] - 5s 96ms/step - loss: 0.3342 - val_loss: 0.3926
Epoch 59/100
50/50 [=====] - 5s 94ms/step - loss: 0.3268 - val_loss: 0.3908
Epoch 60/100
50/50 [=====] - 5s 95ms/step - loss: 0.3240 - val_loss: 0.3975
Epoch 61/100
50/50 [=====] - 5s 100ms/step - loss: 0.3232 - val_loss: 0.3834
Epoch 62/100
50/50 [=====] - 5s 96ms/step - loss: 0.3224 - val_loss: 0.4152
Epoch 63/100
50/50 [=====] - 6s 122ms/step - loss: 0.3209 - val_loss: 0.4110
Epoch 64/100
50/50 [=====] - 6s 120ms/step - loss: 0.3205 - val_loss: 0.4013
Epoch 65/100
50/50 [=====] - 5s 95ms/step - loss: 0.3196 - val_loss: 0.4063
Epoch 66/100
50/50 [=====] - 5s 95ms/step - loss: 0.3191 - val_loss: 0.4013
Epoch 67/100
50/50 [=====] - 5s 97ms/step - loss: 0.3186 - val_loss: 0.3986
Epoch 68/100
50/50 [=====] - 5s 95ms/step - loss: 0.3175 - val_loss: 0.3997
Epoch 69/100
50/50 [=====] - 5s 95ms/step - loss: 0.3168 - val_loss: 0.4202
Epoch 70/100
50/50 [=====] - 5s 98ms/step - loss: 0.3169 - val_loss: 0.4110
Epoch 71/100
50/50 [=====] - 5s 96ms/step - loss: 0.3158 - val_loss: 0.4117
Epoch 72/100
50/50 [=====] - 5s 95ms/step - loss: 0.3147 - val_loss: 0.4154
Epoch 73/100
50/50 [=====] - 5s 95ms/step - loss: 0.3139 - val_loss: 0.3951
Epoch 74/100
50/50 [=====] - 5s 99ms/step - loss: 0.3154 - val_loss: 0.4092
Epoch 75/100
50/50 [=====] - 5s 97ms/step - loss: 0.3113 - val_loss: 0.3946
Epoch 76/100
50/50 [=====] - 5s 98ms/step - loss: 0.3116 - val_loss: 0.4042
Epoch 77/100
50/50 [=====] - 5s 97ms/step - loss: 0.3128 - val_loss: 0.4055
Epoch 78/100
50/50 [=====] - 5s 98ms/step - loss: 0.3112 - val_loss: 0.4059
Epoch 79/100
50/50 [=====] - 5s 98ms/step - loss: 0.3098 - val_loss: 0.4105
Epoch 80/100
50/50 [=====] - 5s 97ms/step - loss: 0.4671 - val_loss: 0.4533
Epoch 81/100
50/50 [=====] - 5s 98ms/step - loss: 0.3256 - val_loss: 0.4133
Epoch 82/100

50/50 [=====] - 5s 98ms/step - loss: 0.3128 - val_loss: 0.3995
Epoch 83/100
50/50 [=====] - 5s 97ms/step - loss: 0.3117 - val_loss: 0.4014
Epoch 84/100
50/50 [=====] - 5s 98ms/step - loss: 0.3082 - val_loss: 0.3840
Epoch 85/100
50/50 [=====] - 5s 100ms/step - loss: 0.3081 - val_loss: 0.3874
Epoch 86/100
50/50 [=====] - 5s 97ms/step - loss: 0.3073 - val_loss: 0.4088
Epoch 87/100
50/50 [=====] - 5s 97ms/step - loss: 0.3059 - val_loss: 0.3951
Epoch 88/100
50/50 [=====] - 5s 96ms/step - loss: 0.3070 - val_loss: 0.4039
Epoch 89/100
50/50 [=====] - 5s 96ms/step - loss: 0.3055 - val_loss: 0.3899
Epoch 90/100
50/50 [=====] - 5s 95ms/step - loss: 0.3047 - val_loss: 0.3810
Epoch 91/100
50/50 [=====] - 5s 96ms/step - loss: 0.3041 - val_loss: 0.4035
Epoch 92/100
50/50 [=====] - 5s 95ms/step - loss: 0.3041 - val_loss: 0.3928
Epoch 93/100
50/50 [=====] - 5s 96ms/step - loss: 0.3028 - val_loss: 0.3982
Epoch 94/100
50/50 [=====] - 5s 98ms/step - loss: 0.3012 - val_loss: 0.3916
Epoch 95/100
50/50 [=====] - 5s 97ms/step - loss: 0.3022 - val_loss: 0.3907
Epoch 96/100
50/50 [=====] - 5s 96ms/step - loss: 0.3007 - val_loss: 0.3879
Epoch 97/100
50/50 [=====] - 5s 97ms/step - loss: 0.3018 - val_loss: 0.3931
Epoch 98/100
50/50 [=====] - 5s 97ms/step - loss: 0.3003 - val_loss: 0.3929
Epoch 99/100
50/50 [=====] - 5s 95ms/step - loss: 0.2998 - val_loss: 0.3961
Epoch 100/100
50/50 [=====] - 5s 94ms/step - loss: 0.3427 - val_loss: 0.4345



TX_1 - True Future: [3639. 2666. 2426. 2357. 2497. 2693. 3347. 3727. 3213. 2681. 3081. 2645. 2949. 3939. 4034. 2845. 2978. 2745. 3431. 3343.]

TX_1 - Model Prediction: [3667.8555 2947.0688 2650.2078 2721.8833 2780.7595 3151.6636 3538.908

3804.123 3148.6497 2805.525 2972.349 2987.4067 3399.7773 3699.6184

4049.0415 3311.1245 2899.6594 2866.32 2832.0315 3185.4565]

TX_1 - Model Percentage Error: [0.7929505 10.54271747 9.2418699 15.48083584 11.36401768 17.03169603

5.73373047 2.06930633 2.00281176 4.64471848 3.52648098 12.94543434

15.28576954 6.07721736 0.37286822 16.38398987 2.63064393 4.41967462

17.45754899 4.71263706]%

TX_1 - Model Mean Percentage Error: 8.135845968170852%

=====
=====

Training Model for TX_2...

Epoch 1/100

50/50 [=====] - 5s 102ms/step - loss: 0.7619 - val_loss: 0.7000

Epoch 2/100

50/50 [=====] - 5s 94ms/step - loss: 0.7337 - val_loss: 0.6941

Epoch 3/100

50/50 [=====] - 5s 93ms/step - loss: 0.7070 - val_loss: 0.6878

Epoch 4/100

50/50 [=====] - 5s 94ms/step - loss: 0.6986 - val_loss: 0.6836

Epoch 5/100

50/50 [=====] - 5s 94ms/step - loss: 0.6965 - val_loss: 0.6852

Epoch 6/100

50/50 [=====] - 5s 95ms/step - loss: 0.6961 - val_loss: 0.6765

Epoch 7/100

50/50 [=====] - 5s 98ms/step - loss: 0.6961 - val_loss: 0.6772

Epoch 8/100

50/50 [=====] - 5s 95ms/step - loss: 0.6929 - val_loss: 0.6845

Epoch 9/100

50/50 [=====] - 5s 97ms/step - loss: 0.6911 - val_loss: 0.6798

Epoch 10/100

50/50 [=====] - 5s 95ms/step - loss: 0.6871 - val_loss: 0.6722

Epoch 11/100

50/50 [=====] - 5s 94ms/step - loss: 0.6817 - val_loss: 0.6679

Epoch 12/100

50/50 [=====] - 5s 95ms/step - loss: 0.6789 - val_loss: 0.6577

Epoch 13/100

50/50 [=====] - 5s 96ms/step - loss: 0.6361 - val_loss: 0.5274

Epoch 14/100

50/50 [=====] - 5s 98ms/step - loss: 0.5073 - val_loss: 0.4874

Epoch 15/100

50/50 [=====] - 5s 98ms/step - loss: 0.4689 - val_loss: 0.4469

Epoch 16/100

50/50 [=====] - 5s 96ms/step - loss: 0.4590 - val_loss: 0.4433

Epoch 17/100

50/50 [=====] - 5s 94ms/step - loss: 0.4504 - val_loss: 0.4268

Epoch 18/100

50/50 [=====] - 5s 93ms/step - loss: 0.4547 - val_loss: 0.4293

Epoch 19/100

50/50 [=====] - 5s 94ms/step - loss: 0.4362 - val_loss: 0.4213

Epoch 20/100

50/50 [=====] - 5s 96ms/step - loss: 0.4293 - val_loss: 0.4208

Epoch 21/100

50/50 [=====] - 5s 95ms/step - loss: 0.4169 - val_loss: 0.4076

Epoch 22/100
50/50 [=====] - 5s 97ms/step - loss: 0.4397 - val_loss: 0.4038
Epoch 23/100
50/50 [=====] - 5s 95ms/step - loss: 0.4003 - val_loss: 0.4158
Epoch 24/100
50/50 [=====] - 5s 93ms/step - loss: 0.4586 - val_loss: 0.4901
Epoch 25/100
50/50 [=====] - 5s 96ms/step - loss: 0.4161 - val_loss: 0.3959
Epoch 26/100
50/50 [=====] - 5s 95ms/step - loss: 0.3901 - val_loss: 0.4023
Epoch 27/100
50/50 [=====] - 5s 95ms/step - loss: 0.4286 - val_loss: 0.3869
Epoch 28/100
50/50 [=====] - 5s 98ms/step - loss: 0.3925 - val_loss: 0.3827
Epoch 29/100
50/50 [=====] - 5s 98ms/step - loss: 0.3770 - val_loss: 0.3731
Epoch 30/100
50/50 [=====] - 5s 94ms/step - loss: 0.3919 - val_loss: 0.4144
Epoch 31/100
50/50 [=====] - 5s 96ms/step - loss: 0.3952 - val_loss: 0.3584
Epoch 32/100
50/50 [=====] - 5s 95ms/step - loss: 0.3683 - val_loss: 0.3671
Epoch 33/100
50/50 [=====] - 5s 99ms/step - loss: 0.3727 - val_loss: 0.3575
Epoch 34/100
50/50 [=====] - 5s 97ms/step - loss: 0.3636 - val_loss: 0.3722
Epoch 35/100
50/50 [=====] - 5s 96ms/step - loss: 0.3586 - val_loss: 0.3713
Epoch 36/100
50/50 [=====] - 5s 96ms/step - loss: 0.4853 - val_loss: 0.5537
Epoch 37/100
50/50 [=====] - 5s 96ms/step - loss: 0.4864 - val_loss: 0.4096
Epoch 38/100
50/50 [=====] - 5s 95ms/step - loss: 0.3862 - val_loss: 0.3742
Epoch 39/100
50/50 [=====] - 5s 98ms/step - loss: 0.3657 - val_loss: 0.3788
Epoch 40/100
50/50 [=====] - 5s 95ms/step - loss: 0.3595 - val_loss: 0.3719
Epoch 41/100
50/50 [=====] - 5s 96ms/step - loss: 0.3568 - val_loss: 0.3572
Epoch 42/100
50/50 [=====] - 5s 96ms/step - loss: 0.3535 - val_loss: 0.3746
Epoch 43/100
50/50 [=====] - 5s 96ms/step - loss: 0.4429 - val_loss: 0.3897
Epoch 44/100
50/50 [=====] - 5s 94ms/step - loss: 0.3644 - val_loss: 0.3633
Epoch 45/100
50/50 [=====] - 5s 97ms/step - loss: 0.3537 - val_loss: 0.3657

