

Training Model for CA_1...

Epoch 1/100

50/50 [=====] - 2s 44ms/step - loss: 0.7121 - val_loss: 0.7148

Epoch 2/100

50/50 [=====] - 2s 35ms/step - loss: 0.6261 - val_loss: 0.5330

Epoch 3/100

50/50 [=====] - 2s 37ms/step - loss: 0.4676 - val_loss: 0.4276

Epoch 4/100

50/50 [=====] - 2s 37ms/step - loss: 0.4180 - val_loss: 0.3993

Epoch 5/100

50/50 [=====] - 2s 36ms/step - loss: 0.3837 - val_loss: 0.3554

Epoch 6/100

50/50 [=====] - 2s 37ms/step - loss: 0.3458 - val_loss: 0.3184

Epoch 7/100

50/50 [=====] - 2s 36ms/step - loss: 0.3197 - val_loss: 0.2929

Epoch 8/100

50/50 [=====] - 2s 36ms/step - loss: 0.3100 - val_loss: 0.2929

Epoch 9/100

50/50 [=====] - 2s 37ms/step - loss: 0.3093 - val_loss: 0.2824

Epoch 10/100

50/50 [=====] - 2s 36ms/step - loss: 0.3015 - val_loss: 0.2839

Epoch 11/100

50/50 [=====] - 2s 36ms/step - loss: 0.3135 - val_loss: 0.2901

Epoch 12/100

50/50 [=====] - 2s 37ms/step - loss: 0.2989 - val_loss: 0.2775

Epoch 13/100

50/50 [=====] - 2s 38ms/step - loss: 0.3632 - val_loss: 0.3143

Epoch 14/100

50/50 [=====] - 2s 36ms/step - loss: 0.3096 - val_loss: 0.2860

Epoch 15/100

50/50 [=====] - 2s 36ms/step - loss: 0.2959 - val_loss: 0.2881

Epoch 16/100

50/50 [=====] - 2s 36ms/step - loss: 0.2924 - val_loss: 0.2876

Epoch 17/100

50/50 [=====] - 2s 36ms/step - loss: 0.2894 - val_loss: 0.2789

Epoch 18/100

50/50 [=====] - 2s 35ms/step - loss: 0.2906 - val_loss: 0.2879

Epoch 19/100

50/50 [=====] - 2s 35ms/step - loss: 0.2883 - val_loss: 0.2971

Epoch 20/100

50/50 [=====] - 2s 36ms/step - loss: 0.2932 - val_loss: 0.3237

Epoch 21/100

50/50 [=====] - 2s 38ms/step - loss: 0.3072 - val_loss: 0.2850

Epoch 22/100

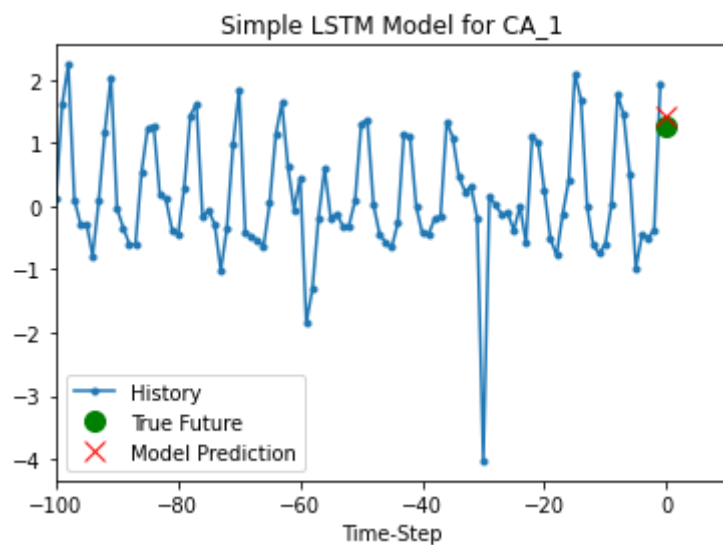
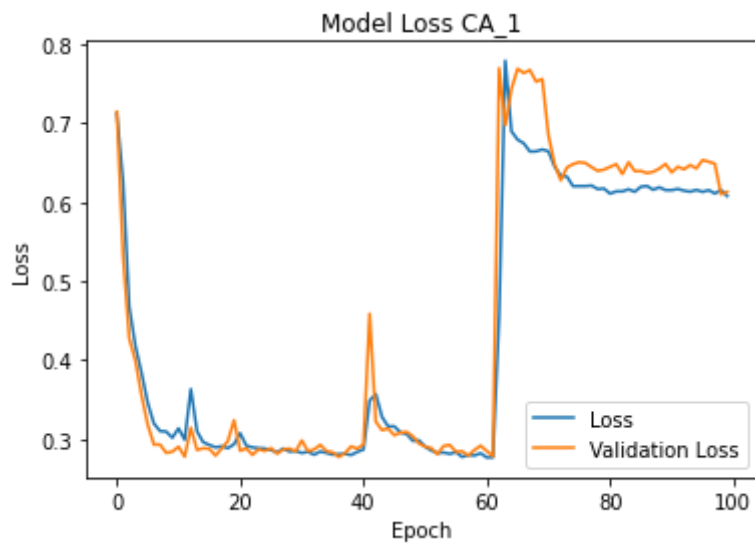
50/50 [=====] - 2s 36ms/step - loss: 0.2914 - val_loss: 0.2880

Epoch 23/100
50/50 [=====] - 2s 37ms/step - loss: 0.2893 - val_loss: 0.2798
Epoch 24/100
50/50 [=====] - 2s 37ms/step - loss: 0.2883 - val_loss: 0.2870
Epoch 25/100
50/50 [=====] - 2s 37ms/step - loss: 0.2879 - val_loss: 0.2847
Epoch 26/100
50/50 [=====] - 2s 37ms/step - loss: 0.2860 - val_loss: 0.2884
Epoch 27/100
50/50 [=====] - 2s 37ms/step - loss: 0.2829 - val_loss: 0.2813
Epoch 28/100
50/50 [=====] - 2s 39ms/step - loss: 0.2879 - val_loss: 0.2868
Epoch 29/100
50/50 [=====] - 2s 39ms/step - loss: 0.2840 - val_loss: 0.2878
Epoch 30/100
50/50 [=====] - 2s 35ms/step - loss: 0.2848 - val_loss: 0.2842
Epoch 31/100
50/50 [=====] - 2s 36ms/step - loss: 0.2822 - val_loss: 0.2981
Epoch 32/100
50/50 [=====] - 2s 36ms/step - loss: 0.2837 - val_loss: 0.2843
Epoch 33/100
50/50 [=====] - 2s 38ms/step - loss: 0.2800 - val_loss: 0.2867
Epoch 34/100
50/50 [=====] - 2s 39ms/step - loss: 0.2841 - val_loss: 0.2925
Epoch 35/100
50/50 [=====] - 2s 37ms/step - loss: 0.2823 - val_loss: 0.2845
Epoch 36/100
50/50 [=====] - 2s 36ms/step - loss: 0.2801 - val_loss: 0.2830
Epoch 37/100
50/50 [=====] - 2s 36ms/step - loss: 0.2807 - val_loss: 0.2771
Epoch 38/100
50/50 [=====] - 2s 37ms/step - loss: 0.2811 - val_loss: 0.2818
Epoch 39/100
50/50 [=====] - 2s 39ms/step - loss: 0.2796 - val_loss: 0.2906
Epoch 40/100
50/50 [=====] - 2s 38ms/step - loss: 0.2836 - val_loss: 0.2876
Epoch 41/100
50/50 [=====] - 2s 36ms/step - loss: 0.2866 - val_loss: 0.2931
Epoch 42/100
50/50 [=====] - 2s 37ms/step - loss: 0.3486 - val_loss: 0.4587
Epoch 43/100
50/50 [=====] - 2s 36ms/step - loss: 0.3569 - val_loss: 0.3219
Epoch 44/100
50/50 [=====] - 2s 36ms/step - loss: 0.3281 - val_loss: 0.3112
Epoch 45/100
50/50 [=====] - 2s 36ms/step - loss: 0.3158 - val_loss: 0.3132
Epoch 46/100
50/50 [=====] - 2s 37ms/step - loss: 0.3160 - val_loss: 0.3047

Epoch 47/100
50/50 [=====] - 2s 37ms/step - loss: 0.3081 - val_loss: 0.3080
Epoch 48/100
50/50 [=====] - 2s 36ms/step - loss: 0.3063 - val_loss: 0.3090
Epoch 49/100
50/50 [=====] - 2s 36ms/step - loss: 0.2976 - val_loss: 0.3032
Epoch 50/100
50/50 [=====] - 2s 37ms/step - loss: 0.2983 - val_loss: 0.2943
Epoch 51/100
50/50 [=====] - 2s 36ms/step - loss: 0.2902 - val_loss: 0.2903
Epoch 52/100
50/50 [=====] - 2s 37ms/step - loss: 0.2854 - val_loss: 0.2884
Epoch 53/100
50/50 [=====] - 2s 36ms/step - loss: 0.2822 - val_loss: 0.2805
Epoch 54/100
50/50 [=====] - 2s 38ms/step - loss: 0.2828 - val_loss: 0.2912
Epoch 55/100
50/50 [=====] - 2s 36ms/step - loss: 0.2811 - val_loss: 0.2923
Epoch 56/100
50/50 [=====] - 2s 37ms/step - loss: 0.2832 - val_loss: 0.2837
Epoch 57/100
50/50 [=====] - 2s 38ms/step - loss: 0.2772 - val_loss: 0.2843
Epoch 58/100
50/50 [=====] - 2s 39ms/step - loss: 0.2797 - val_loss: 0.2789
Epoch 59/100
50/50 [=====] - 2s 37ms/step - loss: 0.2790 - val_loss: 0.2859
Epoch 60/100
50/50 [=====] - 2s 37ms/step - loss: 0.2819 - val_loss: 0.2914
Epoch 61/100
50/50 [=====] - 2s 37ms/step - loss: 0.2765 - val_loss: 0.2847
Epoch 62/100
50/50 [=====] - 2s 36ms/step - loss: 0.2766 - val_loss: 0.2779
Epoch 63/100
50/50 [=====] - 2s 36ms/step - loss: 0.4553 - val_loss: 0.7701
Epoch 64/100
50/50 [=====] - 2s 38ms/step - loss: 0.7795 - val_loss: 0.6978
Epoch 65/100
50/50 [=====] - 2s 36ms/step - loss: 0.6900 - val_loss: 0.7438
Epoch 66/100
50/50 [=====] - 2s 39ms/step - loss: 0.6795 - val_loss: 0.7694
Epoch 67/100
50/50 [=====] - 2s 39ms/step - loss: 0.6747 - val_loss: 0.7639
Epoch 68/100
50/50 [=====] - 2s 38ms/step - loss: 0.6643 - val_loss: 0.7677
Epoch 69/100
50/50 [=====] - 2s 37ms/step - loss: 0.6646 - val_loss: 0.7530
Epoch 70/100
50/50 [=====] - 2s 38ms/step - loss: 0.6670 - val_loss: 0.7563