Epoch 46/100
50/50 [=====] - 5s 97ms/step - loss: 0.3537 - val_loss: 0.3569
Epoch 47/100
50/50 [=====] - 5s 95ms/step - loss: 0.3481 - val_loss: 0.3528
Epoch 48/100
50/50 [=====] - 5s 97ms/step - loss: 0.3443 - val_loss: 0.3475
Epoch 49/100
50/50 [=====] - 5s 95ms/step - loss: 0.3410 - val_loss: 0.3357
Epoch 50/100
50/50 [=====] - 5s 95ms/step - loss: 0.3459 - val_loss: 0.3383
Epoch 51/100
50/50 [=====] - 5s 96ms/step - loss: 0.3353 - val_loss: 0.3377
Epoch 52/100
50/50 [=====] - 5s 100ms/step - loss: 0.6249 - val_loss: 0.6033
Epoch 53/100
50/50 [=====] - 5s 95ms/step - loss: 0.5557 - val_loss: 0.4710
Epoch 54/100
50/50 [=====] - 5s 99ms/step - loss: 0.4057 - val_loss: 0.3625
Epoch 55/100
50/50 [=====] - 5s 98ms/step - loss: 0.3575 - val_loss: 0.3447
Epoch 56/100
50/50 [=====] - 5s 97ms/step - loss: 0.3451 - val_loss: 0.3492
Epoch 57/100
50/50 [=====] - 5s 95ms/step - loss: 0.3385 - val_loss: 0.3384
Epoch 58/100
50/50 [=====] - 5s 101ms/step - loss: 0.3432 - val_loss: 0.6132
Epoch 59/100
50/50 [=====] - 5s 96ms/step - loss: 0.4640 - val_loss: 0.4072
Epoch 60/100
50/50 [=====] - 5s 97ms/step - loss: 0.3493 - val_loss: 0.3499
Epoch 61/100
50/50 [=====] - 5s 101ms/step - loss: 0.3321 - val_loss: 0.3532
Epoch 62/100
50/50 [=====] - 5s 97ms/step - loss: 0.3282 - val_loss: 0.3643
Epoch 63/100
50/50 [=====] - 5s 98ms/step - loss: 0.3237 - val_loss: 0.3411
Epoch 64/100
50/50 [=====] - 5s 97ms/step - loss: 0.3505 - val_loss: 0.3655
Epoch 65/100
50/50 [=====] - 5s 94ms/step - loss: 0.3251 - val_loss: 0.3505
Epoch 66/100
50/50 [=====] - 5s 96ms/step - loss: 0.3192 - val_loss: 0.3437
Epoch 67/100
50/50 [=====] - 5s 95ms/step - loss: 0.3176 - val_loss: 0.3394
Epoch 68/100
50/50 [=====] - 5s 97ms/step - loss: 0.3151 - val_loss: 0.3436
Epoch 69/100
50/50 [=====] - 5s 97ms/step - loss: 0.3127 - val_loss: 0.3370

Epoch 70/100
50/50 [=====] - 5s 97ms/step - loss: 0.3123 - val_loss: 0.3404
Epoch 71/100
50/50 [=====] - 5s 96ms/step - loss: 0.3107 - val_loss: 0.3479
Epoch 72/100
50/50 [=====] - 5s 95ms/step - loss: 0.3091 - val_loss: 0.3347
Epoch 73/100
50/50 [=====] - 5s 97ms/step - loss: 0.3074 - val_loss: 0.3495
Epoch 74/100
50/50 [=====] - 5s 96ms/step - loss: 0.3080 - val_loss: 0.3389
Epoch 75/100
50/50 [=====] - 5s 98ms/step - loss: 0.3057 - val_loss: 0.3616
Epoch 76/100
50/50 [=====] - 5s 97ms/step - loss: 0.3052 - val_loss: 0.3521
Epoch 77/100
50/50 [=====] - 5s 98ms/step - loss: 0.3053 - val_loss: 0.3612
Epoch 78/100
50/50 [=====] - 5s 97ms/step - loss: 0.3035 - val_loss: 0.3436
Epoch 79/100
50/50 [=====] - 5s 100ms/step - loss: 0.3028 - val_loss: 0.3368
Epoch 80/100
50/50 [=====] - 5s 95ms/step - loss: 0.3034 - val_loss: 0.3598
Epoch 81/100
50/50 [=====] - 5s 97ms/step - loss: 0.2998 - val_loss: 0.3734
Epoch 82/100
50/50 [=====] - 5s 95ms/step - loss: 0.3406 - val_loss: 0.4444
Epoch 83/100
50/50 [=====] - 5s 97ms/step - loss: 0.3367 - val_loss: 0.3710
Epoch 84/100
50/50 [=====] - 5s 95ms/step - loss: 0.3048 - val_loss: 0.3710
Epoch 85/100
50/50 [=====] - 5s 95ms/step - loss: 0.3009 - val_loss: 0.3584
Epoch 86/100
50/50 [=====] - 6s 130ms/step - loss: 0.2994 - val_loss: 0.3633
Epoch 87/100
50/50 [=====] - 5s 109ms/step - loss: 0.2991 - val_loss: 0.3485
Epoch 88/100
50/50 [=====] - 5s 95ms/step - loss: 0.2980 - val_loss: 0.3599
Epoch 89/100
50/50 [=====] - 5s 95ms/step - loss: 0.2972 - val_loss: 0.3482
Epoch 90/100
50/50 [=====] - 5s 94ms/step - loss: 0.2977 - val_loss: 0.3452
Epoch 91/100
50/50 [=====] - 5s 94ms/step - loss: 0.2954 - val_loss: 0.3590
Epoch 92/100
50/50 [=====] - 5s 94ms/step - loss: 0.2956 - val_loss: 0.3553
Epoch 93/100
50/50 [=====] - 5s 95ms/step - loss: 0.2954 - val_loss: 0.3528

Epoch 94/100

50/50 [=====] - 5s 99ms/step - loss: 0.3198 - val_loss: 0.3635

Epoch 95/100

50/50 [=====] - 5s 98ms/step - loss: 0.2959 - val_loss: 0.3580

Epoch 96/100

50/50 [=====] - 5s 96ms/step - loss: 0.2940 - val_loss: 0.3611

Epoch 97/100

50/50 [=====] - 5s 93ms/step - loss: 0.2934 - val_loss: 0.3653

Epoch 98/100

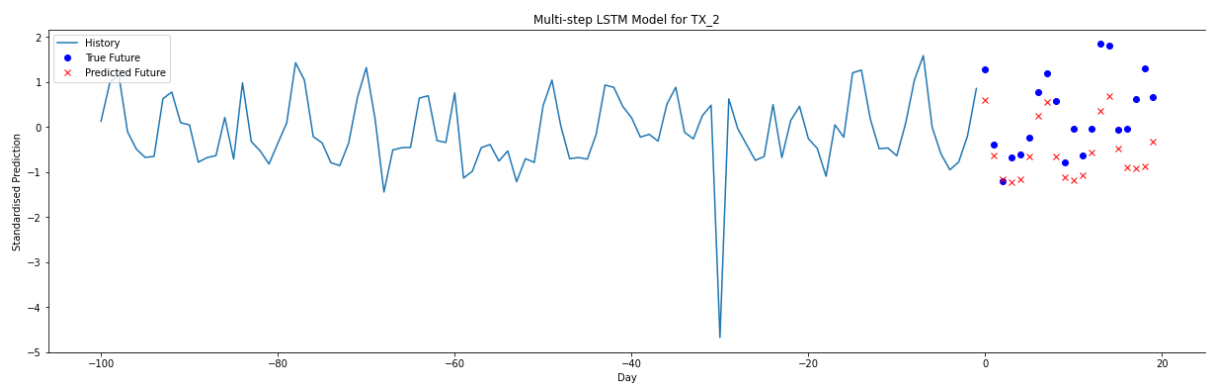
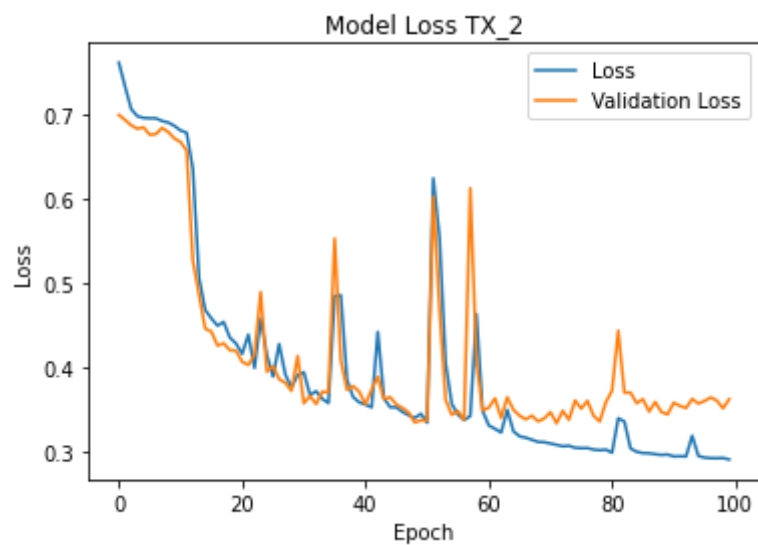
50/50 [=====] - 5s 96ms/step - loss: 0.2932 - val_loss: 0.3617

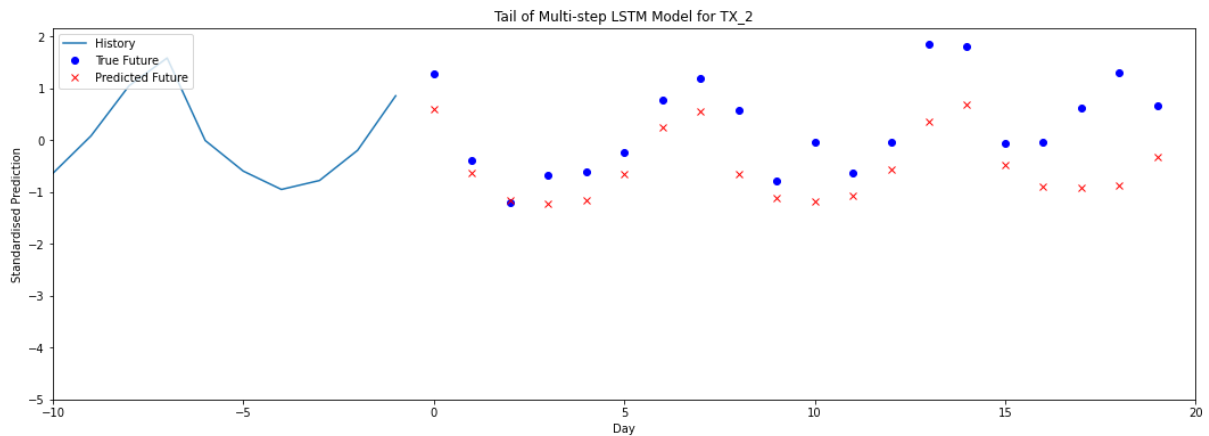
Epoch 99/100

50/50 [=====] - 5s 95ms/step - loss: 0.2935 - val_loss: 0.3525

Epoch 100/100

50/50 [=====] - 5s 96ms/step - loss: 0.2918 - val_loss: 0.3632





TX_2 - True Future: [4794. 3441. 2798. 3216. 3264. 3562. 4384. 4712. 4225. 3121. 3722. 3245. 3737. 5240. 5210. 3714. 3737. 4259. 4799. 4295.]

TX_2 - Model Prediction: [4246.1313 3255.8845 2834.7283 2768.2336 2822.896 3230.2786 3951.923

4212.971 3231.5278 2863.2341 2815.6084 2900.2 3305.8699 4041.4219

4319.2134 3377.2498 3034.3113 3023.9575 3063.6572 3499.8018]

TX_2 - Model Percentage Error: [11.42821553 5.37970004 1.3126616 13.92308325

13.51421581 9.31278595

9.8557688 10.59059441 23.51413415 8.25907943 24.35227301 10.62557932

11.53679762 22.87362834 17.09763188 9.06705019 18.80355153 28.99841466

36.16050789 18.51451088]%

TX_2 - Model Mean Percentage Error: 15.256009214748094%

=====
=====

Training Model for TX_3...

Epoch 1/100

50/50 [=====] - 5s 103ms/step - loss: 0.7561 - val_loss: 1.0719

Epoch 2/100

50/50 [=====] - 5s 94ms/step - loss: 0.7224 - val_loss: 0.9353

Epoch 3/100

50/50 [=====] - 5s 95ms/step - loss: 0.6605 - val_loss: 0.6892

Epoch 4/100

50/50 [=====] - 5s 94ms/step - loss: 0.6396 - val_loss: 0.6400

Epoch 5/100

50/50 [=====] - 5s 95ms/step - loss: 0.6359 - val_loss: 0.6354

Epoch 6/100

50/50 [=====] - 5s 94ms/step - loss: 0.6327 - val_loss: 0.6514

Epoch 7/100

50/50 [=====] - 5s 95ms/step - loss: 0.6705 - val_loss: 0.8408

Epoch 8/100

50/50 [=====] - 5s 95ms/step - loss: 0.6490 - val_loss: 0.7308

Epoch 9/100

50/50 [=====] - 5s 93ms/step - loss: 0.6392 - val_loss: 0.6650

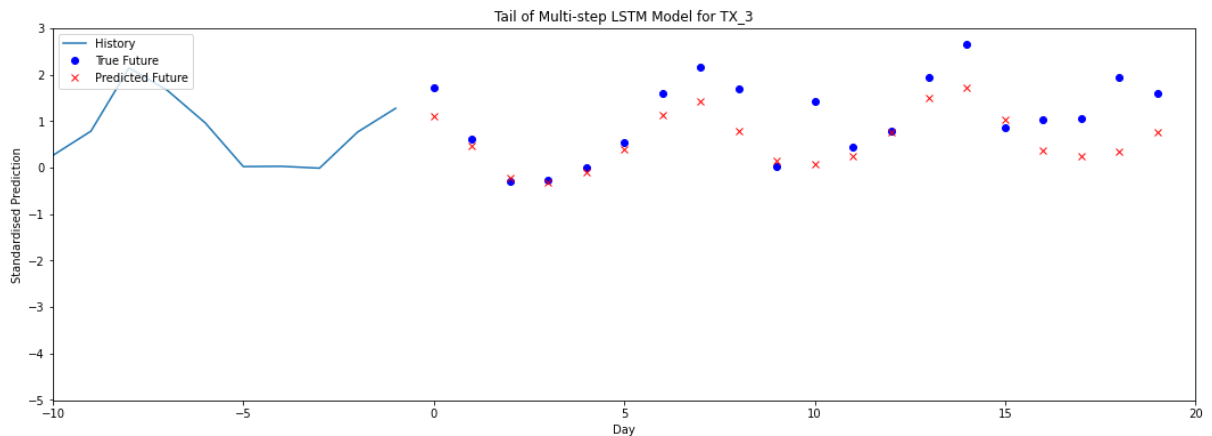
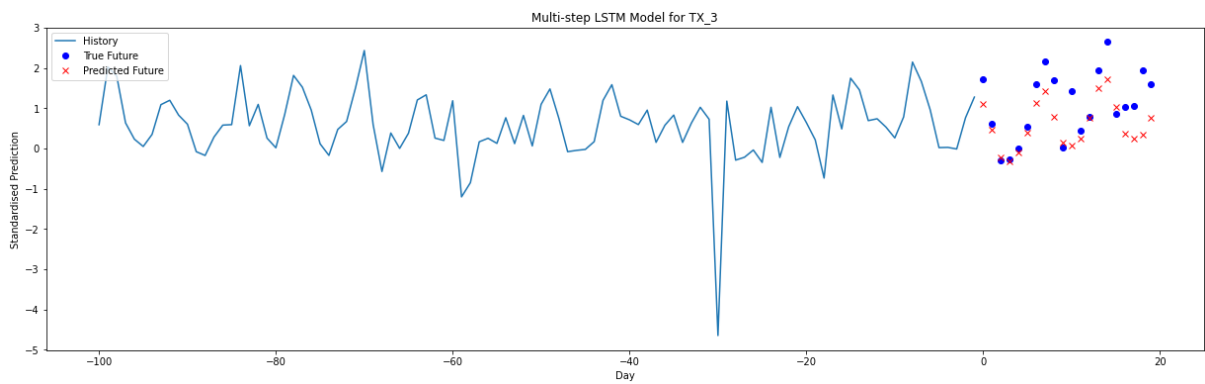
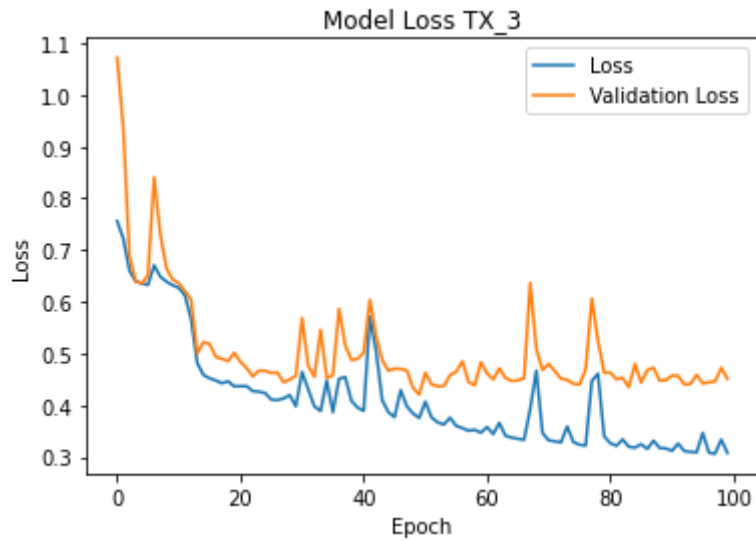
Epoch 10/100

50/50 [=====] - 5s 94ms/step - loss: 0.6321 - val_loss: 0.6432
Epoch 11/100
50/50 [=====] - 5s 94ms/step - loss: 0.6272 - val_loss: 0.6362
Epoch 12/100
50/50 [=====] - 5s 95ms/step - loss: 0.6125 - val_loss: 0.6209
Epoch 13/100
50/50 [=====] - 5s 94ms/step - loss: 0.5666 - val_loss: 0.6039
Epoch 14/100
50/50 [=====] - 5s 94ms/step - loss: 0.4818 - val_loss: 0.5004
Epoch 15/100
50/50 [=====] - 5s 98ms/step - loss: 0.4588 - val_loss: 0.5221
Epoch 16/100
50/50 [=====] - 5s 97ms/step - loss: 0.4524 - val_loss: 0.5188
Epoch 17/100
50/50 [=====] - 5s 98ms/step - loss: 0.4480 - val_loss: 0.4939
Epoch 18/100
50/50 [=====] - 5s 96ms/step - loss: 0.4428 - val_loss: 0.4901
Epoch 19/100
50/50 [=====] - 5s 94ms/step - loss: 0.4465 - val_loss: 0.4855
Epoch 20/100
50/50 [=====] - 5s 94ms/step - loss: 0.4367 - val_loss: 0.5015
Epoch 21/100
50/50 [=====] - 5s 98ms/step - loss: 0.4371 - val_loss: 0.4843
Epoch 22/100
50/50 [=====] - 5s 95ms/step - loss: 0.4371 - val_loss: 0.4723
Epoch 23/100
50/50 [=====] - 5s 98ms/step - loss: 0.4276 - val_loss: 0.4561
Epoch 24/100
50/50 [=====] - 5s 97ms/step - loss: 0.4266 - val_loss: 0.4673
Epoch 25/100
50/50 [=====] - 5s 96ms/step - loss: 0.4238 - val_loss: 0.4667
Epoch 26/100
50/50 [=====] - 5s 95ms/step - loss: 0.4113 - val_loss: 0.4626
Epoch 27/100
50/50 [=====] - 5s 96ms/step - loss: 0.4101 - val_loss: 0.4637
Epoch 28/100
50/50 [=====] - 5s 94ms/step - loss: 0.4135 - val_loss: 0.4446
Epoch 29/100
50/50 [=====] - 5s 98ms/step - loss: 0.4198 - val_loss: 0.4500
Epoch 30/100
50/50 [=====] - 5s 98ms/step - loss: 0.3983 - val_loss: 0.4576
Epoch 31/100
50/50 [=====] - 5s 95ms/step - loss: 0.4646 - val_loss: 0.5688
Epoch 32/100
50/50 [=====] - 5s 95ms/step - loss: 0.4311 - val_loss: 0.4763
Epoch 33/100
50/50 [=====] - 5s 95ms/step - loss: 0.3981 - val_loss: 0.4552
Epoch 34/100

50/50 [=====] - 5s 95ms/step - loss: 0.3892 - val_loss: 0.5460
Epoch 35/100
50/50 [=====] - 5s 96ms/step - loss: 0.4474 - val_loss: 0.4528
Epoch 36/100
50/50 [=====] - 5s 95ms/step - loss: 0.3869 - val_loss: 0.4583
Epoch 37/100
50/50 [=====] - 5s 95ms/step - loss: 0.4514 - val_loss: 0.5867
Epoch 38/100
50/50 [=====] - 5s 95ms/step - loss: 0.4547 - val_loss: 0.5161
Epoch 39/100
50/50 [=====] - 5s 99ms/step - loss: 0.4091 - val_loss: 0.4879
Epoch 40/100
50/50 [=====] - 5s 97ms/step - loss: 0.3959 - val_loss: 0.4897
Epoch 41/100
50/50 [=====] - 5s 97ms/step - loss: 0.3893 - val_loss: 0.5020
Epoch 42/100
50/50 [=====] - 5s 101ms/step - loss: 0.5711 - val_loss: 0.6043
Epoch 43/100
50/50 [=====] - 5s 97ms/step - loss: 0.5056 - val_loss: 0.5340
Epoch 44/100
50/50 [=====] - 5s 96ms/step - loss: 0.4103 - val_loss: 0.4874
Epoch 45/100
50/50 [=====] - 5s 94ms/step - loss: 0.3869 - val_loss: 0.4670
Epoch 46/100
50/50 [=====] - 5s 94ms/step - loss: 0.3773 - val_loss: 0.4707
Epoch 47/100
50/50 [=====] - 5s 99ms/step - loss: 0.4296 - val_loss: 0.4705
Epoch 48/100
50/50 [=====] - 5s 94ms/step - loss: 0.3981 - val_loss: 0.4673
Epoch 49/100
50/50 [=====] - 5s 96ms/step - loss: 0.3842 - val_loss: 0.4338
Epoch 50/100
50/50 [=====] - 5s 96ms/step - loss: 0.3757 - val_loss: 0.4208
Epoch 51/100
50/50 [=====] - 5s 96ms/step - loss: 0.4071 - val_loss: 0.4629
Epoch 52/100
50/50 [=====] - 5s 96ms/step - loss: 0.3766 - val_loss: 0.4405
Epoch 53/100
50/50 [=====] - 5s 100ms/step - loss: 0.3672 - val_loss: 0.4372
Epoch 54/100
50/50 [=====] - 5s 99ms/step - loss: 0.3630 - val_loss: 0.4371
Epoch 55/100
50/50 [=====] - 5s 99ms/step - loss: 0.3762 - val_loss: 0.4585
Epoch 56/100
50/50 [=====] - 5s 95ms/step - loss: 0.3604 - val_loss: 0.4651
Epoch 57/100
50/50 [=====] - 5s 95ms/step - loss: 0.3562 - val_loss: 0.4851
Epoch 58/100