Epoch 71/100
50/50 [=====] - 2s 39ms/step - loss: 0.6647 - val_loss: 0.6849
Epoch 72/100
50/50 [=====] - 2s 37ms/step - loss: 0.6453 - val_loss: 0.6484
Epoch 73/100
50/50 [=====] - 2s 38ms/step - loss: 0.6336 - val_loss: 0.6279
Epoch 74/100
50/50 [=====] - 2s 37ms/step - loss: 0.6326 - val_loss: 0.6441
Epoch 75/100
50/50 [=====] - 2s 37ms/step - loss: 0.6204 - val_loss: 0.6484
Epoch 76/100
50/50 [=====] - 2s 37ms/step - loss: 0.6206 - val_loss: 0.6508
Epoch 77/100
50/50 [=====] - 2s 37ms/step - loss: 0.6205 - val_loss: 0.6498
Epoch 78/100
50/50 [=====] - 2s 37ms/step - loss: 0.6212 - val_loss: 0.6446
Epoch 79/100
50/50 [=====] - 2s 37ms/step - loss: 0.6168 - val_loss: 0.6398
Epoch 80/100
50/50 [=====] - 2s 37ms/step - loss: 0.6175 - val_loss: 0.6414
Epoch 81/100
50/50 [=====] - 2s 37ms/step - loss: 0.6110 - val_loss: 0.6448
Epoch 82/100
50/50 [=====] - 2s 39ms/step - loss: 0.6138 - val_loss: 0.6483
Epoch 83/100
50/50 [=====] - 2s 39ms/step - loss: 0.6138 - val_loss: 0.6359
Epoch 84/100
50/50 [=====] - 2s 40ms/step - loss: 0.6165 - val_loss: 0.6508
Epoch 85/100
50/50 [=====] - 2s 36ms/step - loss: 0.6133 - val_loss: 0.6396
Epoch 86/100
50/50 [=====] - 2s 37ms/step - loss: 0.6197 - val_loss: 0.6397
Epoch 87/100
50/50 [=====] - 2s 37ms/step - loss: 0.6207 - val_loss: 0.6371
Epoch 88/100
50/50 [=====] - 2s 37ms/step - loss: 0.6159 - val_loss: 0.6386
Epoch 89/100
50/50 [=====] - 2s 37ms/step - loss: 0.6190 - val_loss: 0.6427
Epoch 90/100
50/50 [=====] - 2s 37ms/step - loss: 0.6154 - val_loss: 0.6486
Epoch 91/100
50/50 [=====] - 2s 37ms/step - loss: 0.6154 - val_loss: 0.6379
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.6169 - val_loss: 0.6451
Epoch 93/100
50/50 [=====] - 2s 37ms/step - loss: 0.6147 - val_loss: 0.6418
Epoch 94/100
50/50 [=====] - 2s 38ms/step - loss: 0.6135 - val_loss: 0.6472

Epoch 95/100
 50/50 [=====] - 2s 36ms/step - loss: 0.6157 - val_loss: 0.6429
 Epoch 96/100
 50/50 [=====] - 2s 39ms/step - loss: 0.6132 - val_loss: 0.6536
 Epoch 97/100
 50/50 [=====] - 2s 38ms/step - loss: 0.6154 - val_loss: 0.6514
 Epoch 98/100
 50/50 [=====] - 2s 37ms/step - loss: 0.6111 - val_loss: 0.6489
 Epoch 99/100
 50/50 [=====] - 2s 39ms/step - loss: 0.6155 - val_loss: 0.6102
 Epoch 100/100
 50/50 [=====] - 2s 37ms/step - loss: 0.6080 - val_loss: 0.6132



CA_1 - True Future: 5247
 CA_1 - Model Prediction: 5410
 CA_1 - Model Percentage Error: 3.11%

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Training Model for CA_2...

Epoch 1/100

50/50 [=====] - 2s 43ms/step - loss: 0.6888 - val_loss: 1.1607

Epoch 2/100

50/50 [=====] - 2s 37ms/step - loss: 0.5999 - val_loss: 1.1084

Epoch 3/100

50/50 [=====] - 2s 37ms/step - loss: 0.4892 - val_loss: 1.0419

Epoch 4/100

50/50 [=====] - 2s 36ms/step - loss: 0.4426 - val_loss: 1.0512

Epoch 5/100

50/50 [=====] - 2s 36ms/step - loss: 0.3994 - val_loss: 0.8626

Epoch 6/100

50/50 [=====] - 2s 39ms/step - loss: 0.3516 - val_loss: 0.7823

Epoch 7/100

50/50 [=====] - 2s 38ms/step - loss: 0.3069 - val_loss: 0.6550

Epoch 8/100

50/50 [=====] - 2s 38ms/step - loss: 0.2912 - val_loss: 0.5889

Epoch 9/100

50/50 [=====] - 2s 36ms/step - loss: 0.2809 - val_loss: 0.5780

Epoch 10/100

50/50 [=====] - 2s 37ms/step - loss: 0.2727 - val_loss: 0.5655

Epoch 11/100

50/50 [=====] - 2s 36ms/step - loss: 0.2636 - val_loss: 0.5500

Epoch 12/100

50/50 [=====] - 2s 36ms/step - loss: 0.2597 - val_loss: 0.5292

Epoch 13/100

50/50 [=====] - 2s 36ms/step - loss: 0.2523 - val_loss: 0.5164

Epoch 14/100

50/50 [=====] - 2s 38ms/step - loss: 0.2479 - val_loss: 0.5010

Epoch 15/100

50/50 [=====] - 2s 38ms/step - loss: 0.2477 - val_loss: 0.4631

Epoch 16/100

50/50 [=====] - 2s 36ms/step - loss: 0.2438 - val_loss: 0.4663

Epoch 17/100

50/50 [=====] - 2s 37ms/step - loss: 0.2442 - val_loss: 0.4949

Epoch 18/100

50/50 [=====] - 2s 38ms/step - loss: 0.2422 - val_loss: 0.4566

Epoch 19/100

50/50 [=====] - 2s 38ms/step - loss: 0.2407 - val_loss: 0.4851

Epoch 20/100

50/50 [=====] - 2s 37ms/step - loss: 0.2408 - val_loss: 0.4661

Epoch 21/100

50/50 [=====] - 2s 37ms/step - loss: 0.2374 - val_loss: 0.4668

Epoch 22/100

50/50 [=====] - 2s 36ms/step - loss: 0.2395 - val_loss: 0.4782

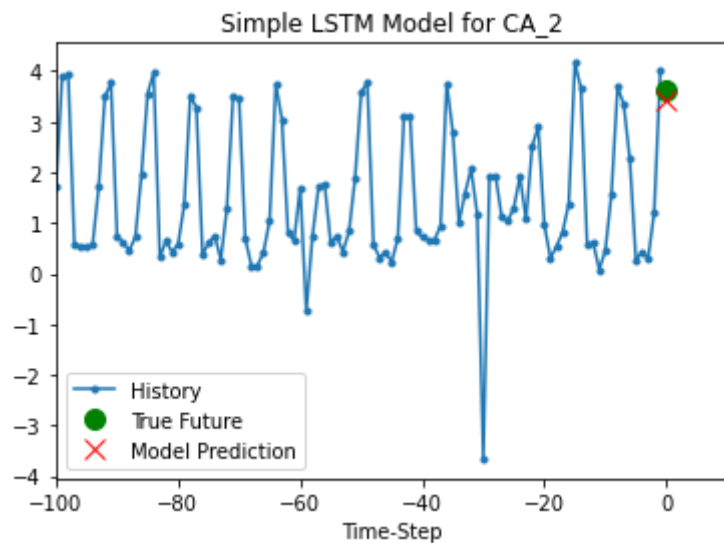
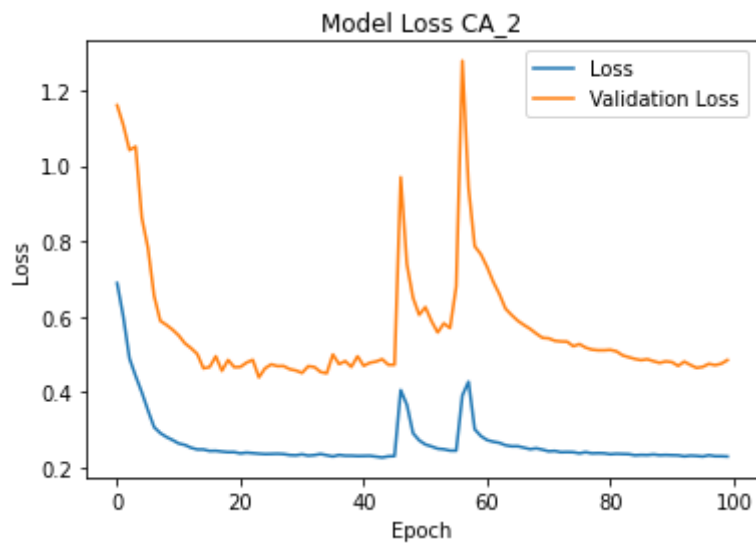
Epoch 23/100

50/50 [=====] - 2s 39ms/step - loss: 0.2381 - val_loss: 0.4854
Epoch 24/100
50/50 [=====] - 2s 37ms/step - loss: 0.2366 - val_loss: 0.4390
Epoch 25/100
50/50 [=====] - 2s 38ms/step - loss: 0.2356 - val_loss: 0.4632
Epoch 26/100
50/50 [=====] - 2s 37ms/step - loss: 0.2359 - val_loss: 0.4736
Epoch 27/100
50/50 [=====] - 2s 38ms/step - loss: 0.2364 - val_loss: 0.4689
Epoch 28/100
50/50 [=====] - 2s 37ms/step - loss: 0.2356 - val_loss: 0.4691
Epoch 29/100
50/50 [=====] - 2s 38ms/step - loss: 0.2330 - val_loss: 0.4608
Epoch 30/100
50/50 [=====] - 2s 36ms/step - loss: 0.2323 - val_loss: 0.4572
Epoch 31/100
50/50 [=====] - 2s 35ms/step - loss: 0.2349 - val_loss: 0.4509
Epoch 32/100
50/50 [=====] - 2s 37ms/step - loss: 0.2314 - val_loss: 0.4687
Epoch 33/100
50/50 [=====] - 2s 38ms/step - loss: 0.2328 - val_loss: 0.4665
Epoch 34/100
50/50 [=====] - 2s 37ms/step - loss: 0.2358 - val_loss: 0.4533
Epoch 35/100
50/50 [=====] - 2s 37ms/step - loss: 0.2325 - val_loss: 0.4499
Epoch 36/100
50/50 [=====] - 2s 38ms/step - loss: 0.2292 - val_loss: 0.4998
Epoch 37/100
50/50 [=====] - 2s 37ms/step - loss: 0.2332 - val_loss: 0.4742
Epoch 38/100
50/50 [=====] - 2s 37ms/step - loss: 0.2312 - val_loss: 0.4821
Epoch 39/100
50/50 [=====] - 2s 36ms/step - loss: 0.2312 - val_loss: 0.4669
Epoch 40/100
50/50 [=====] - 2s 38ms/step - loss: 0.2304 - val_loss: 0.4950
Epoch 41/100
50/50 [=====] - 2s 38ms/step - loss: 0.2306 - val_loss: 0.4697
Epoch 42/100
50/50 [=====] - 2s 37ms/step - loss: 0.2310 - val_loss: 0.4778
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.2288 - val_loss: 0.4810
Epoch 44/100
50/50 [=====] - 2s 37ms/step - loss: 0.2266 - val_loss: 0.4871
Epoch 45/100
50/50 [=====] - 2s 36ms/step - loss: 0.2296 - val_loss: 0.4724
Epoch 46/100
50/50 [=====] - 2s 37ms/step - loss: 0.2304 - val_loss: 0.4724
Epoch 47/100