50/50 [=====] - 5s 95ms/step - loss: 0.3512 - val_loss: 0.4450
Epoch 59/100
50/50 [=====] - 5s 95ms/step - loss: 0.3526 - val_loss: 0.4389
Epoch 60/100
50/50 [=====] - 5s 98ms/step - loss: 0.3472 - val_loss: 0.4833
Epoch 61/100
50/50 [=====] - 5s 96ms/step - loss: 0.3582 - val_loss: 0.4621
Epoch 62/100
50/50 [=====] - 5s 95ms/step - loss: 0.3445 - val_loss: 0.4501
Epoch 63/100
50/50 [=====] - 5s 95ms/step - loss: 0.3662 - val_loss: 0.4715
Epoch 64/100
50/50 [=====] - 5s 98ms/step - loss: 0.3411 - val_loss: 0.4529
Epoch 65/100
50/50 [=====] - 5s 96ms/step - loss: 0.3378 - val_loss: 0.4474
Epoch 66/100
50/50 [=====] - 5s 94ms/step - loss: 0.3355 - val_loss: 0.4484
Epoch 67/100
50/50 [=====] - 5s 96ms/step - loss: 0.3335 - val_loss: 0.4523
Epoch 68/100
50/50 [=====] - 5s 96ms/step - loss: 0.3927 - val_loss: 0.6365
Epoch 69/100
50/50 [=====] - 5s 98ms/step - loss: 0.4672 - val_loss: 0.5085
Epoch 70/100
50/50 [=====] - 5s 96ms/step - loss: 0.3464 - val_loss: 0.4683
Epoch 71/100
50/50 [=====] - 5s 98ms/step - loss: 0.3325 - val_loss: 0.4801
Epoch 72/100
50/50 [=====] - 5s 97ms/step - loss: 0.3305 - val_loss: 0.4661
Epoch 73/100
50/50 [=====] - 5s 96ms/step - loss: 0.3286 - val_loss: 0.4517
Epoch 74/100
50/50 [=====] - 5s 100ms/step - loss: 0.3592 - val_loss: 0.4493
Epoch 75/100
50/50 [=====] - 5s 94ms/step - loss: 0.3291 - val_loss: 0.4418
Epoch 76/100
50/50 [=====] - 5s 95ms/step - loss: 0.3240 - val_loss: 0.4406
Epoch 77/100
50/50 [=====] - 5s 96ms/step - loss: 0.3225 - val_loss: 0.4694
Epoch 78/100
50/50 [=====] - 5s 99ms/step - loss: 0.4474 - val_loss: 0.6061
Epoch 79/100
50/50 [=====] - 5s 99ms/step - loss: 0.4611 - val_loss: 0.5248
Epoch 80/100
50/50 [=====] - 5s 96ms/step - loss: 0.3403 - val_loss: 0.4630
Epoch 81/100
50/50 [=====] - 5s 95ms/step - loss: 0.3270 - val_loss: 0.4633
Epoch 82/100

50/50 [=====] - 5s 96ms/step - loss: 0.3220 - val_loss: 0.4505
Epoch 83/100
50/50 [=====] - 5s 95ms/step - loss: 0.3341 - val_loss: 0.4530
Epoch 84/100
50/50 [=====] - 5s 97ms/step - loss: 0.3202 - val_loss: 0.4352
Epoch 85/100
50/50 [=====] - 5s 94ms/step - loss: 0.3183 - val_loss: 0.4800
Epoch 86/100
50/50 [=====] - 5s 97ms/step - loss: 0.3251 - val_loss: 0.4444
Epoch 87/100
50/50 [=====] - 5s 98ms/step - loss: 0.3158 - val_loss: 0.4681
Epoch 88/100
50/50 [=====] - 5s 96ms/step - loss: 0.3318 - val_loss: 0.4727
Epoch 89/100
50/50 [=====] - 5s 103ms/step - loss: 0.3176 - val_loss: 0.4479
Epoch 90/100
50/50 [=====] - 5s 96ms/step - loss: 0.3168 - val_loss: 0.4485
Epoch 91/100
50/50 [=====] - 5s 95ms/step - loss: 0.3122 - val_loss: 0.4574
Epoch 92/100
50/50 [=====] - 5s 100ms/step - loss: 0.3261 - val_loss: 0.4573
Epoch 93/100
50/50 [=====] - 5s 94ms/step - loss: 0.3117 - val_loss: 0.4404
Epoch 94/100
50/50 [=====] - 5s 97ms/step - loss: 0.3102 - val_loss: 0.4414
Epoch 95/100
50/50 [=====] - 5s 97ms/step - loss: 0.3093 - val_loss: 0.4590
Epoch 96/100
50/50 [=====] - 5s 96ms/step - loss: 0.3468 - val_loss: 0.4422
Epoch 97/100
50/50 [=====] - 5s 97ms/step - loss: 0.3084 - val_loss: 0.4447
Epoch 98/100
50/50 [=====] - 5s 101ms/step - loss: 0.3067 - val_loss: 0.4461
Epoch 99/100
50/50 [=====] - 5s 97ms/step - loss: 0.3340 - val_loss: 0.4727
Epoch 100/100
50/50 [=====] - 5s 97ms/step - loss: 0.3080 - val_loss: 0.4510



TX_3 - True Future: [4286. 3538. 2934. 2939. 3135. 3486. 4202. 4575. 4262. 3141. 4091. 3421. 3664. 4432. 4905. 3707. 3825. 3831. 4438. 4198.]

TX_3 - Model Prediction: [3879.3096 3447.9587 2983.9683 2906.2744 3060.5256 3393.7666 3887.4495

4088.5234 3657.7769 3232.1135 3176.8196 3298.9463 3645.7676 4143.769

4291.004 3824.03 3381.1885 3286.0889 3362.9768 3643.2493]

TX_3 - Model Percentage Error: [9.48881077 2.54497625 1.7030764 1.11349391 2.37557784 2.64582325

7.48573387 10.63336749 14.17698603 2.90078081 22.34613591 3.56777875

0.49760977 6.50340607 12.5177593 3.15700106 11.60291565 14.22373095

24.22314541 13.21464346]%

TX_3 - Model Mean Percentage Error: 8.34613764704482%

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Training Model for WI_1...

Epoch 1/100

50/50 [=====] - 5s 110ms/step - loss: 0.6814 - val_loss: 0.8584

Epoch 2/100

50/50 [=====] - 5s 95ms/step - loss: 0.5004 - val_loss: 0.8166

Epoch 3/100

50/50 [=====] - 5s 98ms/step - loss: 0.4988 - val_loss: 0.8167

Epoch 4/100

50/50 [=====] - 5s 99ms/step - loss: 0.4956 - val_loss: 0.8194

Epoch 5/100

50/50 [=====] - 5s 94ms/step - loss: 0.4965 - val_loss: 0.8174

Epoch 6/100

50/50 [=====] - 5s 97ms/step - loss: 0.4954 - val_loss: 0.8170

Epoch 7/100

50/50 [=====] - 5s 97ms/step - loss: 0.4916 - val_loss: 0.8108

Epoch 8/100

50/50 [=====] - 7s 140ms/step - loss: 0.4870 - val_loss: 0.7900

Epoch 9/100

50/50 [=====] - 5s 108ms/step - loss: 0.4611 - val_loss: 0.6735

Epoch 10/100

50/50 [=====] - 5s 95ms/step - loss: 0.3959 - val_loss: 0.5686

Epoch 11/100

50/50 [=====] - 5s 98ms/step - loss: 0.3448 - val_loss: 0.5360

Epoch 12/100

50/50 [=====] - 5s 97ms/step - loss: 0.3376 - val_loss: 0.5308

Epoch 13/100

50/50 [=====] - 5s 97ms/step - loss: 0.3336 - val_loss: 0.5128

Epoch 14/100

50/50 [=====] - 5s 100ms/step - loss: 0.3246 - val_loss: 0.5197

Epoch 15/100

50/50 [=====] - 5s 97ms/step - loss: 0.3180 - val_loss: 0.4936

Epoch 16/100

50/50 [=====] - 5s 96ms/step - loss: 0.3107 - val_loss: 0.4580

Epoch 17/100

50/50 [=====] - 5s 95ms/step - loss: 0.3022 - val_loss: 0.4735

Epoch 18/100

50/50 [=====] - 5s 95ms/step - loss: 0.2886 - val_loss: 0.4424

Epoch 19/100

50/50 [=====] - 5s 98ms/step - loss: 0.2840 - val_loss: 0.4230

Epoch 20/100

50/50 [=====] - 5s 97ms/step - loss: 0.4073 - val_loss: 0.6160

Epoch 21/100

50/50 [=====] - 5s 100ms/step - loss: 0.2974 - val_loss: 0.4588

Epoch 22/100
50/50 [=====] - 5s 99ms/step - loss: 0.2710 - val_loss: 0.4500
Epoch 23/100
50/50 [=====] - 5s 98ms/step - loss: 0.2692 - val_loss: 0.4360
Epoch 24/100
50/50 [=====] - 5s 98ms/step - loss: 0.2675 - val_loss: 0.4400
Epoch 25/100
50/50 [=====] - 5s 101ms/step - loss: 0.2983 - val_loss: 0.7121
Epoch 26/100
50/50 [=====] - 5s 98ms/step - loss: 0.3171 - val_loss: 0.4334
Epoch 27/100
50/50 [=====] - 5s 95ms/step - loss: 0.2644 - val_loss: 0.4446
Epoch 28/100
50/50 [=====] - 5s 98ms/step - loss: 0.2599 - val_loss: 0.4281
Epoch 29/100
50/50 [=====] - 5s 97ms/step - loss: 0.2598 - val_loss: 0.4577
Epoch 30/100
50/50 [=====] - 5s 97ms/step - loss: 0.2600 - val_loss: 0.4438
Epoch 31/100
50/50 [=====] - 5s 98ms/step - loss: 0.2570 - val_loss: 0.4299
Epoch 32/100
50/50 [=====] - 5s 101ms/step - loss: 0.2581 - val_loss: 0.4276
Epoch 33/100
50/50 [=====] - 5s 100ms/step - loss: 0.2656 - val_loss: 0.4102
Epoch 34/100
50/50 [=====] - 5s 97ms/step - loss: 0.2567 - val_loss: 0.4087
Epoch 35/100
50/50 [=====] - 5s 95ms/step - loss: 0.2517 - val_loss: 0.4177
Epoch 36/100
50/50 [=====] - 5s 98ms/step - loss: 0.3271 - val_loss: 0.4422
Epoch 37/100
50/50 [=====] - 5s 96ms/step - loss: 0.2627 - val_loss: 0.4209
Epoch 38/100
50/50 [=====] - 5s 98ms/step - loss: 0.2581 - val_loss: 0.4033
Epoch 39/100
50/50 [=====] - 5s 101ms/step - loss: 0.2513 - val_loss: 0.3991
Epoch 40/100
50/50 [=====] - 5s 95ms/step - loss: 0.2501 - val_loss: 0.4001
Epoch 41/100
50/50 [=====] - 5s 97ms/step - loss: 0.2575 - val_loss: 0.8325
Epoch 42/100
50/50 [=====] - 5s 97ms/step - loss: 0.3192 - val_loss: 0.4174
Epoch 43/100
50/50 [=====] - 5s 97ms/step - loss: 0.2579 - val_loss: 0.4244
Epoch 44/100
50/50 [=====] - 5s 95ms/step - loss: 0.2516 - val_loss: 0.4037
Epoch 45/100
50/50 [=====] - 5s 99ms/step - loss: 0.2469 - val_loss: 0.3918