50/50 [=====] - 2s 40ms/step - loss: 0.4053 - val_loss: 0.9700
Epoch 48/100
50/50 [=====] - 2s 37ms/step - loss: 0.3662 - val_loss: 0.7395
Epoch 49/100
50/50 [=====] - 2s 37ms/step - loss: 0.2909 - val_loss: 0.6499
Epoch 50/100
50/50 [=====] - 2s 37ms/step - loss: 0.2719 - val_loss: 0.6047
Epoch 51/100
50/50 [=====] - 2s 38ms/step - loss: 0.2610 - val_loss: 0.6255
Epoch 52/100
50/50 [=====] - 2s 38ms/step - loss: 0.2559 - val_loss: 0.5879
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.2499 - val_loss: 0.5581
Epoch 54/100
50/50 [=====] - 2s 38ms/step - loss: 0.2484 - val_loss: 0.5823
Epoch 55/100
50/50 [=====] - 2s 40ms/step - loss: 0.2448 - val_loss: 0.5697
Epoch 56/100
50/50 [=====] - 2s 38ms/step - loss: 0.2447 - val_loss: 0.6802
Epoch 57/100
50/50 [=====] - 2s 37ms/step - loss: 0.3910 - val_loss: 1.2789
Epoch 58/100
50/50 [=====] - 2s 38ms/step - loss: 0.4275 - val_loss: 0.9424
Epoch 59/100
50/50 [=====] - 2s 38ms/step - loss: 0.3014 - val_loss: 0.7869
Epoch 60/100
50/50 [=====] - 2s 39ms/step - loss: 0.2835 - val_loss: 0.7656
Epoch 61/100
50/50 [=====] - 2s 36ms/step - loss: 0.2728 - val_loss: 0.7323
Epoch 62/100
50/50 [=====] - 2s 39ms/step - loss: 0.2684 - val_loss: 0.6927
Epoch 63/100
50/50 [=====] - 2s 38ms/step - loss: 0.2654 - val_loss: 0.6602
Epoch 64/100
50/50 [=====] - 2s 37ms/step - loss: 0.2590 - val_loss: 0.6212
Epoch 65/100
50/50 [=====] - 2s 38ms/step - loss: 0.2563 - val_loss: 0.6042
Epoch 66/100
50/50 [=====] - 2s 38ms/step - loss: 0.2564 - val_loss: 0.5891
Epoch 67/100
50/50 [=====] - 2s 38ms/step - loss: 0.2525 - val_loss: 0.5779
Epoch 68/100
50/50 [=====] - 2s 37ms/step - loss: 0.2486 - val_loss: 0.5676
Epoch 69/100
50/50 [=====] - 2s 38ms/step - loss: 0.2509 - val_loss: 0.5550
Epoch 70/100
50/50 [=====] - 2s 39ms/step - loss: 0.2473 - val_loss: 0.5440
Epoch 71/100

50/50 [=====] - 2s 38ms/step - loss: 0.2430 - val_loss: 0.5425
Epoch 72/100
50/50 [=====] - 2s 39ms/step - loss: 0.2438 - val_loss: 0.5361
Epoch 73/100
50/50 [=====] - 2s 38ms/step - loss: 0.2406 - val_loss: 0.5343
Epoch 74/100
50/50 [=====] - 2s 36ms/step - loss: 0.2410 - val_loss: 0.5337
Epoch 75/100
50/50 [=====] - 2s 37ms/step - loss: 0.2406 - val_loss: 0.5216
Epoch 76/100
50/50 [=====] - 2s 36ms/step - loss: 0.2376 - val_loss: 0.5272
Epoch 77/100
50/50 [=====] - 2s 38ms/step - loss: 0.2407 - val_loss: 0.5180
Epoch 78/100
50/50 [=====] - 2s 38ms/step - loss: 0.2375 - val_loss: 0.5128
Epoch 79/100
50/50 [=====] - 2s 36ms/step - loss: 0.2381 - val_loss: 0.5110
Epoch 80/100
50/50 [=====] - 2s 36ms/step - loss: 0.2376 - val_loss: 0.5109
Epoch 81/100
50/50 [=====] - 2s 37ms/step - loss: 0.2352 - val_loss: 0.5120
Epoch 82/100
50/50 [=====] - 2s 38ms/step - loss: 0.2364 - val_loss: 0.5081
Epoch 83/100
50/50 [=====] - 2s 36ms/step - loss: 0.2358 - val_loss: 0.4974
Epoch 84/100
50/50 [=====] - 2s 38ms/step - loss: 0.2354 - val_loss: 0.4925
Epoch 85/100
50/50 [=====] - 2s 37ms/step - loss: 0.2323 - val_loss: 0.4879
Epoch 86/100
50/50 [=====] - 2s 37ms/step - loss: 0.2334 - val_loss: 0.4847
Epoch 87/100
50/50 [=====] - 2s 39ms/step - loss: 0.2329 - val_loss: 0.4871
Epoch 88/100
50/50 [=====] - 2s 39ms/step - loss: 0.2346 - val_loss: 0.4820
Epoch 89/100
50/50 [=====] - 2s 40ms/step - loss: 0.2326 - val_loss: 0.4775
Epoch 90/100
50/50 [=====] - 2s 38ms/step - loss: 0.2333 - val_loss: 0.4815
Epoch 91/100
50/50 [=====] - 2s 37ms/step - loss: 0.2326 - val_loss: 0.4796
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.2322 - val_loss: 0.4694
Epoch 93/100
50/50 [=====] - 2s 36ms/step - loss: 0.2296 - val_loss: 0.4807
Epoch 94/100
50/50 [=====] - 2s 37ms/step - loss: 0.2314 - val_loss: 0.4719
Epoch 95/100

50/50 [=====] - 2s 40ms/step - loss: 0.2306 - val_loss: 0.4642
 Epoch 96/100
 50/50 [=====] - 2s 37ms/step - loss: 0.2292 - val_loss: 0.4669
 Epoch 97/100
 50/50 [=====] - 2s 37ms/step - loss: 0.2325 - val_loss: 0.4750
 Epoch 98/100
 50/50 [=====] - 2s 37ms/step - loss: 0.2300 - val_loss: 0.4714
 Epoch 99/100
 50/50 [=====] - 2s 37ms/step - loss: 0.2300 - val_loss: 0.4753
 Epoch 100/100
 50/50 [=====] - 2s 36ms/step - loss: 0.2292 - val_loss: 0.4848



CA_2 - True Future: 5647
 CA_2 - Model Prediction: 5493
 CA_2 - Model Percentage Error: 2.73%

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Training Model for CA_3...

Epoch 1/100
50/50 [=====] - 3s 67ms/step - loss: 0.6322 - val_loss: 0.6357
Epoch 2/100
50/50 [=====] - 3s 55ms/step - loss: 0.5503 - val_loss: 0.5510
Epoch 3/100
50/50 [=====] - 2s 42ms/step - loss: 0.4888 - val_loss: 0.4799
Epoch 4/100
50/50 [=====] - 2s 38ms/step - loss: 0.4590 - val_loss: 0.4470
Epoch 5/100
50/50 [=====] - 2s 37ms/step - loss: 0.4391 - val_loss: 0.4394
Epoch 6/100
50/50 [=====] - 2s 37ms/step - loss: 0.4277 - val_loss: 0.4162
Epoch 7/100
50/50 [=====] - 2s 39ms/step - loss: 0.4120 - val_loss: 0.3628
Epoch 8/100
50/50 [=====] - 2s 38ms/step - loss: 0.3851 - val_loss: 0.3304
Epoch 9/100
50/50 [=====] - 2s 37ms/step - loss: 0.3613 - val_loss: 0.3038
Epoch 10/100
50/50 [=====] - 2s 39ms/step - loss: 0.3508 - val_loss: 0.2997
Epoch 11/100
50/50 [=====] - 2s 39ms/step - loss: 0.3395 - val_loss: 0.3074
Epoch 12/100
50/50 [=====] - 2s 38ms/step - loss: 0.3284 - val_loss: 0.2885
Epoch 13/100
50/50 [=====] - 2s 38ms/step - loss: 0.3292 - val_loss: 0.3007
Epoch 14/100
50/50 [=====] - 2s 40ms/step - loss: 0.3226 - val_loss: 0.2909
Epoch 15/100
50/50 [=====] - 2s 41ms/step - loss: 0.3227 - val_loss: 0.2932
Epoch 16/100
50/50 [=====] - 2s 42ms/step - loss: 0.3646 - val_loss: 0.3070
Epoch 17/100
50/50 [=====] - 2s 41ms/step - loss: 0.3351 - val_loss: 0.3209
Epoch 18/100
50/50 [=====] - 2s 38ms/step - loss: 0.3191 - val_loss: 0.2916
Epoch 19/100
50/50 [=====] - 2s 39ms/step - loss: 0.3178 - val_loss: 0.2827
Epoch 20/100
50/50 [=====] - 2s 37ms/step - loss: 0.3153 - val_loss: 0.2804
Epoch 21/100
50/50 [=====] - 2s 39ms/step - loss: 0.3161 - val_loss: 0.2866
Epoch 22/100
50/50 [=====] - 2s 38ms/step - loss: 0.3155 - val_loss: 0.2905
Epoch 23/100
50/50 [=====] - 2s 39ms/step - loss: 0.3607 - val_loss: 0.3069

Epoch 24/100
50/50 [=====] - 2s 39ms/step - loss: 0.3377 - val_loss: 0.2837
Epoch 25/100
50/50 [=====] - 2s 38ms/step - loss: 0.5737 - val_loss: 0.5753
Epoch 26/100
50/50 [=====] - 2s 38ms/step - loss: 0.4952 - val_loss: 0.4698
Epoch 27/100
50/50 [=====] - 2s 38ms/step - loss: 0.4486 - val_loss: 0.4278
Epoch 28/100
50/50 [=====] - 2s 38ms/step - loss: 0.4234 - val_loss: 0.4080
Epoch 29/100
50/50 [=====] - 2s 38ms/step - loss: 0.3938 - val_loss: 0.3782
Epoch 30/100
50/50 [=====] - 2s 37ms/step - loss: 0.3790 - val_loss: 0.3525
Epoch 31/100
50/50 [=====] - 2s 39ms/step - loss: 0.3666 - val_loss: 0.3289
Epoch 32/100
50/50 [=====] - 2s 38ms/step - loss: 0.3586 - val_loss: 0.3301
Epoch 33/100
50/50 [=====] - 2s 38ms/step - loss: 0.3498 - val_loss: 0.3176
Epoch 34/100
50/50 [=====] - 2s 41ms/step - loss: 0.3467 - val_loss: 0.3103
Epoch 35/100
50/50 [=====] - 2s 37ms/step - loss: 0.3389 - val_loss: 0.3018
Epoch 36/100
50/50 [=====] - 2s 36ms/step - loss: 0.3384 - val_loss: 0.2934
Epoch 37/100
50/50 [=====] - 2s 37ms/step - loss: 0.3344 - val_loss: 0.2911
Epoch 38/100
50/50 [=====] - 2s 36ms/step - loss: 0.3319 - val_loss: 0.2947
Epoch 39/100
50/50 [=====] - 2s 37ms/step - loss: 0.3301 - val_loss: 0.3273
Epoch 40/100
50/50 [=====] - 2s 36ms/step - loss: 0.3258 - val_loss: 0.3164
Epoch 41/100
50/50 [=====] - 2s 36ms/step - loss: 0.3226 - val_loss: 0.2965
Epoch 42/100
50/50 [=====] - 2s 37ms/step - loss: 0.3227 - val_loss: 0.2959
Epoch 43/100
50/50 [=====] - 2s 38ms/step - loss: 0.3177 - val_loss: 0.2900
Epoch 44/100
50/50 [=====] - 2s 36ms/step - loss: 0.3185 - val_loss: 0.2938
Epoch 45/100
50/50 [=====] - 2s 36ms/step - loss: 0.3144 - val_loss: 0.2890
Epoch 46/100
50/50 [=====] - 2s 36ms/step - loss: 0.3154 - val_loss: 0.2851
Epoch 47/100
50/50 [=====] - 2s 37ms/step - loss: 0.3122 - val_loss: 0.2865