Epoch 46/100
50/50 [=====] - 5s 103ms/step - loss: 0.3715 - val_loss: 0.7853
Epoch 47/100
50/50 [=====] - 5s 97ms/step - loss: 0.4192 - val_loss: 0.5893
Epoch 48/100
50/50 [=====] - 5s 100ms/step - loss: 0.2933 - val_loss: 0.4508
Epoch 49/100
50/50 [=====] - 5s 101ms/step - loss: 0.2624 - val_loss: 0.4230
Epoch 50/100
50/50 [=====] - 5s 97ms/step - loss: 0.2564 - val_loss: 0.4179
Epoch 51/100
50/50 [=====] - 5s 96ms/step - loss: 0.2514 - val_loss: 0.4052
Epoch 52/100
50/50 [=====] - 5s 95ms/step - loss: 0.2506 - val_loss: 0.4029
Epoch 53/100
50/50 [=====] - 5s 98ms/step - loss: 0.2503 - val_loss: 0.4074
Epoch 54/100
50/50 [=====] - 5s 98ms/step - loss: 0.2488 - val_loss: 0.4140
Epoch 55/100
50/50 [=====] - 5s 99ms/step - loss: 0.2628 - val_loss: 0.6838
Epoch 56/100
50/50 [=====] - 5s 100ms/step - loss: 0.3003 - val_loss: 0.4089
Epoch 57/100
50/50 [=====] - 5s 99ms/step - loss: 0.2536 - val_loss: 0.3900
Epoch 58/100
50/50 [=====] - 5s 97ms/step - loss: 0.2492 - val_loss: 0.3908
Epoch 59/100
50/50 [=====] - 5s 97ms/step - loss: 0.2462 - val_loss: 0.3712
Epoch 60/100
50/50 [=====] - 5s 100ms/step - loss: 0.2447 - val_loss: 0.3900
Epoch 61/100
50/50 [=====] - 5s 97ms/step - loss: 0.2438 - val_loss: 0.3591
Epoch 62/100
50/50 [=====] - 5s 99ms/step - loss: 0.2415 - val_loss: 0.3702
Epoch 63/100
50/50 [=====] - 5s 99ms/step - loss: 0.2467 - val_loss: 0.3668
Epoch 64/100
50/50 [=====] - 5s 100ms/step - loss: 0.2416 - val_loss: 0.3724
Epoch 65/100
50/50 [=====] - 5s 99ms/step - loss: 0.2414 - val_loss: 0.3597
Epoch 66/100
50/50 [=====] - 5s 101ms/step - loss: 0.2547 - val_loss: 0.3620
Epoch 67/100
50/50 [=====] - 5s 99ms/step - loss: 0.2468 - val_loss: 0.3778
Epoch 68/100
50/50 [=====] - 5s 97ms/step - loss: 0.2422 - val_loss: 0.3669
Epoch 69/100
50/50 [=====] - 5s 101ms/step - loss: 0.2403 - val_loss: 0.3570

Epoch 70/100
50/50 [=====] - 5s 99ms/step - loss: 0.2400 - val_loss: 0.3676
Epoch 71/100
50/50 [=====] - 5s 100ms/step - loss: 0.2407 - val_loss: 0.3691
Epoch 72/100
50/50 [=====] - 5s 102ms/step - loss: 0.2394 - val_loss: 0.3658
Epoch 73/100
50/50 [=====] - 5s 100ms/step - loss: 0.2514 - val_loss: 0.6987
Epoch 74/100
50/50 [=====] - 5s 99ms/step - loss: 0.3551 - val_loss: 0.4571
Epoch 75/100
50/50 [=====] - 5s 97ms/step - loss: 0.2557 - val_loss: 0.4305
Epoch 76/100
50/50 [=====] - 5s 99ms/step - loss: 0.2516 - val_loss: 0.4255
Epoch 77/100
50/50 [=====] - 5s 98ms/step - loss: 0.2483 - val_loss: 0.4166
Epoch 78/100
50/50 [=====] - 5s 99ms/step - loss: 0.2466 - val_loss: 0.4107
Epoch 79/100
50/50 [=====] - 5s 97ms/step - loss: 0.2445 - val_loss: 0.3937
Epoch 80/100
50/50 [=====] - 5s 97ms/step - loss: 0.2418 - val_loss: 0.3811
Epoch 81/100
50/50 [=====] - 5s 97ms/step - loss: 0.2397 - val_loss: 0.3803
Epoch 82/100
50/50 [=====] - 5s 98ms/step - loss: 0.2385 - val_loss: 0.3724
Epoch 83/100
50/50 [=====] - 5s 97ms/step - loss: 0.2396 - val_loss: 0.3661
Epoch 84/100
50/50 [=====] - 5s 101ms/step - loss: 0.2378 - val_loss: 0.3759
Epoch 85/100
50/50 [=====] - 5s 97ms/step - loss: 0.2368 - val_loss: 0.3743
Epoch 86/100
50/50 [=====] - 5s 103ms/step - loss: 0.2366 - val_loss: 0.4119
Epoch 87/100
50/50 [=====] - 5s 97ms/step - loss: 0.2355 - val_loss: 0.3686
Epoch 88/100
50/50 [=====] - 5s 104ms/step - loss: 0.2376 - val_loss: 0.4448
Epoch 89/100
50/50 [=====] - 5s 104ms/step - loss: 0.2351 - val_loss: 0.3572
Epoch 90/100
50/50 [=====] - 5s 100ms/step - loss: 0.2338 - val_loss: 0.3702
Epoch 91/100
50/50 [=====] - 5s 100ms/step - loss: 0.3015 - val_loss: 0.3678
Epoch 92/100
50/50 [=====] - 5s 101ms/step - loss: 0.2439 - val_loss: 0.3344
Epoch 93/100
50/50 [=====] - 5s 99ms/step - loss: 0.2349 - val_loss: 0.3394

Epoch 94/100

50/50 [=====] - 5s 98ms/step - loss: 0.2353 - val_loss: 0.3296

Epoch 95/100

50/50 [=====] - 5s 101ms/step - loss: 0.2336 - val_loss: 0.3484

Epoch 96/100

50/50 [=====] - 5s 103ms/step - loss: 0.2327 - val_loss: 0.3485

Epoch 97/100

50/50 [=====] - 5s 103ms/step - loss: 0.2322 - val_loss: 0.3692

Epoch 98/100

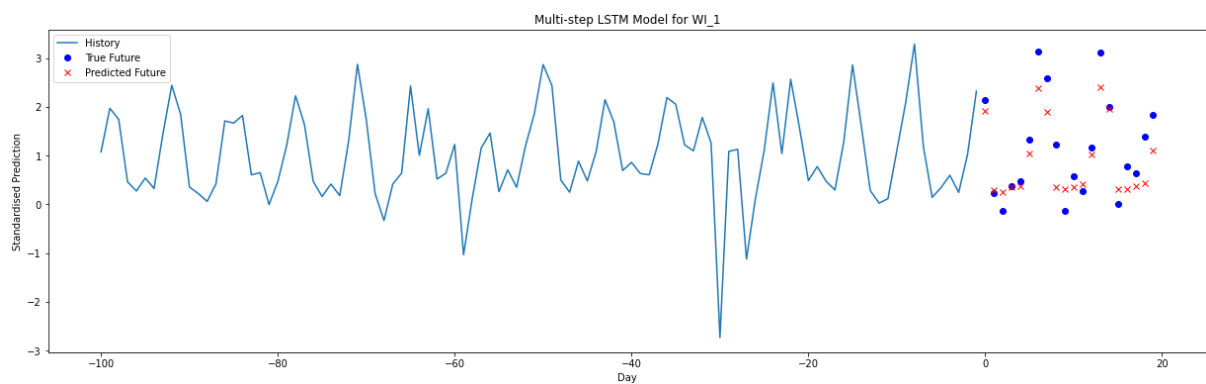
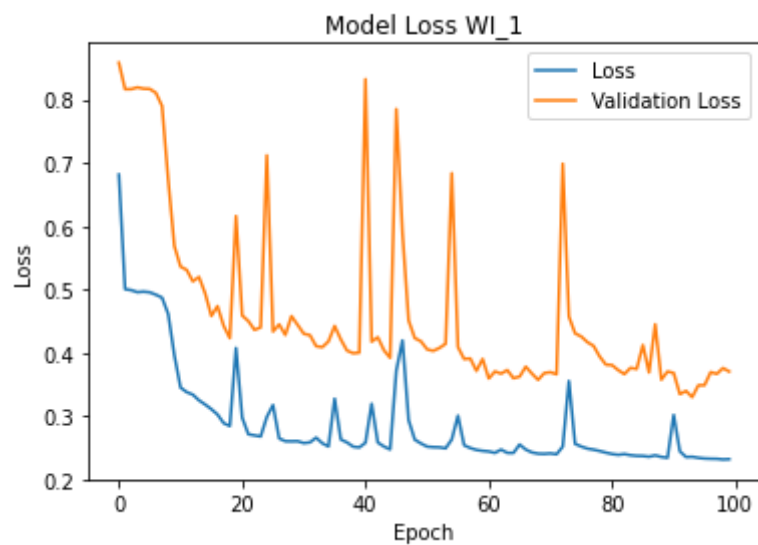
50/50 [=====] - 5s 99ms/step - loss: 0.2321 - val_loss: 0.3664

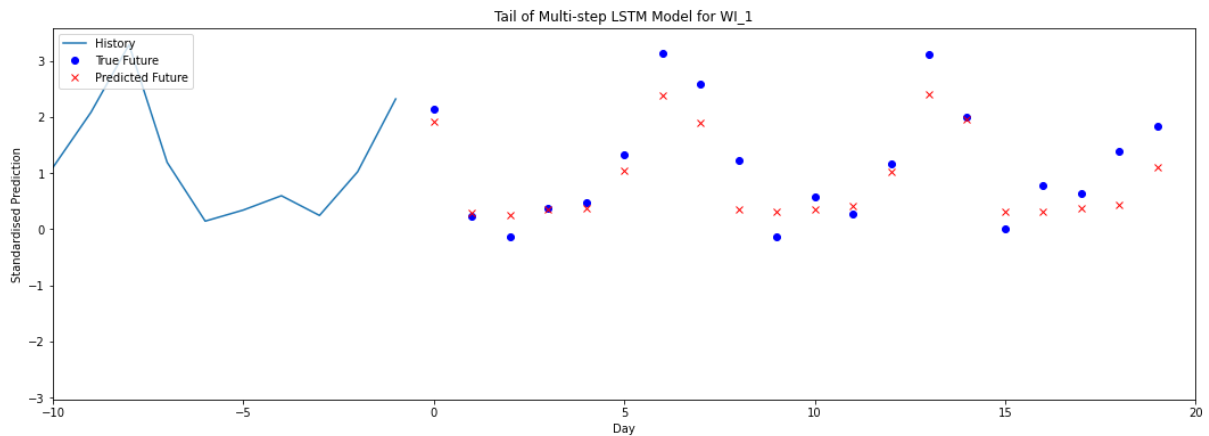
Epoch 99/100

50/50 [=====] - 5s 97ms/step - loss: 0.2311 - val_loss: 0.3755

Epoch 100/100

50/50 [=====] - 5s 97ms/step - loss: 0.2315 - val_loss: 0.3702





WI_1 - True Future: [4600. 2798. 2466. 2937. 3036. 3845. 5538. 5034. 3740. 2460. 3135. 2831. 3676. 5516. 4461. 2597. 3313. 3180. 3899. 4308.]