Epoch 48/100
50/50 [=====] - 2s 36ms/step - loss: 0.3115 - val_loss: 0.2971
Epoch 49/100
50/50 [=====] - 2s 36ms/step - loss: 0.3113 - val_loss: 0.2853
Epoch 50/100
50/50 [=====] - 2s 36ms/step - loss: 0.3062 - val_loss: 0.2872
Epoch 51/100
50/50 [=====] - 2s 38ms/step - loss: 0.3089 - val_loss: 0.2919
Epoch 52/100
50/50 [=====] - 2s 36ms/step - loss: 0.3030 - val_loss: 0.2761
Epoch 53/100
50/50 [=====] - 2s 36ms/step - loss: 0.3061 - val_loss: 0.2738
Epoch 54/100
50/50 [=====] - 2s 36ms/step - loss: 0.3018 - val_loss: 0.2781
Epoch 55/100
50/50 [=====] - 2s 35ms/step - loss: 0.3023 - val_loss: 0.2840
Epoch 56/100
50/50 [=====] - 2s 35ms/step - loss: 0.3032 - val_loss: 0.2829
Epoch 57/100
50/50 [=====] - 2s 36ms/step - loss: 0.2985 - val_loss: 0.2887
Epoch 58/100
50/50 [=====] - 2s 36ms/step - loss: 0.2995 - val_loss: 0.2790
Epoch 59/100
50/50 [=====] - 2s 35ms/step - loss: 0.3014 - val_loss: 0.2733
Epoch 60/100
50/50 [=====] - 2s 37ms/step - loss: 0.2982 - val_loss: 0.2834
Epoch 61/100
50/50 [=====] - 2s 35ms/step - loss: 0.3002 - val_loss: 0.2782
Epoch 62/100
50/50 [=====] - 2s 36ms/step - loss: 0.2955 - val_loss: 0.2711
Epoch 63/100
50/50 [=====] - 2s 36ms/step - loss: 0.2992 - val_loss: 0.2788
Epoch 64/100
50/50 [=====] - 2s 36ms/step - loss: 0.2961 - val_loss: 0.2697
Epoch 65/100
50/50 [=====] - 2s 38ms/step - loss: 0.2961 - val_loss: 0.2823
Epoch 66/100
50/50 [=====] - 2s 36ms/step - loss: 0.2973 - val_loss: 0.2784
Epoch 67/100
50/50 [=====] - 2s 35ms/step - loss: 0.2965 - val_loss: 0.2806
Epoch 68/100
50/50 [=====] - 2s 36ms/step - loss: 0.2941 - val_loss: 0.2716
Epoch 69/100
50/50 [=====] - 2s 37ms/step - loss: 0.2941 - val_loss: 0.2778
Epoch 70/100
50/50 [=====] - 2s 36ms/step - loss: 0.2940 - val_loss: 0.2718
Epoch 71/100
50/50 [=====] - 2s 38ms/step - loss: 0.2950 - val_loss: 0.2743

Epoch 72/100
50/50 [=====] - 2s 36ms/step - loss: 0.2925 - val_loss: 0.2726
Epoch 73/100
50/50 [=====] - 2s 36ms/step - loss: 0.2934 - val_loss: 0.2796
Epoch 74/100
50/50 [=====] - 2s 36ms/step - loss: 0.2927 - val_loss: 0.2757
Epoch 75/100
50/50 [=====] - 2s 36ms/step - loss: 0.2937 - val_loss: 0.2749
Epoch 76/100
50/50 [=====] - 2s 36ms/step - loss: 0.2931 - val_loss: 0.2699
Epoch 77/100
50/50 [=====] - 2s 38ms/step - loss: 0.2931 - val_loss: 0.2718
Epoch 78/100
50/50 [=====] - 2s 37ms/step - loss: 0.2928 - val_loss: 0.2769
Epoch 79/100
50/50 [=====] - 2s 36ms/step - loss: 0.2948 - val_loss: 0.2738
Epoch 80/100
50/50 [=====] - 2s 38ms/step - loss: 0.2900 - val_loss: 0.2711
Epoch 81/100
50/50 [=====] - 2s 36ms/step - loss: 0.2906 - val_loss: 0.2810
Epoch 82/100
50/50 [=====] - 2s 38ms/step - loss: 0.2936 - val_loss: 0.2707
Epoch 83/100
50/50 [=====] - 2s 36ms/step - loss: 0.2922 - val_loss: 0.2758
Epoch 84/100
50/50 [=====] - 2s 38ms/step - loss: 0.3095 - val_loss: 0.2756
Epoch 85/100
50/50 [=====] - 2s 36ms/step - loss: 0.2940 - val_loss: 0.2867
Epoch 86/100
50/50 [=====] - 2s 37ms/step - loss: 0.2904 - val_loss: 0.2826
Epoch 87/100
50/50 [=====] - 2s 37ms/step - loss: 0.2893 - val_loss: 0.2785
Epoch 88/100
50/50 [=====] - 2s 36ms/step - loss: 0.2912 - val_loss: 0.2760
Epoch 89/100
50/50 [=====] - 2s 35ms/step - loss: 0.2886 - val_loss: 0.2795
Epoch 90/100
50/50 [=====] - 2s 38ms/step - loss: 0.2932 - val_loss: 0.2750
Epoch 91/100
50/50 [=====] - 2s 37ms/step - loss: 0.2895 - val_loss: 0.2779
Epoch 92/100
50/50 [=====] - 2s 36ms/step - loss: 0.2889 - val_loss: 0.2863
Epoch 93/100
50/50 [=====] - 2s 36ms/step - loss: 0.2888 - val_loss: 0.2810
Epoch 94/100
50/50 [=====] - 2s 36ms/step - loss: 0.2853 - val_loss: 0.2798
Epoch 95/100
50/50 [=====] - 2s 37ms/step - loss: 0.2881 - val_loss: 0.2732

Epoch 96/100

50/50 [=====] - 2s 37ms/step - loss: 0.2892 - val_loss: 0.2780

Epoch 97/100

50/50 [=====] - 2s 36ms/step - loss: 0.2854 - val_loss: 0.2826

Epoch 98/100

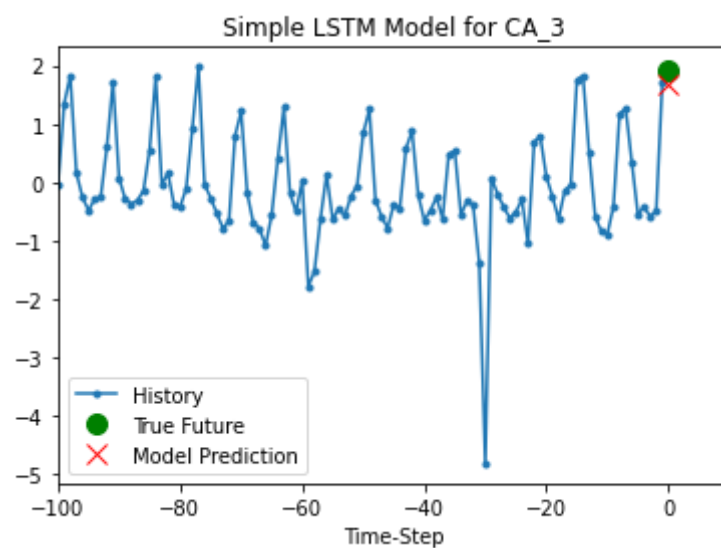
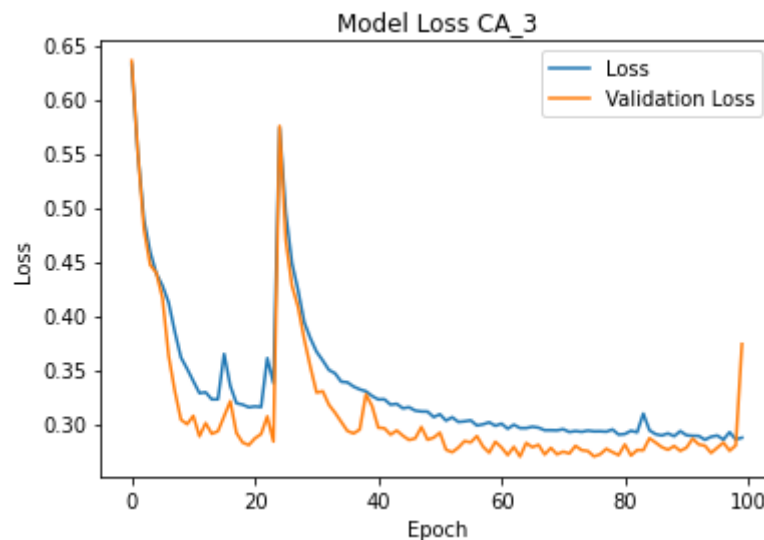
50/50 [=====] - 2s 37ms/step - loss: 0.2923 - val_loss: 0.2751

Epoch 99/100

50/50 [=====] - 2s 36ms/step - loss: 0.2856 - val_loss: 0.2801

Epoch 100/100

50/50 [=====] - 2s 36ms/step - loss: 0.2872 - val_loss: 0.3738



CA_3 - True Future: 8164

CA_3 - Model Prediction: 7834

CA_3 - Model Percentage Error: 4.04%

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Training Model for CA_4...

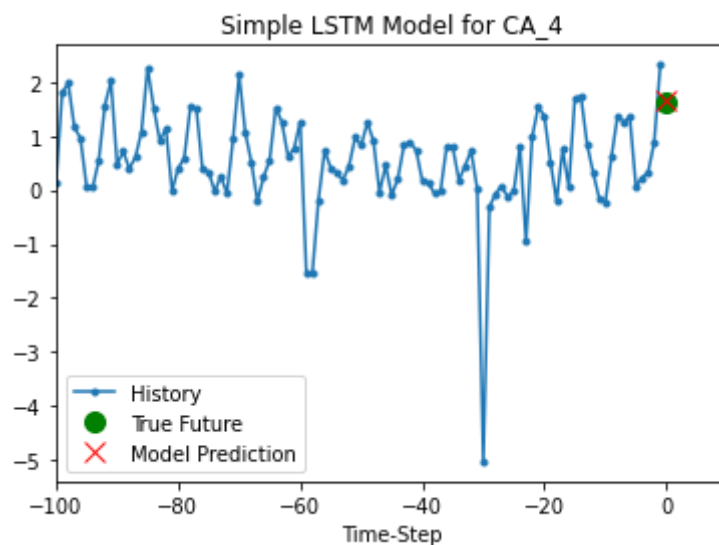
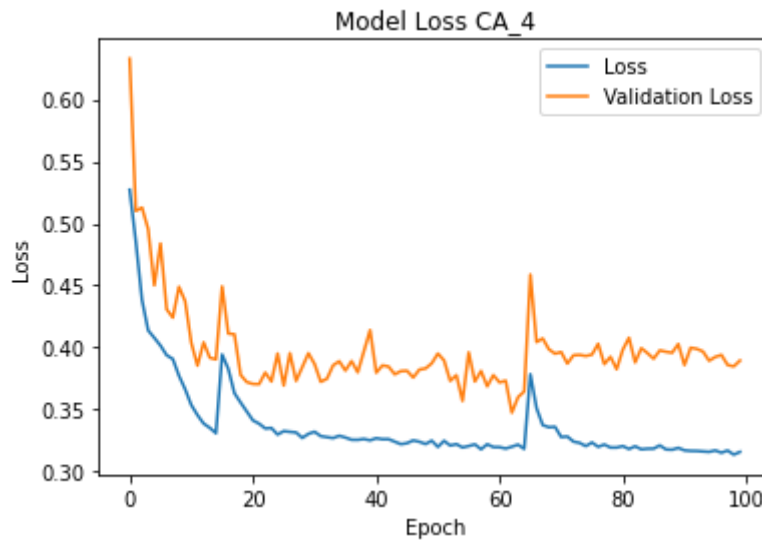
Epoch 1/100
50/50 [=====] - 2s 44ms/step - loss: 0.5272 - val_loss: 0.6329
Epoch 2/100
50/50 [=====] - 2s 36ms/step - loss: 0.4855 - val_loss: 0.5101
Epoch 3/100
50/50 [=====] - 2s 37ms/step - loss: 0.4383 - val_loss: 0.5128
Epoch 4/100
50/50 [=====] - 2s 36ms/step - loss: 0.4138 - val_loss: 0.4955
Epoch 5/100
50/50 [=====] - 2s 35ms/step - loss: 0.4077 - val_loss: 0.4501
Epoch 6/100
50/50 [=====] - 2s 36ms/step - loss: 0.4015 - val_loss: 0.4838
Epoch 7/100
50/50 [=====] - 2s 35ms/step - loss: 0.3937 - val_loss: 0.4308
Epoch 8/100
50/50 [=====] - 2s 36ms/step - loss: 0.3907 - val_loss: 0.4241
Epoch 9/100
50/50 [=====] - 2s 36ms/step - loss: 0.3772 - val_loss: 0.4489
Epoch 10/100
50/50 [=====] - 2s 37ms/step - loss: 0.3663 - val_loss: 0.4373
Epoch 11/100
50/50 [=====] - 2s 36ms/step - loss: 0.3535 - val_loss: 0.4037
Epoch 12/100
50/50 [=====] - 2s 36ms/step - loss: 0.3455 - val_loss: 0.3854
Epoch 13/100
50/50 [=====] - 2s 36ms/step - loss: 0.3386 - val_loss: 0.4041
Epoch 14/100
50/50 [=====] - 2s 37ms/step - loss: 0.3352 - val_loss: 0.3917
Epoch 15/100
50/50 [=====] - 2s 36ms/step - loss: 0.3309 - val_loss: 0.3904
Epoch 16/100
50/50 [=====] - 2s 36ms/step - loss: 0.3943 - val_loss: 0.4492
Epoch 17/100
50/50 [=====] - 2s 36ms/step - loss: 0.3827 - val_loss: 0.4112
Epoch 18/100
50/50 [=====] - 2s 36ms/step - loss: 0.3631 - val_loss: 0.4106
Epoch 19/100
50/50 [=====] - 2s 36ms/step - loss: 0.3556 - val_loss: 0.3778
Epoch 20/100
50/50 [=====] - 2s 36ms/step - loss: 0.3484 - val_loss: 0.3721
Epoch 21/100
50/50 [=====] - 2s 37ms/step - loss: 0.3412 - val_loss: 0.3706
Epoch 22/100
50/50 [=====] - 2s 36ms/step - loss: 0.3385 - val_loss: 0.3704
Epoch 23/100
50/50 [=====] - 2s 36ms/step - loss: 0.3347 - val_loss: 0.3798
Epoch 24/100

50/50 [=====] - 2s 37ms/step - loss: 0.3351 - val_loss: 0.3726
Epoch 25/100
50/50 [=====] - 2s 37ms/step - loss: 0.3297 - val_loss: 0.3951
Epoch 26/100
50/50 [=====] - 2s 36ms/step - loss: 0.3325 - val_loss: 0.3693
Epoch 27/100
50/50 [=====] - 2s 37ms/step - loss: 0.3319 - val_loss: 0.3954
Epoch 28/100
50/50 [=====] - 2s 36ms/step - loss: 0.3315 - val_loss: 0.3730
Epoch 29/100
50/50 [=====] - 2s 37ms/step - loss: 0.3270 - val_loss: 0.3841
Epoch 30/100
50/50 [=====] - 2s 37ms/step - loss: 0.3303 - val_loss: 0.3953
Epoch 31/100
50/50 [=====] - 2s 36ms/step - loss: 0.3320 - val_loss: 0.3866
Epoch 32/100
50/50 [=====] - 2s 36ms/step - loss: 0.3285 - val_loss: 0.3723
Epoch 33/100
50/50 [=====] - 2s 38ms/step - loss: 0.3277 - val_loss: 0.3747
Epoch 34/100
50/50 [=====] - 2s 39ms/step - loss: 0.3269 - val_loss: 0.3855
Epoch 35/100
50/50 [=====] - 2s 37ms/step - loss: 0.3288 - val_loss: 0.3889
Epoch 36/100
50/50 [=====] - 2s 36ms/step - loss: 0.3274 - val_loss: 0.3813
Epoch 37/100
50/50 [=====] - 2s 37ms/step - loss: 0.3256 - val_loss: 0.3890
Epoch 38/100
50/50 [=====] - 2s 36ms/step - loss: 0.3255 - val_loss: 0.3799
Epoch 39/100
50/50 [=====] - 2s 35ms/step - loss: 0.3262 - val_loss: 0.3969
Epoch 40/100
50/50 [=====] - 2s 36ms/step - loss: 0.3251 - val_loss: 0.4140
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.3268 - val_loss: 0.3796
Epoch 42/100
50/50 [=====] - 2s 36ms/step - loss: 0.3260 - val_loss: 0.3855
Epoch 43/100
50/50 [=====] - 2s 36ms/step - loss: 0.3261 - val_loss: 0.3846
Epoch 44/100
50/50 [=====] - 2s 37ms/step - loss: 0.3240 - val_loss: 0.3783
Epoch 45/100
50/50 [=====] - 2s 36ms/step - loss: 0.3220 - val_loss: 0.3809
Epoch 46/100
50/50 [=====] - 2s 37ms/step - loss: 0.3228 - val_loss: 0.3812
Epoch 47/100
50/50 [=====] - 2s 37ms/step - loss: 0.3250 - val_loss: 0.3758
Epoch 48/100

50/50 [=====] - 2s 37ms/step - loss: 0.3239 - val_loss: 0.3821
Epoch 49/100
50/50 [=====] - 2s 38ms/step - loss: 0.3221 - val_loss: 0.3831
Epoch 50/100
50/50 [=====] - 2s 40ms/step - loss: 0.3248 - val_loss: 0.3872
Epoch 51/100
50/50 [=====] - 2s 37ms/step - loss: 0.3198 - val_loss: 0.3951
Epoch 52/100
50/50 [=====] - 2s 36ms/step - loss: 0.3247 - val_loss: 0.3895
Epoch 53/100
50/50 [=====] - 2s 36ms/step - loss: 0.3209 - val_loss: 0.3730
Epoch 54/100
50/50 [=====] - 2s 38ms/step - loss: 0.3220 - val_loss: 0.3776
Epoch 55/100
50/50 [=====] - 2s 41ms/step - loss: 0.3193 - val_loss: 0.3569
Epoch 56/100
50/50 [=====] - 2s 37ms/step - loss: 0.3205 - val_loss: 0.3961
Epoch 57/100
50/50 [=====] - 2s 38ms/step - loss: 0.3219 - val_loss: 0.3725
Epoch 58/100
50/50 [=====] - 2s 36ms/step - loss: 0.3179 - val_loss: 0.3810
Epoch 59/100
50/50 [=====] - 2s 37ms/step - loss: 0.3219 - val_loss: 0.3687
Epoch 60/100
50/50 [=====] - 2s 38ms/step - loss: 0.3197 - val_loss: 0.3777
Epoch 61/100
50/50 [=====] - 2s 38ms/step - loss: 0.3196 - val_loss: 0.3718
Epoch 62/100
50/50 [=====] - 2s 37ms/step - loss: 0.3185 - val_loss: 0.3732
Epoch 63/100
50/50 [=====] - 2s 36ms/step - loss: 0.3199 - val_loss: 0.3474
Epoch 64/100
50/50 [=====] - 2s 37ms/step - loss: 0.3216 - val_loss: 0.3599
Epoch 65/100
50/50 [=====] - 2s 38ms/step - loss: 0.3182 - val_loss: 0.3645
Epoch 66/100
50/50 [=====] - 2s 36ms/step - loss: 0.3784 - val_loss: 0.4588
Epoch 67/100
50/50 [=====] - 2s 37ms/step - loss: 0.3512 - val_loss: 0.4043
Epoch 68/100
50/50 [=====] - 2s 38ms/step - loss: 0.3374 - val_loss: 0.4072
Epoch 69/100
50/50 [=====] - 2s 37ms/step - loss: 0.3357 - val_loss: 0.3986
Epoch 70/100
50/50 [=====] - 2s 37ms/step - loss: 0.3360 - val_loss: 0.3950
Epoch 71/100
50/50 [=====] - 2s 38ms/step - loss: 0.3278 - val_loss: 0.3963
Epoch 72/100

50/50 [=====] - 2s 37ms/step - loss: 0.3282 - val_loss: 0.3870
Epoch 73/100
50/50 [=====] - 2s 39ms/step - loss: 0.3241 - val_loss: 0.3937
Epoch 74/100
50/50 [=====] - 2s 37ms/step - loss: 0.3230 - val_loss: 0.3940
Epoch 75/100
50/50 [=====] - 2s 37ms/step - loss: 0.3205 - val_loss: 0.3931
Epoch 76/100
50/50 [=====] - 2s 38ms/step - loss: 0.3233 - val_loss: 0.3942
Epoch 77/100
50/50 [=====] - 2s 38ms/step - loss: 0.3199 - val_loss: 0.4029
Epoch 78/100
50/50 [=====] - 2s 40ms/step - loss: 0.3217 - val_loss: 0.3865
Epoch 79/100
50/50 [=====] - 2s 38ms/step - loss: 0.3193 - val_loss: 0.3925
Epoch 80/100
50/50 [=====] - 2s 37ms/step - loss: 0.3193 - val_loss: 0.3825
Epoch 81/100
50/50 [=====] - 2s 39ms/step - loss: 0.3204 - val_loss: 0.3982
Epoch 82/100
50/50 [=====] - 2s 37ms/step - loss: 0.3181 - val_loss: 0.4078
Epoch 83/100
50/50 [=====] - 2s 37ms/step - loss: 0.3203 - val_loss: 0.3879
Epoch 84/100
50/50 [=====] - 2s 36ms/step - loss: 0.3179 - val_loss: 0.3994
Epoch 85/100
50/50 [=====] - 2s 36ms/step - loss: 0.3183 - val_loss: 0.3954
Epoch 86/100
50/50 [=====] - 2s 37ms/step - loss: 0.3184 - val_loss: 0.3909
Epoch 87/100
50/50 [=====] - 2s 35ms/step - loss: 0.3210 - val_loss: 0.3976
Epoch 88/100
50/50 [=====] - 2s 36ms/step - loss: 0.3178 - val_loss: 0.3965
Epoch 89/100
50/50 [=====] - 2s 37ms/step - loss: 0.3175 - val_loss: 0.3957
Epoch 90/100
50/50 [=====] - 2s 37ms/step - loss: 0.3190 - val_loss: 0.4028
Epoch 91/100
50/50 [=====] - 2s 37ms/step - loss: 0.3170 - val_loss: 0.3858
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.3166 - val_loss: 0.3997
Epoch 93/100
50/50 [=====] - 2s 36ms/step - loss: 0.3165 - val_loss: 0.3989
Epoch 94/100
50/50 [=====] - 2s 37ms/step - loss: 0.3162 - val_loss: 0.3967
Epoch 95/100
50/50 [=====] - 2s 37ms/step - loss: 0.3158 - val_loss: 0.3893
Epoch 96/100

50/50 [=====] - 2s 36ms/step - loss: 0.3169 - val_loss: 0.3923
 Epoch 97/100
 50/50 [=====] - 2s 36ms/step - loss: 0.3151 - val_loss: 0.3940
 Epoch 98/100
 50/50 [=====] - 2s 37ms/step - loss: 0.3169 - val_loss: 0.3859
 Epoch 99/100
 50/50 [=====] - 2s 36ms/step - loss: 0.3136 - val_loss: 0.3847
 Epoch 100/100
 50/50 [=====] - 2s 36ms/step - loss: 0.3157 - val_loss: 0.3894



CA_4 - True Future: 2787
 CA_4 - Model Prediction: 2809
 CA_4 - Model Percentage Error: 0.79%

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Training Model for TX_1...