WI_1 - Model Prediction: [4396.6504 2868.403 2812.3567 2918.673 2943.6646 3576.0168 4843.642

4378.6787 2920.3574 2885.3801 2926.1619 2969.564 3549.086 4851.8735

4430.715 2885.6406 2874.1943 2937.247 2995.1758 3625.525]

WI_1 - Model Percentage Error: [4.42064368 2.51619286 14.04528343 0.62400083 3.04135208 6.99566071

12.53806266 13.01790403 21.91557696 17.29187508 6.6615035 4.89452366

3.45250442 12.04000118 0.67888716 11.11438679 13.2449642 7.63373993

23.18092379 15.84204034]%

WI_1 - Model Mean Percentage Error: 9.757501364729462%

=====
=====

Training Model for WI_2...

Epoch 1/100

50/50 [=====] - 5s 101ms/step - loss: 0.7802 - val_loss: 1.3193

Epoch 2/100

50/50 [=====] - 5s 94ms/step - loss: 0.5108 - val_loss: 0.9330

Epoch 3/100

50/50 [=====] - 5s 92ms/step - loss: 0.4202 - val_loss: 1.0066

Epoch 4/100

50/50 [=====] - 5s 94ms/step - loss: 0.3923 - val_loss: 0.9294

Epoch 5/100

50/50 [=====] - 5s 96ms/step - loss: 0.3856 - val_loss: 0.8599

Epoch 6/100

50/50 [=====] - 5s 95ms/step - loss: 0.3827 - val_loss: 0.8815

Epoch 7/100

50/50 [=====] - 5s 95ms/step - loss: 0.3802 - val_loss: 0.8531

Epoch 8/100

50/50 [=====] - 5s 95ms/step - loss: 0.3785 - val_loss: 0.8835

Epoch 9/100

50/50 [=====] - 5s 95ms/step - loss: 0.3774 - val_loss: 0.8447

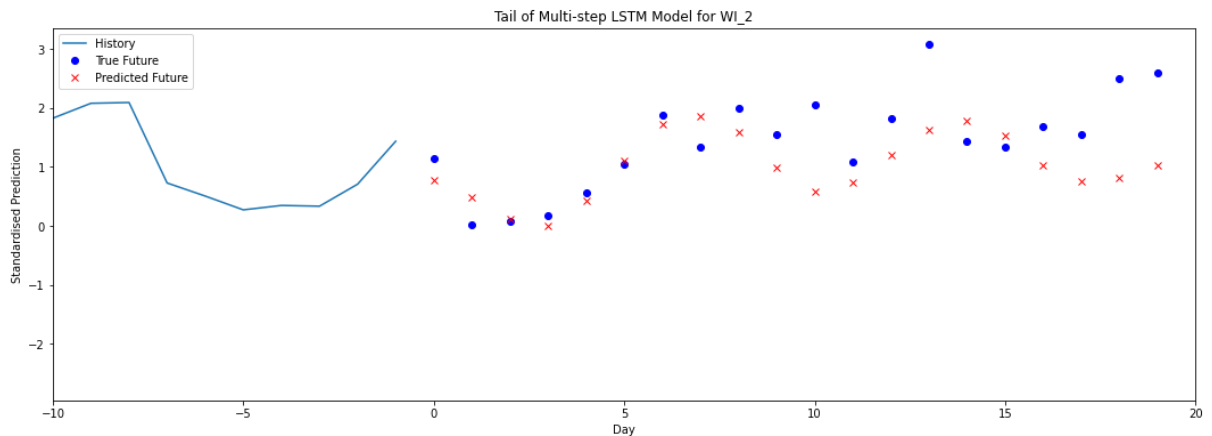
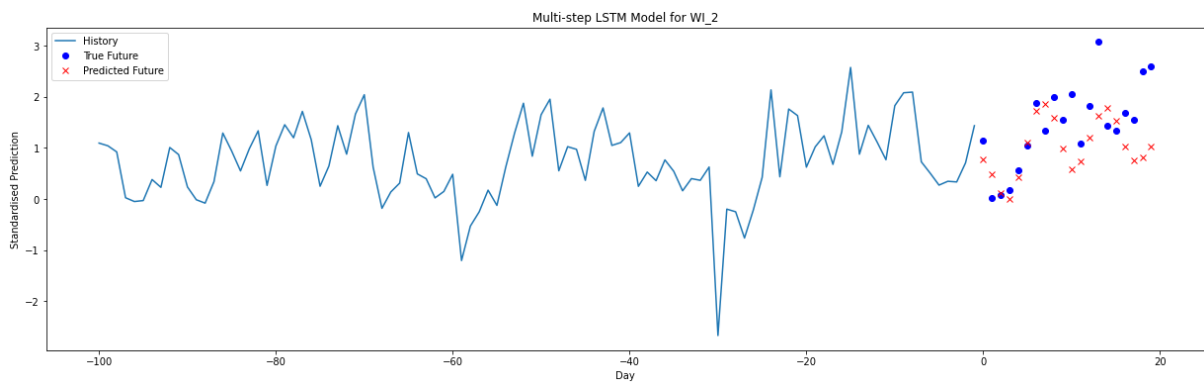
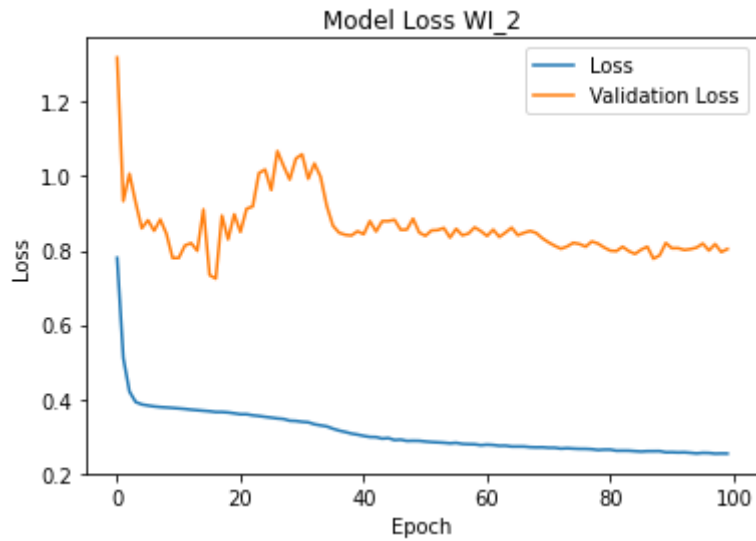
Epoch 10/100

50/50 [=====] - 5s 99ms/step - loss: 0.3762 - val_loss: 0.7799
Epoch 11/100
50/50 [=====] - 5s 95ms/step - loss: 0.3749 - val_loss: 0.7801
Epoch 12/100
50/50 [=====] - 5s 92ms/step - loss: 0.3735 - val_loss: 0.8136
Epoch 13/100
50/50 [=====] - 5s 93ms/step - loss: 0.3715 - val_loss: 0.8199
Epoch 14/100
50/50 [=====] - 5s 100ms/step - loss: 0.3701 - val_loss: 0.7994
Epoch 15/100
50/50 [=====] - 5s 95ms/step - loss: 0.3686 - val_loss: 0.9105
Epoch 16/100
50/50 [=====] - 5s 93ms/step - loss: 0.3672 - val_loss: 0.7339
Epoch 17/100
50/50 [=====] - 5s 97ms/step - loss: 0.3652 - val_loss: 0.7244
Epoch 18/100
50/50 [=====] - 5s 95ms/step - loss: 0.3652 - val_loss: 0.8940
Epoch 19/100
50/50 [=====] - 5s 99ms/step - loss: 0.3640 - val_loss: 0.8299
Epoch 20/100
50/50 [=====] - 5s 93ms/step - loss: 0.3617 - val_loss: 0.8975
Epoch 21/100
50/50 [=====] - 5s 96ms/step - loss: 0.3592 - val_loss: 0.8499
Epoch 22/100
50/50 [=====] - 5s 97ms/step - loss: 0.3592 - val_loss: 0.9124
Epoch 23/100
50/50 [=====] - 5s 94ms/step - loss: 0.3563 - val_loss: 0.9187
Epoch 24/100
50/50 [=====] - 5s 94ms/step - loss: 0.3545 - val_loss: 1.0083
Epoch 25/100
50/50 [=====] - 5s 95ms/step - loss: 0.3522 - val_loss: 1.0179
Epoch 26/100
50/50 [=====] - 5s 96ms/step - loss: 0.3501 - val_loss: 0.9629
Epoch 27/100
50/50 [=====] - 5s 97ms/step - loss: 0.3479 - val_loss: 1.0676
Epoch 28/100
50/50 [=====] - 5s 97ms/step - loss: 0.3465 - val_loss: 1.0276
Epoch 29/100
50/50 [=====] - 6s 127ms/step - loss: 0.3418 - val_loss: 0.9909
Epoch 30/100
50/50 [=====] - 6s 115ms/step - loss: 0.3410 - val_loss: 1.0476
Epoch 31/100
50/50 [=====] - 5s 97ms/step - loss: 0.3388 - val_loss: 1.0590
Epoch 32/100
50/50 [=====] - 5s 95ms/step - loss: 0.3376 - val_loss: 0.9931
Epoch 33/100
50/50 [=====] - 5s 98ms/step - loss: 0.3323 - val_loss: 1.0342
Epoch 34/100

50/50 [=====] - 5s 98ms/step - loss: 0.3293 - val_loss: 0.9986
Epoch 35/100
50/50 [=====] - 5s 97ms/step - loss: 0.3266 - val_loss: 0.9203
Epoch 36/100
50/50 [=====] - 5s 97ms/step - loss: 0.3203 - val_loss: 0.8671
Epoch 37/100
50/50 [=====] - 5s 97ms/step - loss: 0.3152 - val_loss: 0.8480
Epoch 38/100
50/50 [=====] - 5s 97ms/step - loss: 0.3115 - val_loss: 0.8422
Epoch 39/100
50/50 [=====] - 5s 97ms/step - loss: 0.3071 - val_loss: 0.8403
Epoch 40/100
50/50 [=====] - 5s 95ms/step - loss: 0.3044 - val_loss: 0.8519
Epoch 41/100
50/50 [=====] - 5s 93ms/step - loss: 0.3009 - val_loss: 0.8439
Epoch 42/100
50/50 [=====] - 5s 94ms/step - loss: 0.2980 - val_loss: 0.8792
Epoch 43/100
50/50 [=====] - 5s 96ms/step - loss: 0.2977 - val_loss: 0.8511
Epoch 44/100
50/50 [=====] - 5s 95ms/step - loss: 0.2937 - val_loss: 0.8791
Epoch 45/100
50/50 [=====] - 5s 95ms/step - loss: 0.2951 - val_loss: 0.8792
Epoch 46/100
50/50 [=====] - 5s 96ms/step - loss: 0.2897 - val_loss: 0.8825
Epoch 47/100
50/50 [=====] - 5s 96ms/step - loss: 0.2908 - val_loss: 0.8557
Epoch 48/100
50/50 [=====] - 5s 94ms/step - loss: 0.2874 - val_loss: 0.8563
Epoch 49/100
50/50 [=====] - 5s 93ms/step - loss: 0.2878 - val_loss: 0.8856
Epoch 50/100
50/50 [=====] - 5s 94ms/step - loss: 0.2876 - val_loss: 0.8484
Epoch 51/100
50/50 [=====] - 5s 94ms/step - loss: 0.2858 - val_loss: 0.8395
Epoch 52/100
50/50 [=====] - 5s 98ms/step - loss: 0.2844 - val_loss: 0.8540
Epoch 53/100
50/50 [=====] - 5s 94ms/step - loss: 0.2835 - val_loss: 0.8549
Epoch 54/100
50/50 [=====] - 5s 93ms/step - loss: 0.2826 - val_loss: 0.8607
Epoch 55/100
50/50 [=====] - 5s 94ms/step - loss: 0.2810 - val_loss: 0.8348
Epoch 56/100
50/50 [=====] - 5s 93ms/step - loss: 0.2822 - val_loss: 0.8584
Epoch 57/100
50/50 [=====] - 5s 93ms/step - loss: 0.2793 - val_loss: 0.8410
Epoch 58/100

50/50 [=====] - 5s 93ms/step - loss: 0.2787 - val_loss: 0.8457
Epoch 59/100
50/50 [=====] - 5s 95ms/step - loss: 0.2784 - val_loss: 0.8623
Epoch 60/100
50/50 [=====] - 5s 93ms/step - loss: 0.2759 - val_loss: 0.8522
Epoch 61/100
50/50 [=====] - 5s 94ms/step - loss: 0.2774 - val_loss: 0.8391
Epoch 62/100
50/50 [=====] - 5s 95ms/step - loss: 0.2765 - val_loss: 0.8562
Epoch 63/100
50/50 [=====] - 5s 94ms/step - loss: 0.2744 - val_loss: 0.8366
Epoch 64/100
50/50 [=====] - 5s 96ms/step - loss: 0.2746 - val_loss: 0.8483
Epoch 65/100
50/50 [=====] - 5s 101ms/step - loss: 0.2724 - val_loss: 0.8614
Epoch 66/100
50/50 [=====] - 5s 92ms/step - loss: 0.2724 - val_loss: 0.8412
Epoch 67/100
50/50 [=====] - 5s 92ms/step - loss: 0.2723 - val_loss: 0.8476
Epoch 68/100
50/50 [=====] - 5s 98ms/step - loss: 0.2706 - val_loss: 0.8527
Epoch 69/100
50/50 [=====] - 5s 94ms/step - loss: 0.2701 - val_loss: 0.8470
Epoch 70/100
50/50 [=====] - 5s 93ms/step - loss: 0.2703 - val_loss: 0.8327
Epoch 71/100
50/50 [=====] - 5s 96ms/step - loss: 0.2690 - val_loss: 0.8218
Epoch 72/100
50/50 [=====] - 5s 96ms/step - loss: 0.2690 - val_loss: 0.8126
Epoch 73/100
50/50 [=====] - 5s 94ms/step - loss: 0.2668 - val_loss: 0.8048
Epoch 74/100
50/50 [=====] - 5s 96ms/step - loss: 0.2679 - val_loss: 0.8109
Epoch 75/100
50/50 [=====] - 5s 94ms/step - loss: 0.2668 - val_loss: 0.8207
Epoch 76/100
50/50 [=====] - 5s 97ms/step - loss: 0.2660 - val_loss: 0.8175
Epoch 77/100
50/50 [=====] - 5s 93ms/step - loss: 0.2660 - val_loss: 0.8103
Epoch 78/100
50/50 [=====] - 5s 95ms/step - loss: 0.2652 - val_loss: 0.8243
Epoch 79/100
50/50 [=====] - 5s 94ms/step - loss: 0.2630 - val_loss: 0.8186
Epoch 80/100
50/50 [=====] - 5s 96ms/step - loss: 0.2639 - val_loss: 0.8082
Epoch 81/100
50/50 [=====] - 5s 96ms/step - loss: 0.2640 - val_loss: 0.7996
Epoch 82/100

50/50 [=====] - 5s 96ms/step - loss: 0.2610 - val_loss: 0.7985
Epoch 83/100
50/50 [=====] - 5s 94ms/step - loss: 0.2612 - val_loss: 0.8102
Epoch 84/100
50/50 [=====] - 5s 93ms/step - loss: 0.2611 - val_loss: 0.7984
Epoch 85/100
50/50 [=====] - 5s 100ms/step - loss: 0.2598 - val_loss: 0.7907
Epoch 86/100
50/50 [=====] - 5s 94ms/step - loss: 0.2588 - val_loss: 0.8022
Epoch 87/100
50/50 [=====] - 5s 95ms/step - loss: 0.2598 - val_loss: 0.8103
Epoch 88/100
50/50 [=====] - 5s 93ms/step - loss: 0.2598 - val_loss: 0.7779
Epoch 89/100
50/50 [=====] - 5s 97ms/step - loss: 0.2599 - val_loss: 0.7869
Epoch 90/100
50/50 [=====] - 5s 99ms/step - loss: 0.2568 - val_loss: 0.8203
Epoch 91/100
50/50 [=====] - 5s 97ms/step - loss: 0.2570 - val_loss: 0.8061
Epoch 92/100
50/50 [=====] - 5s 95ms/step - loss: 0.2563 - val_loss: 0.8064
Epoch 93/100
50/50 [=====] - 5s 96ms/step - loss: 0.2567 - val_loss: 0.8015
Epoch 94/100
50/50 [=====] - 5s 95ms/step - loss: 0.2554 - val_loss: 0.8037
Epoch 95/100
50/50 [=====] - 5s 95ms/step - loss: 0.2538 - val_loss: 0.8078
Epoch 96/100
50/50 [=====] - 5s 96ms/step - loss: 0.2552 - val_loss: 0.8187
Epoch 97/100
50/50 [=====] - 5s 93ms/step - loss: 0.2549 - val_loss: 0.8000
Epoch 98/100
50/50 [=====] - 5s 95ms/step - loss: 0.2532 - val_loss: 0.8172
Epoch 99/100
50/50 [=====] - 5s 94ms/step - loss: 0.2536 - val_loss: 0.7959
Epoch 100/100
50/50 [=====] - 5s 95ms/step - loss: 0.2533 - val_loss: 0.8040



WI_2 - True Future: [4670. 3301. 3386. 3500. 3961. 4569. 5586. 4915. 5718. 5169. 5786. 4607. 5506. 7046. 5046. 4907. 5358. 5180. 6333. 6463.]

WI_2 - Model Prediction: [4220.104 3863.1392 3424.1802 3288.8428 3799.6455 4644.109 5392.8506

5566.0615 5221.7437 4480.756 4003.6958 4177.433 4762.665 5269.6494

5455.79 5144.698 4546.7905 4210.343 4275.8916 4542.494]

WI_2 - Model Percentage Error: [9.63374724 17.02935959 1.12758936 6.03306362 4.07357971 1.64388021

3.45774103 13.2464196 8.67884483 13.31484118 30.80373659 9.32422172

13.50045334 25.21076619 8.12108678 4.84406444 15.1401544 18.71925148

32.48236852 29.71539315]%

WI_2 - Model Mean Percentage Error: 13.305028149595046%

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Training Model for WI_3...

Epoch 1/100

50/50 [=====] - 5s 107ms/step - loss: 0.7837 - val_loss: 0.9971

Epoch 2/100

50/50 [=====] - 5s 95ms/step - loss: 0.7509 - val_loss: 0.8836

Epoch 3/100

50/50 [=====] - 5s 94ms/step - loss: 0.7049 - val_loss: 0.8346

Epoch 4/100

50/50 [=====] - 5s 96ms/step - loss: 0.6796 - val_loss: 0.8171

Epoch 5/100

50/50 [=====] - 5s 95ms/step - loss: 0.6435 - val_loss: 0.7960

Epoch 6/100

50/50 [=====] - 5s 98ms/step - loss: 0.6160 - val_loss: 0.7779

Epoch 7/100

50/50 [=====] - 5s 93ms/step - loss: 0.6048 - val_loss: 0.7643

Epoch 8/100

50/50 [=====] - 5s 98ms/step - loss: 0.6023 - val_loss: 0.7456

Epoch 9/100

50/50 [=====] - 5s 93ms/step - loss: 0.5633 - val_loss: 0.6630

Epoch 10/100

50/50 [=====] - 5s 95ms/step - loss: 0.5710 - val_loss: 0.7309

Epoch 11/100

50/50 [=====] - 5s 92ms/step - loss: 0.5010 - val_loss: 0.5612

Epoch 12/100

50/50 [=====] - 5s 93ms/step - loss: 0.4427 - val_loss: 0.5539

Epoch 13/100

50/50 [=====] - 5s 96ms/step - loss: 0.4327 - val_loss: 0.5558

Epoch 14/100

50/50 [=====] - 5s 97ms/step - loss: 0.4255 - val_loss: 0.5405

Epoch 15/100

50/50 [=====] - 5s 95ms/step - loss: 0.4192 - val_loss: 0.5512

Epoch 16/100

50/50 [=====] - 5s 94ms/step - loss: 0.4141 - val_loss: 0.5288

Epoch 17/100

50/50 [=====] - 5s 96ms/step - loss: 0.4089 - val_loss: 0.5838

Epoch 18/100

50/50 [=====] - 5s 97ms/step - loss: 0.4080 - val_loss: 0.5415

Epoch 19/100

50/50 [=====] - 5s 93ms/step - loss: 0.4021 - val_loss: 0.5582

Epoch 20/100

50/50 [=====] - 5s 95ms/step - loss: 0.3966 - val_loss: 0.5027

Epoch 21/100

50/50 [=====] - 5s 95ms/step - loss: 0.3945 - val_loss: 0.5314

Epoch 22/100
50/50 [=====] - 5s 94ms/step - loss: 0.3896 - val_loss: 0.5253
Epoch 23/100
50/50 [=====] - 5s 96ms/step - loss: 0.3874 - val_loss: 0.5366
Epoch 24/100
50/50 [=====] - 5s 97ms/step - loss: 0.3824 - val_loss: 0.5812
Epoch 25/100
50/50 [=====] - 5s 96ms/step - loss: 0.3806 - val_loss: 0.5221
Epoch 26/100
50/50 [=====] - 5s 95ms/step - loss: 0.3787 - val_loss: 0.5415
Epoch 27/100
50/50 [=====] - 5s 97ms/step - loss: 0.3754 - val_loss: 0.5554
Epoch 28/100
50/50 [=====] - 5s 96ms/step - loss: 0.3711 - val_loss: 0.5115
Epoch 29/100
50/50 [=====] - 5s 94ms/step - loss: 0.3696 - val_loss: 0.5259
Epoch 30/100
50/50 [=====] - 5s 97ms/step - loss: 0.3692 - val_loss: 0.5254
Epoch 31/100
50/50 [=====] - 5s 95ms/step - loss: 0.3670 - val_loss: 0.5312
Epoch 32/100
50/50 [=====] - 5s 99ms/step - loss: 0.3627 - val_loss: 0.5407
Epoch 33/100
50/50 [=====] - 5s 95ms/step - loss: 0.3621 - val_loss: 0.5366
Epoch 34/100
50/50 [=====] - 5s 96ms/step - loss: 0.3597 - val_loss: 0.6195
Epoch 35/100
50/50 [=====] - 5s 95ms/step - loss: 0.3587 - val_loss: 0.5621
Epoch 36/100
50/50 [=====] - 5s 95ms/step - loss: 0.3600 - val_loss: 0.5600
Epoch 37/100
50/50 [=====] - 5s 95ms/step - loss: 0.3570 - val_loss: 0.4928
Epoch 38/100
50/50 [=====] - 5s 96ms/step - loss: 0.3553 - val_loss: 0.5423
Epoch 39/100
50/50 [=====] - 5s 98ms/step - loss: 0.3542 - val_loss: 0.5036
Epoch 40/100
50/50 [=====] - 5s 97ms/step - loss: 0.3510 - val_loss: 0.5574
Epoch 41/100
50/50 [=====] - 5s 96ms/step - loss: 0.3524 - val_loss: 0.5587
Epoch 42/100
50/50 [=====] - 5s 95ms/step - loss: 0.3476 - val_loss: 0.5471
Epoch 43/100
50/50 [=====] - 5s 96ms/step - loss: 0.3541 - val_loss: 0.5680
Epoch 44/100
50/50 [=====] - 5s 98ms/step - loss: 0.3471 - val_loss: 0.5583
Epoch 45/100
50/50 [=====] - 5s 98ms/step - loss: 0.3420 - val_loss: 0.5791