Epoch 1/100
50/50 [=====] - 2s 43ms/step - loss: 0.7044 - val_loss: 0.6910
Epoch 2/100
50/50 [=====] - 2s 37ms/step - loss: 0.6572 - val_loss: 0.6221
Epoch 3/100
50/50 [=====] - 2s 36ms/step - loss: 0.6239 - val_loss: 0.6090
Epoch 4/100
50/50 [=====] - 2s 36ms/step - loss: 0.5983 - val_loss: 0.5705
Epoch 5/100
50/50 [=====] - 2s 37ms/step - loss: 0.5760 - val_loss: 0.5590
Epoch 6/100
50/50 [=====] - 2s 37ms/step - loss: 0.5575 - val_loss: 0.4839
Epoch 7/100
50/50 [=====] - 2s 36ms/step - loss: 0.5400 - val_loss: 0.4522
Epoch 8/100
50/50 [=====] - 2s 38ms/step - loss: 0.5265 - val_loss: 0.4581
Epoch 9/100
50/50 [=====] - 2s 37ms/step - loss: 0.5104 - val_loss: 0.4215
Epoch 10/100
50/50 [=====] - 2s 36ms/step - loss: 0.4906 - val_loss: 0.4333
Epoch 11/100
50/50 [=====] - 2s 37ms/step - loss: 0.4650 - val_loss: 0.4151
Epoch 12/100
50/50 [=====] - 2s 36ms/step - loss: 0.4468 - val_loss: 0.3677
Epoch 13/100
50/50 [=====] - 2s 36ms/step - loss: 0.4304 - val_loss: 0.3577
Epoch 14/100
50/50 [=====] - 2s 38ms/step - loss: 0.4122 - val_loss: 0.3225
Epoch 15/100
50/50 [=====] - 2s 38ms/step - loss: 0.4013 - val_loss: 0.3082
Epoch 16/100
50/50 [=====] - 2s 36ms/step - loss: 0.3912 - val_loss: 0.2899
Epoch 17/100
50/50 [=====] - 2s 37ms/step - loss: 0.3912 - val_loss: 0.2833
Epoch 18/100
50/50 [=====] - 2s 37ms/step - loss: 0.3851 - val_loss: 0.2826
Epoch 19/100
50/50 [=====] - 2s 36ms/step - loss: 0.3815 - val_loss: 0.2886
Epoch 20/100
50/50 [=====] - 2s 37ms/step - loss: 0.3833 - val_loss: 0.2870
Epoch 21/100
50/50 [=====] - 2s 36ms/step - loss: 0.3742 - val_loss: 0.2796
Epoch 22/100
50/50 [=====] - 2s 37ms/step - loss: 0.7776 - val_loss: 0.7428
Epoch 23/100
50/50 [=====] - 2s 37ms/step - loss: 0.6669 - val_loss: 0.7273
Epoch 24/100
50/50 [=====] - 2s 38ms/step - loss: 0.6451 - val_loss: 0.6425

Epoch 25/100
50/50 [=====] - 2s 36ms/step - loss: 0.6311 - val_loss: 0.6408
Epoch 26/100
50/50 [=====] - 2s 36ms/step - loss: 0.6262 - val_loss: 0.7522
Epoch 27/100
50/50 [=====] - 2s 37ms/step - loss: 0.6824 - val_loss: 0.6495
Epoch 28/100
50/50 [=====] - 2s 37ms/step - loss: 0.6543 - val_loss: 0.6356
Epoch 29/100
50/50 [=====] - 2s 36ms/step - loss: 0.6525 - val_loss: 0.6319
Epoch 30/100
50/50 [=====] - 2s 36ms/step - loss: 0.6438 - val_loss: 0.6209
Epoch 31/100
50/50 [=====] - 2s 38ms/step - loss: 0.6446 - val_loss: 0.6146
Epoch 32/100
50/50 [=====] - 2s 38ms/step - loss: 0.6425 - val_loss: 0.6049
Epoch 33/100
50/50 [=====] - 2s 36ms/step - loss: 0.6361 - val_loss: 0.6017
Epoch 34/100
50/50 [=====] - 2s 36ms/step - loss: 0.6285 - val_loss: 0.6425
Epoch 35/100
50/50 [=====] - 2s 37ms/step - loss: 0.6242 - val_loss: 0.6121
Epoch 36/100
50/50 [=====] - 2s 38ms/step - loss: 0.6209 - val_loss: 0.6105
Epoch 37/100
50/50 [=====] - 2s 37ms/step - loss: 0.6180 - val_loss: 0.6205
Epoch 38/100
50/50 [=====] - 2s 36ms/step - loss: 0.6087 - val_loss: 0.6051
Epoch 39/100
50/50 [=====] - 2s 36ms/step - loss: 0.6109 - val_loss: 0.5953
Epoch 40/100
50/50 [=====] - 2s 37ms/step - loss: 0.6059 - val_loss: 0.5883
Epoch 41/100
50/50 [=====] - 2s 36ms/step - loss: 0.6041 - val_loss: 0.6058
Epoch 42/100
50/50 [=====] - 2s 36ms/step - loss: 0.6133 - val_loss: 0.6199
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.6080 - val_loss: 0.5843
Epoch 44/100
50/50 [=====] - 2s 38ms/step - loss: 0.5921 - val_loss: 0.6013
Epoch 45/100
50/50 [=====] - 2s 37ms/step - loss: 0.5887 - val_loss: 0.5635
Epoch 46/100
50/50 [=====] - 2s 36ms/step - loss: 0.5866 - val_loss: 0.5657
Epoch 47/100
50/50 [=====] - 2s 36ms/step - loss: 0.5790 - val_loss: 0.5667
Epoch 48/100
50/50 [=====] - 2s 37ms/step - loss: 0.5801 - val_loss: 0.6049

Epoch 49/100
50/50 [=====] - 2s 36ms/step - loss: 0.5819 - val_loss: 0.5607
Epoch 50/100
50/50 [=====] - 2s 36ms/step - loss: 0.5823 - val_loss: 0.5794
Epoch 51/100
50/50 [=====] - 2s 36ms/step - loss: 0.5768 - val_loss: 0.5429
Epoch 52/100
50/50 [=====] - 2s 37ms/step - loss: 0.5738 - val_loss: 0.5399
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.5736 - val_loss: 0.5495
Epoch 54/100
50/50 [=====] - 2s 36ms/step - loss: 0.5687 - val_loss: 0.5356
Epoch 55/100
50/50 [=====] - 2s 37ms/step - loss: 0.5739 - val_loss: 0.5421
Epoch 56/100
50/50 [=====] - 2s 37ms/step - loss: 0.5718 - val_loss: 0.5535
Epoch 57/100
50/50 [=====] - 2s 37ms/step - loss: 0.5677 - val_loss: 0.5472
Epoch 58/100
50/50 [=====] - 2s 37ms/step - loss: 0.5668 - val_loss: 0.5351
Epoch 59/100
50/50 [=====] - 2s 37ms/step - loss: 0.5821 - val_loss: 0.6020
Epoch 60/100
50/50 [=====] - 2s 38ms/step - loss: 0.5856 - val_loss: 0.5536
Epoch 61/100
50/50 [=====] - 2s 37ms/step - loss: 0.5787 - val_loss: 0.5625
Epoch 62/100
50/50 [=====] - 2s 37ms/step - loss: 0.5790 - val_loss: 0.5381
Epoch 63/100
50/50 [=====] - 2s 37ms/step - loss: 0.5681 - val_loss: 0.5274
Epoch 64/100
50/50 [=====] - 2s 36ms/step - loss: 0.5710 - val_loss: 0.5076
Epoch 65/100
50/50 [=====] - 2s 40ms/step - loss: 0.5704 - val_loss: 0.4782
Epoch 66/100
50/50 [=====] - 2s 36ms/step - loss: 0.5646 - val_loss: 0.5010
Epoch 67/100
50/50 [=====] - 2s 38ms/step - loss: 0.5630 - val_loss: 0.4877
Epoch 68/100
50/50 [=====] - 2s 37ms/step - loss: 0.5620 - val_loss: 0.4913
Epoch 69/100
50/50 [=====] - 2s 38ms/step - loss: 0.5536 - val_loss: 0.4994
Epoch 70/100
50/50 [=====] - 2s 37ms/step - loss: 0.5536 - val_loss: 0.4885
Epoch 71/100
50/50 [=====] - 2s 39ms/step - loss: 0.5564 - val_loss: 0.4877
Epoch 72/100
50/50 [=====] - 2s 36ms/step - loss: 0.5573 - val_loss: 0.5003

Epoch 73/100
50/50 [=====] - 2s 39ms/step - loss: 0.5575 - val_loss: 0.4843
Epoch 74/100
50/50 [=====] - 2s 39ms/step - loss: 0.5548 - val_loss: 0.4730
Epoch 75/100
50/50 [=====] - 2s 38ms/step - loss: 0.5522 - val_loss: 0.4966
Epoch 76/100
50/50 [=====] - 2s 37ms/step - loss: 0.5484 - val_loss: 0.4662
Epoch 77/100
50/50 [=====] - 2s 37ms/step - loss: 0.5522 - val_loss: 0.4885
Epoch 78/100
50/50 [=====] - 2s 36ms/step - loss: 0.5879 - val_loss: 0.6517
Epoch 79/100
50/50 [=====] - 2s 37ms/step - loss: 0.6326 - val_loss: 0.6185
Epoch 80/100
50/50 [=====] - 2s 37ms/step - loss: 0.6188 - val_loss: 0.6028
Epoch 81/100
50/50 [=====] - 2s 36ms/step - loss: 0.6122 - val_loss: 0.6117
Epoch 82/100
50/50 [=====] - 2s 37ms/step - loss: 0.5981 - val_loss: 0.6152
Epoch 83/100
50/50 [=====] - 2s 36ms/step - loss: 0.5939 - val_loss: 0.6066
Epoch 84/100
50/50 [=====] - 2s 36ms/step - loss: 0.5998 - val_loss: 0.5639
Epoch 85/100
50/50 [=====] - 2s 37ms/step - loss: 0.5928 - val_loss: 0.5828
Epoch 86/100
50/50 [=====] - 2s 36ms/step - loss: 0.5907 - val_loss: 0.5966
Epoch 87/100
50/50 [=====] - 2s 38ms/step - loss: 0.5900 - val_loss: 0.5827
Epoch 88/100
50/50 [=====] - 2s 38ms/step - loss: 0.5797 - val_loss: 0.5812
Epoch 89/100
50/50 [=====] - 2s 36ms/step - loss: 0.5872 - val_loss: 0.5573
Epoch 90/100
50/50 [=====] - 2s 38ms/step - loss: 0.5839 - val_loss: 0.5570
Epoch 91/100
50/50 [=====] - 2s 37ms/step - loss: 0.5831 - val_loss: 0.5505
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.5769 - val_loss: 0.5448
Epoch 93/100
50/50 [=====] - 2s 36ms/step - loss: 0.5816 - val_loss: 0.5350
Epoch 94/100
50/50 [=====] - 2s 38ms/step - loss: 0.5752 - val_loss: 0.5499
Epoch 95/100
50/50 [=====] - 2s 36ms/step - loss: 0.5747 - val_loss: 0.5234
Epoch 96/100
50/50 [=====] - 2s 38ms/step - loss: 0.5718 - val_loss: 0.5392

Epoch 97/100

50/50 [=====] - 2s 37ms/step - loss: 0.5759 - val_loss: 0.5376

Epoch 98/100

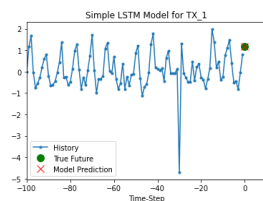
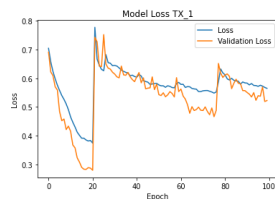
50/50 [=====] - 2s 36ms/step - loss: 0.5725 - val_loss: 0.5695

Epoch 99/100

50/50 [=====] - 2s 37ms/step - loss: 0.5682 - val_loss: 0.5191

Epoch 100/100

50/50 [=====] - 2s 36ms/step - loss: 0.5649 - val_loss: 0.5225



TX_1 - True Future: 3639

TX_1 - Model Prediction: 3638

TX_1 - Model Percentage Error: 0.03%

=====
=====

Training Model for TX_2...