Epoch 46/100
50/50 [=====] - 5s 94ms/step - loss: 0.3452 - val_loss: 0.5126
Epoch 47/100
50/50 [=====] - 5s 96ms/step - loss: 0.3442 - val_loss: 0.5082
Epoch 48/100
50/50 [=====] - 5s 96ms/step - loss: 0.3369 - val_loss: 0.5414
Epoch 49/100
50/50 [=====] - 5s 96ms/step - loss: 0.3380 - val_loss: 0.5861
Epoch 50/100
50/50 [=====] - 5s 94ms/step - loss: 0.3334 - val_loss: 0.5627
Epoch 51/100
50/50 [=====] - 5s 97ms/step - loss: 0.3411 - val_loss: 0.5902
Epoch 52/100
50/50 [=====] - 5s 100ms/step - loss: 0.3304 - val_loss: 0.5628
Epoch 53/100
50/50 [=====] - 7s 138ms/step - loss: 0.3320 - val_loss: 0.5226
Epoch 54/100
50/50 [=====] - 6s 110ms/step - loss: 0.3270 - val_loss: 0.5401
Epoch 55/100
50/50 [=====] - 5s 97ms/step - loss: 0.3312 - val_loss: 0.5265
Epoch 56/100
50/50 [=====] - 5s 96ms/step - loss: 0.3250 - val_loss: 0.5603
Epoch 57/100
50/50 [=====] - 5s 99ms/step - loss: 0.3255 - val_loss: 0.5351
Epoch 58/100
50/50 [=====] - 5s 99ms/step - loss: 0.3225 - val_loss: 0.5563
Epoch 59/100
50/50 [=====] - 5s 96ms/step - loss: 0.3259 - val_loss: 0.5540
Epoch 60/100
50/50 [=====] - 5s 98ms/step - loss: 0.3200 - val_loss: 0.5675
Epoch 61/100
50/50 [=====] - 5s 99ms/step - loss: 0.3183 - val_loss: 0.6706
Epoch 62/100
50/50 [=====] - 5s 98ms/step - loss: 0.3189 - val_loss: 0.5419
Epoch 63/100
50/50 [=====] - 5s 97ms/step - loss: 0.3191 - val_loss: 0.5803
Epoch 64/100
50/50 [=====] - 5s 98ms/step - loss: 0.3184 - val_loss: 0.5918
Epoch 65/100
50/50 [=====] - 5s 97ms/step - loss: 0.3186 - val_loss: 0.5570
Epoch 66/100
50/50 [=====] - 5s 97ms/step - loss: 0.3141 - val_loss: 0.5684
Epoch 67/100
50/50 [=====] - 5s 94ms/step - loss: 0.3141 - val_loss: 0.5701
Epoch 68/100
50/50 [=====] - 5s 95ms/step - loss: 0.3297 - val_loss: 0.5525
Epoch 69/100
50/50 [=====] - 5s 95ms/step - loss: 0.3116 - val_loss: 0.5493

Epoch 70/100
50/50 [=====] - 5s 95ms/step - loss: 0.3096 - val_loss: 0.5989
Epoch 71/100
50/50 [=====] - 5s 96ms/step - loss: 0.3108 - val_loss: 0.5337
Epoch 72/100
50/50 [=====] - 5s 96ms/step - loss: 0.3086 - val_loss: 0.5667
Epoch 73/100
50/50 [=====] - 5s 97ms/step - loss: 0.3066 - val_loss: 0.6072
Epoch 74/100
50/50 [=====] - 5s 97ms/step - loss: 0.3076 - val_loss: 0.5941
Epoch 75/100
50/50 [=====] - 5s 96ms/step - loss: 0.3111 - val_loss: 0.5440
Epoch 76/100
50/50 [=====] - 5s 95ms/step - loss: 0.3037 - val_loss: 0.5622
Epoch 77/100
50/50 [=====] - 5s 99ms/step - loss: 0.3064 - val_loss: 0.5764
Epoch 78/100
50/50 [=====] - 5s 98ms/step - loss: 0.3031 - val_loss: 0.5508
Epoch 79/100
50/50 [=====] - 5s 97ms/step - loss: 0.3035 - val_loss: 0.5772
Epoch 80/100
50/50 [=====] - 5s 97ms/step - loss: 0.3017 - val_loss: 0.5683
Epoch 81/100
50/50 [=====] - 5s 98ms/step - loss: 0.3018 - val_loss: 0.5671
Epoch 82/100
50/50 [=====] - 5s 95ms/step - loss: 0.3041 - val_loss: 0.5555
Epoch 83/100
50/50 [=====] - 5s 100ms/step - loss: 0.2999 - val_loss: 0.5472
Epoch 84/100
50/50 [=====] - 5s 95ms/step - loss: 0.2970 - val_loss: 0.5239
Epoch 85/100
50/50 [=====] - 5s 99ms/step - loss: 0.2980 - val_loss: 0.5737
Epoch 86/100
50/50 [=====] - 5s 98ms/step - loss: 0.3007 - val_loss: 0.5724
Epoch 87/100
50/50 [=====] - 5s 95ms/step - loss: 0.2958 - val_loss: 0.5603
Epoch 88/100
50/50 [=====] - 5s 98ms/step - loss: 0.2976 - val_loss: 0.5443
Epoch 89/100
50/50 [=====] - 5s 97ms/step - loss: 0.2956 - val_loss: 0.5263
Epoch 90/100
50/50 [=====] - 5s 97ms/step - loss: 0.2943 - val_loss: 0.5746
Epoch 91/100
50/50 [=====] - 5s 95ms/step - loss: 0.2962 - val_loss: 0.5769
Epoch 92/100
50/50 [=====] - 5s 98ms/step - loss: 0.2929 - val_loss: 0.5536
Epoch 93/100
50/50 [=====] - 5s 98ms/step - loss: 0.2925 - val_loss: 0.5535

Epoch 94/100

50/50 [=====] - 5s 96ms/step - loss: 0.2953 - val_loss: 0.5586

Epoch 95/100

50/50 [=====] - 5s 95ms/step - loss: 0.2912 - val_loss: 0.5212

Epoch 96/100

50/50 [=====] - 5s 96ms/step - loss: 0.2905 - val_loss: 0.5839

Epoch 97/100

50/50 [=====] - 5s 98ms/step - loss: 0.2914 - val_loss: 0.5919

Epoch 98/100

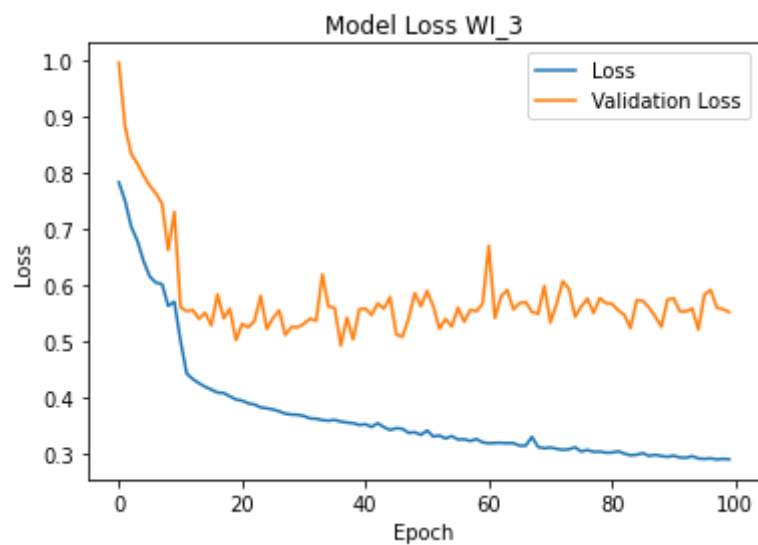
50/50 [=====] - 5s 99ms/step - loss: 0.2895 - val_loss: 0.5599

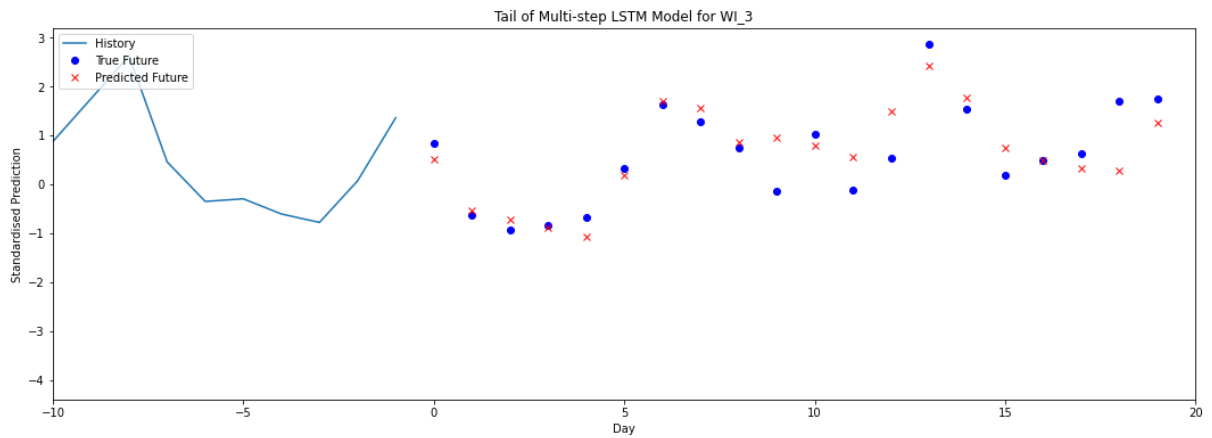
Epoch 99/100

50/50 [=====] - 5s 95ms/step - loss: 0.2905 - val_loss: 0.5573

Epoch 100/100

50/50 [=====] - 5s 95ms/step - loss: 0.2898 - val_loss: 0.5525





WI_3 - True Future: [3998. 2806. 2564. 2632. 2775. 3580. 4653. 4362. 3938. 3210. 4153. 3219. 3756. 5657. 4577. 3468. 3728. 3833. 4721. 4759.]

WI_3 - Model Prediction: [3731.802 2880.7043 2735.3726 2600.5496 2443.9446 3463.6172 4707.5386

4596.152 4016.3386 4103.717 3974.227 3783.7698 4531.028 5295.509

4776.6274 3925.47 3723.697 3586.8564 3551.6343 4355.7485]

WI_3 - Model Percentage Error: [6.65827909 2.6623074 6.68379714 1.19492551 11.92992504 3.25091655

1.17211636 5.36799302 1.98929972 27.84164476 4.3046701 17.54488274

20.63439382 6.39015752 4.36153466 13.19117563 0.11542324 6.42169462

24.76944975 8.47344957]%

WI_3 - Model Mean Percentage Error: 8.747901812088813%

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