Epoch 1/100

50/50 [=====] - 2s 41ms/step - loss: 0.7192 - val_loss: 0.6973

Epoch 2/100

50/50 [=====] - 2s 36ms/step - loss: 0.6939 - val_loss: 0.6334

Epoch 3/100

50/50 [=====] - 2s 37ms/step - loss: 0.6361 - val_loss: 0.5539

Epoch 4/100

50/50 [=====] - 2s 37ms/step - loss: 0.5519 - val_loss: 0.4692

Epoch 5/100

50/50 [=====] - 2s 36ms/step - loss: 0.4816 - val_loss: 0.4042

Epoch 6/100

50/50 [=====] - 2s 37ms/step - loss: 0.4238 - val_loss: 0.3408

Epoch 7/100

50/50 [=====] - 2s 38ms/step - loss: 0.3940 - val_loss: 0.3232

Epoch 8/100

50/50 [=====] - 2s 41ms/step - loss: 0.3731 - val_loss: 0.3112

Epoch 9/100

50/50 [=====] - 2s 37ms/step - loss: 0.3680 - val_loss: 0.3399

Epoch 10/100

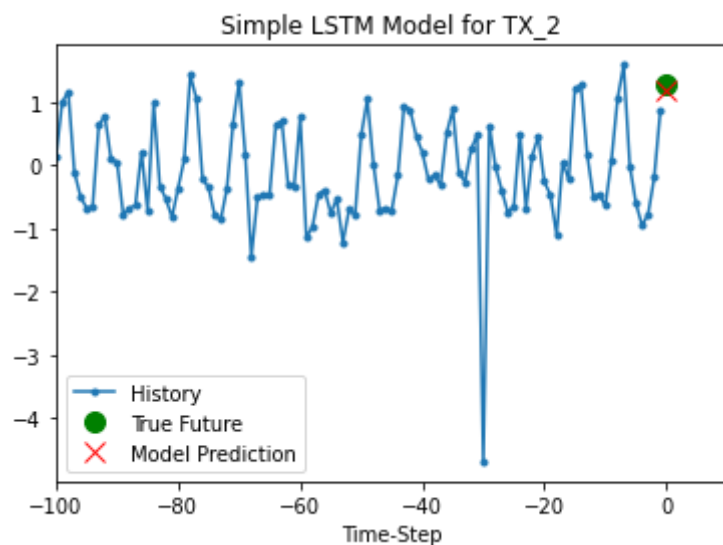
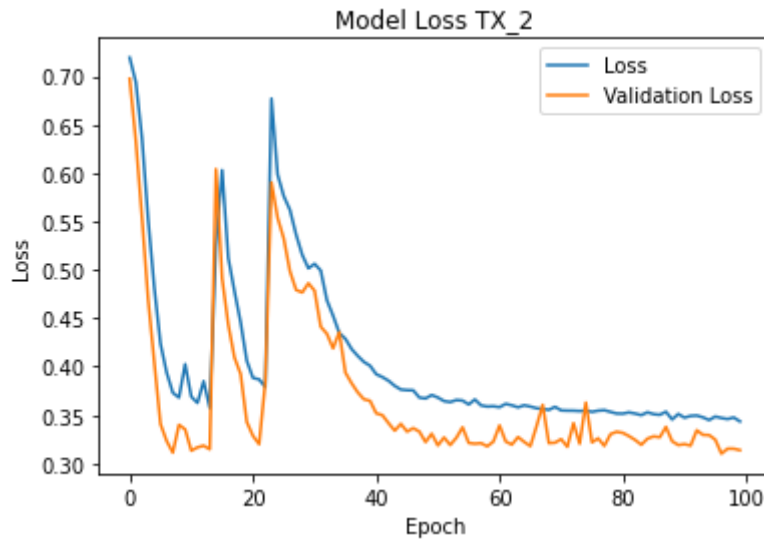
50/50 [=====] - 2s 37ms/step - loss: 0.4026 - val_loss: 0.3352

Epoch 11/100
50/50 [=====] - 2s 37ms/step - loss: 0.3690 - val_loss: 0.3133
Epoch 12/100
50/50 [=====] - 2s 39ms/step - loss: 0.3626 - val_loss: 0.3166
Epoch 13/100
50/50 [=====] - 2s 36ms/step - loss: 0.3849 - val_loss: 0.3184
Epoch 14/100
50/50 [=====] - 2s 37ms/step - loss: 0.3573 - val_loss: 0.3147
Epoch 15/100
50/50 [=====] - 2s 36ms/step - loss: 0.5250 - val_loss: 0.6040
Epoch 16/100
50/50 [=====] - 2s 39ms/step - loss: 0.6030 - val_loss: 0.4913
Epoch 17/100
50/50 [=====] - 2s 47ms/step - loss: 0.5123 - val_loss: 0.4435
Epoch 18/100
50/50 [=====] - 3s 51ms/step - loss: 0.4780 - val_loss: 0.4095
Epoch 19/100
50/50 [=====] - 3s 51ms/step - loss: 0.4459 - val_loss: 0.3924
Epoch 20/100
50/50 [=====] - 2s 43ms/step - loss: 0.4061 - val_loss: 0.3430
Epoch 21/100
50/50 [=====] - 2s 36ms/step - loss: 0.3884 - val_loss: 0.3286
Epoch 22/100
50/50 [=====] - 2s 36ms/step - loss: 0.3869 - val_loss: 0.3199
Epoch 23/100
50/50 [=====] - 2s 37ms/step - loss: 0.3790 - val_loss: 0.3836
Epoch 24/100
50/50 [=====] - 2s 36ms/step - loss: 0.6768 - val_loss: 0.5902
Epoch 25/100
50/50 [=====] - 2s 36ms/step - loss: 0.5985 - val_loss: 0.5538
Epoch 26/100
50/50 [=====] - 2s 38ms/step - loss: 0.5761 - val_loss: 0.5323
Epoch 27/100
50/50 [=====] - 2s 36ms/step - loss: 0.5619 - val_loss: 0.4987
Epoch 28/100
50/50 [=====] - 2s 38ms/step - loss: 0.5364 - val_loss: 0.4792
Epoch 29/100
50/50 [=====] - 2s 37ms/step - loss: 0.5154 - val_loss: 0.4766
Epoch 30/100
50/50 [=====] - 2s 39ms/step - loss: 0.5015 - val_loss: 0.4861
Epoch 31/100
50/50 [=====] - 2s 36ms/step - loss: 0.5062 - val_loss: 0.4784
Epoch 32/100
50/50 [=====] - 2s 36ms/step - loss: 0.4992 - val_loss: 0.4412
Epoch 33/100
50/50 [=====] - 2s 36ms/step - loss: 0.4686 - val_loss: 0.4339
Epoch 34/100
50/50 [=====] - 2s 37ms/step - loss: 0.4526 - val_loss: 0.4189

Epoch 35/100
50/50 [=====] - 2s 38ms/step - loss: 0.4348 - val_loss: 0.4357
Epoch 36/100
50/50 [=====] - 2s 38ms/step - loss: 0.4288 - val_loss: 0.3939
Epoch 37/100
50/50 [=====] - 2s 39ms/step - loss: 0.4182 - val_loss: 0.3829
Epoch 38/100
50/50 [=====] - 2s 36ms/step - loss: 0.4111 - val_loss: 0.3735
Epoch 39/100
50/50 [=====] - 2s 36ms/step - loss: 0.4049 - val_loss: 0.3664
Epoch 40/100
50/50 [=====] - 2s 38ms/step - loss: 0.4009 - val_loss: 0.3647
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.3922 - val_loss: 0.3518
Epoch 42/100
50/50 [=====] - 2s 36ms/step - loss: 0.3892 - val_loss: 0.3499
Epoch 43/100
50/50 [=====] - 2s 36ms/step - loss: 0.3854 - val_loss: 0.3416
Epoch 44/100
50/50 [=====] - 2s 36ms/step - loss: 0.3802 - val_loss: 0.3339
Epoch 45/100
50/50 [=====] - 2s 36ms/step - loss: 0.3763 - val_loss: 0.3409
Epoch 46/100
50/50 [=====] - 2s 38ms/step - loss: 0.3757 - val_loss: 0.3329
Epoch 47/100
50/50 [=====] - 2s 36ms/step - loss: 0.3756 - val_loss: 0.3365
Epoch 48/100
50/50 [=====] - 2s 38ms/step - loss: 0.3680 - val_loss: 0.3329
Epoch 49/100
50/50 [=====] - 2s 37ms/step - loss: 0.3672 - val_loss: 0.3221
Epoch 50/100
50/50 [=====] - 2s 36ms/step - loss: 0.3707 - val_loss: 0.3308
Epoch 51/100
50/50 [=====] - 2s 39ms/step - loss: 0.3681 - val_loss: 0.3186
Epoch 52/100
50/50 [=====] - 2s 40ms/step - loss: 0.3644 - val_loss: 0.3269
Epoch 53/100
50/50 [=====] - 2s 36ms/step - loss: 0.3634 - val_loss: 0.3191
Epoch 54/100
50/50 [=====] - 2s 38ms/step - loss: 0.3655 - val_loss: 0.3266
Epoch 55/100
50/50 [=====] - 2s 37ms/step - loss: 0.3650 - val_loss: 0.3373
Epoch 56/100
50/50 [=====] - 2s 39ms/step - loss: 0.3610 - val_loss: 0.3212
Epoch 57/100
50/50 [=====] - 2s 39ms/step - loss: 0.3661 - val_loss: 0.3204
Epoch 58/100
50/50 [=====] - 2s 36ms/step - loss: 0.3600 - val_loss: 0.3210

Epoch 59/100
50/50 [=====] - 2s 37ms/step - loss: 0.3588 - val_loss: 0.3177
Epoch 60/100
50/50 [=====] - 2s 35ms/step - loss: 0.3591 - val_loss: 0.3225
Epoch 61/100
50/50 [=====] - 2s 35ms/step - loss: 0.3581 - val_loss: 0.3393
Epoch 62/100
50/50 [=====] - 2s 36ms/step - loss: 0.3616 - val_loss: 0.3227
Epoch 63/100
50/50 [=====] - 2s 36ms/step - loss: 0.3601 - val_loss: 0.3195
Epoch 64/100
50/50 [=====] - 2s 36ms/step - loss: 0.3580 - val_loss: 0.3273
Epoch 65/100
50/50 [=====] - 2s 36ms/step - loss: 0.3601 - val_loss: 0.3223
Epoch 66/100
50/50 [=====] - 2s 37ms/step - loss: 0.3588 - val_loss: 0.3179
Epoch 67/100
50/50 [=====] - 2s 36ms/step - loss: 0.3571 - val_loss: 0.3385
Epoch 68/100
50/50 [=====] - 2s 36ms/step - loss: 0.3563 - val_loss: 0.3605
Epoch 69/100
50/50 [=====] - 2s 37ms/step - loss: 0.3554 - val_loss: 0.3211
Epoch 70/100
50/50 [=====] - 2s 37ms/step - loss: 0.3585 - val_loss: 0.3215
Epoch 71/100
50/50 [=====] - 2s 40ms/step - loss: 0.3548 - val_loss: 0.3251
Epoch 72/100
50/50 [=====] - 2s 36ms/step - loss: 0.3546 - val_loss: 0.3173
Epoch 73/100
50/50 [=====] - 2s 36ms/step - loss: 0.3545 - val_loss: 0.3416
Epoch 74/100
50/50 [=====] - 2s 36ms/step - loss: 0.3542 - val_loss: 0.3204
Epoch 75/100
50/50 [=====] - 2s 35ms/step - loss: 0.3546 - val_loss: 0.3629
Epoch 76/100
50/50 [=====] - 2s 38ms/step - loss: 0.3533 - val_loss: 0.3218
Epoch 77/100
50/50 [=====] - 2s 37ms/step - loss: 0.3545 - val_loss: 0.3260
Epoch 78/100
50/50 [=====] - 2s 36ms/step - loss: 0.3550 - val_loss: 0.3182
Epoch 79/100
50/50 [=====] - 2s 36ms/step - loss: 0.3533 - val_loss: 0.3303
Epoch 80/100
50/50 [=====] - 2s 38ms/step - loss: 0.3516 - val_loss: 0.3327
Epoch 81/100
50/50 [=====] - 2s 38ms/step - loss: 0.3515 - val_loss: 0.3316
Epoch 82/100
50/50 [=====] - 2s 37ms/step - loss: 0.3528 - val_loss: 0.3283

Epoch 83/100
50/50 [=====] - 2s 36ms/step - loss: 0.3515 - val_loss: 0.3243
Epoch 84/100
50/50 [=====] - 2s 36ms/step - loss: 0.3499 - val_loss: 0.3193
Epoch 85/100
50/50 [=====] - 2s 35ms/step - loss: 0.3529 - val_loss: 0.3256
Epoch 86/100
50/50 [=====] - 2s 39ms/step - loss: 0.3510 - val_loss: 0.3280
Epoch 87/100
50/50 [=====] - 2s 36ms/step - loss: 0.3503 - val_loss: 0.3271
Epoch 88/100
50/50 [=====] - 2s 37ms/step - loss: 0.3534 - val_loss: 0.3378
Epoch 89/100
50/50 [=====] - 2s 37ms/step - loss: 0.3455 - val_loss: 0.3230
Epoch 90/100
50/50 [=====] - 2s 38ms/step - loss: 0.3511 - val_loss: 0.3190
Epoch 91/100
50/50 [=====] - 2s 36ms/step - loss: 0.3473 - val_loss: 0.3200
Epoch 92/100
50/50 [=====] - 2s 36ms/step - loss: 0.3491 - val_loss: 0.3185
Epoch 93/100
50/50 [=====] - 2s 38ms/step - loss: 0.3495 - val_loss: 0.3343
Epoch 94/100
50/50 [=====] - 2s 36ms/step - loss: 0.3476 - val_loss: 0.3296
Epoch 95/100
50/50 [=====] - 2s 37ms/step - loss: 0.3449 - val_loss: 0.3293
Epoch 96/100
50/50 [=====] - 2s 37ms/step - loss: 0.3485 - val_loss: 0.3247
Epoch 97/100
50/50 [=====] - 2s 36ms/step - loss: 0.3470 - val_loss: 0.3102
Epoch 98/100
50/50 [=====] - 2s 37ms/step - loss: 0.3459 - val_loss: 0.3153
Epoch 99/100
50/50 [=====] - 2s 38ms/step - loss: 0.3475 - val_loss: 0.3152
Epoch 100/100
50/50 [=====] - 2s 37ms/step - loss: 0.3434 - val_loss: 0.3137



TX_2 - True Future: 4794

TX_2 - Model Prediction: 4697

TX_2 - Model Percentage Error: 2.02%

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Training Model for TX_3...

Epoch 1/100

50/50 [=====] - 2s 46ms/step - loss: 0.6495 - val_loss: 0.6298

Epoch 2/100

50/50 [=====] - 2s 37ms/step - loss: 0.5892 - val_loss: 0.5951

Epoch 3/100

50/50 [=====] - 2s 36ms/step - loss: 0.5558 - val_loss: 0.5439

Epoch 4/100

50/50 [=====] - 2s 36ms/step - loss: 0.5259 - val_loss: 0.5379

Epoch 5/100

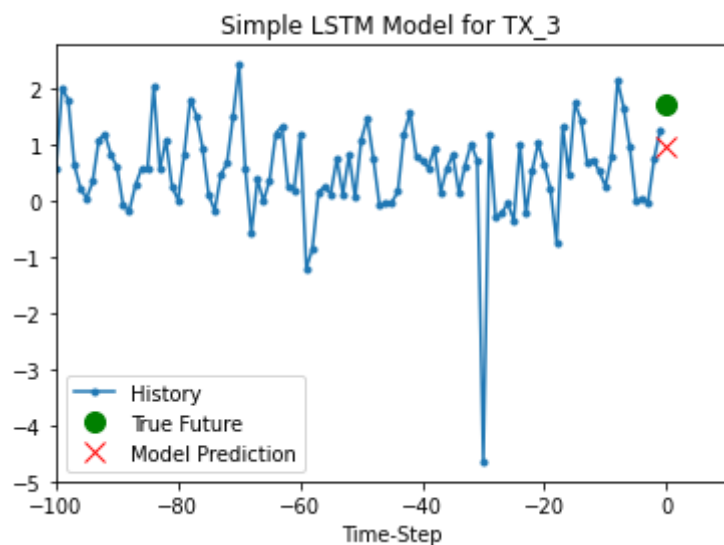
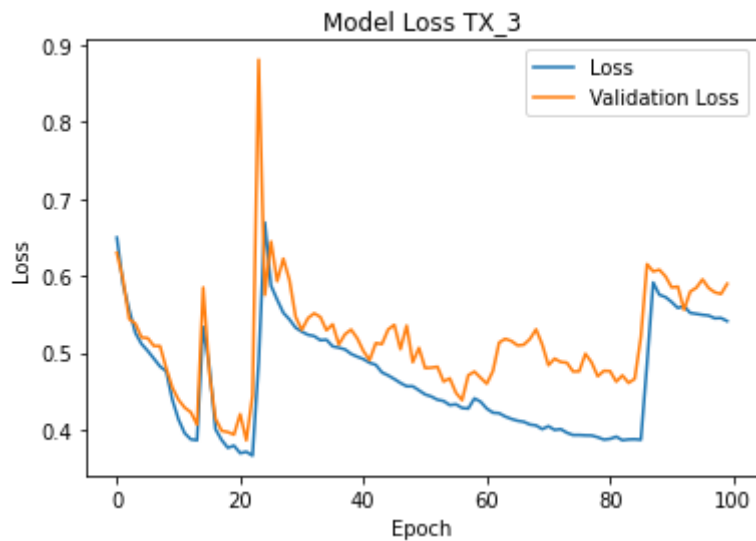
50/50 [=====] - 2s 35ms/step - loss: 0.5116 - val_loss: 0.5201

Epoch 6/100
50/50 [=====] - 2s 37ms/step - loss: 0.5027 - val_loss: 0.5192
Epoch 7/100
50/50 [=====] - 2s 38ms/step - loss: 0.4926 - val_loss: 0.5091
Epoch 8/100
50/50 [=====] - 2s 38ms/step - loss: 0.4825 - val_loss: 0.5089
Epoch 9/100
50/50 [=====] - 2s 37ms/step - loss: 0.4763 - val_loss: 0.4803
Epoch 10/100
50/50 [=====] - 2s 37ms/step - loss: 0.4392 - val_loss: 0.4550
Epoch 11/100
50/50 [=====] - 2s 36ms/step - loss: 0.4137 - val_loss: 0.4392
Epoch 12/100
50/50 [=====] - 2s 37ms/step - loss: 0.3958 - val_loss: 0.4291
Epoch 13/100
50/50 [=====] - 2s 37ms/step - loss: 0.3880 - val_loss: 0.4231
Epoch 14/100
50/50 [=====] - 2s 39ms/step - loss: 0.3868 - val_loss: 0.4070
Epoch 15/100
50/50 [=====] - 2s 36ms/step - loss: 0.5336 - val_loss: 0.5849
Epoch 16/100
50/50 [=====] - 2s 36ms/step - loss: 0.4823 - val_loss: 0.4741
Epoch 17/100
50/50 [=====] - 2s 38ms/step - loss: 0.4010 - val_loss: 0.4148
Epoch 18/100
50/50 [=====] - 2s 36ms/step - loss: 0.3871 - val_loss: 0.3990
Epoch 19/100
50/50 [=====] - 2s 37ms/step - loss: 0.3770 - val_loss: 0.3974
Epoch 20/100
50/50 [=====] - 2s 36ms/step - loss: 0.3797 - val_loss: 0.3941
Epoch 21/100
50/50 [=====] - 2s 37ms/step - loss: 0.3700 - val_loss: 0.4206
Epoch 22/100
50/50 [=====] - 2s 37ms/step - loss: 0.3718 - val_loss: 0.3867
Epoch 23/100
50/50 [=====] - 2s 38ms/step - loss: 0.3668 - val_loss: 0.4447
Epoch 24/100
50/50 [=====] - 2s 37ms/step - loss: 0.4881 - val_loss: 0.8804
Epoch 25/100
50/50 [=====] - 2s 36ms/step - loss: 0.6691 - val_loss: 0.5752
Epoch 26/100
50/50 [=====] - 2s 40ms/step - loss: 0.5874 - val_loss: 0.6445
Epoch 27/100
50/50 [=====] - 2s 38ms/step - loss: 0.5691 - val_loss: 0.5930
Epoch 28/100
50/50 [=====] - 2s 37ms/step - loss: 0.5521 - val_loss: 0.6223
Epoch 29/100
50/50 [=====] - 2s 37ms/step - loss: 0.5434 - val_loss: 0.5944

Epoch 30/100
50/50 [=====] - 2s 38ms/step - loss: 0.5327 - val_loss: 0.5467
Epoch 31/100
50/50 [=====] - 2s 37ms/step - loss: 0.5276 - val_loss: 0.5299
Epoch 32/100
50/50 [=====] - 2s 38ms/step - loss: 0.5235 - val_loss: 0.5451
Epoch 33/100
50/50 [=====] - 2s 37ms/step - loss: 0.5218 - val_loss: 0.5513
Epoch 34/100
50/50 [=====] - 2s 36ms/step - loss: 0.5165 - val_loss: 0.5467
Epoch 35/100
50/50 [=====] - 2s 38ms/step - loss: 0.5171 - val_loss: 0.5294
Epoch 36/100
50/50 [=====] - 2s 37ms/step - loss: 0.5085 - val_loss: 0.5372
Epoch 37/100
50/50 [=====] - 2s 38ms/step - loss: 0.5068 - val_loss: 0.5109
Epoch 38/100
50/50 [=====] - 2s 38ms/step - loss: 0.5046 - val_loss: 0.5241
Epoch 39/100
50/50 [=====] - 2s 37ms/step - loss: 0.4987 - val_loss: 0.5303
Epoch 40/100
50/50 [=====] - 2s 37ms/step - loss: 0.4951 - val_loss: 0.5188
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.4920 - val_loss: 0.5023
Epoch 42/100
50/50 [=====] - 2s 36ms/step - loss: 0.4872 - val_loss: 0.4906
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.4846 - val_loss: 0.5127
Epoch 44/100
50/50 [=====] - 2s 36ms/step - loss: 0.4747 - val_loss: 0.5115
Epoch 45/100
50/50 [=====] - 2s 37ms/step - loss: 0.4709 - val_loss: 0.5303
Epoch 46/100
50/50 [=====] - 2s 38ms/step - loss: 0.4662 - val_loss: 0.5364
Epoch 47/100
50/50 [=====] - 2s 39ms/step - loss: 0.4610 - val_loss: 0.5049
Epoch 48/100
50/50 [=====] - 2s 36ms/step - loss: 0.4568 - val_loss: 0.5355
Epoch 49/100
50/50 [=====] - 2s 38ms/step - loss: 0.4567 - val_loss: 0.4880
Epoch 50/100
50/50 [=====] - 2s 39ms/step - loss: 0.4515 - val_loss: 0.5065
Epoch 51/100
50/50 [=====] - 2s 37ms/step - loss: 0.4462 - val_loss: 0.4804
Epoch 52/100
50/50 [=====] - 2s 38ms/step - loss: 0.4435 - val_loss: 0.4809
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.4393 - val_loss: 0.4821

Epoch 54/100
50/50 [=====] - 2s 37ms/step - loss: 0.4377 - val_loss: 0.4628
Epoch 55/100
50/50 [=====] - 2s 37ms/step - loss: 0.4324 - val_loss: 0.4670
Epoch 56/100
50/50 [=====] - 2s 37ms/step - loss: 0.4334 - val_loss: 0.4483
Epoch 57/100
50/50 [=====] - 2s 38ms/step - loss: 0.4286 - val_loss: 0.4388
Epoch 58/100
50/50 [=====] - 2s 37ms/step - loss: 0.4279 - val_loss: 0.4711
Epoch 59/100
50/50 [=====] - 2s 37ms/step - loss: 0.4410 - val_loss: 0.4757
Epoch 60/100
50/50 [=====] - 2s 36ms/step - loss: 0.4367 - val_loss: 0.4679
Epoch 61/100
50/50 [=====] - 2s 36ms/step - loss: 0.4278 - val_loss: 0.4601
Epoch 62/100
50/50 [=====] - 2s 38ms/step - loss: 0.4225 - val_loss: 0.4765
Epoch 63/100
50/50 [=====] - 2s 38ms/step - loss: 0.4218 - val_loss: 0.5134
Epoch 64/100
50/50 [=====] - 2s 37ms/step - loss: 0.4175 - val_loss: 0.5183
Epoch 65/100
50/50 [=====] - 2s 38ms/step - loss: 0.4144 - val_loss: 0.5154
Epoch 66/100
50/50 [=====] - 2s 37ms/step - loss: 0.4120 - val_loss: 0.5097
Epoch 67/100
50/50 [=====] - 2s 37ms/step - loss: 0.4107 - val_loss: 0.5106
Epoch 68/100
50/50 [=====] - 2s 38ms/step - loss: 0.4072 - val_loss: 0.5180
Epoch 69/100
50/50 [=====] - 2s 39ms/step - loss: 0.4060 - val_loss: 0.5306
Epoch 70/100
50/50 [=====] - 2s 42ms/step - loss: 0.4012 - val_loss: 0.5108
Epoch 71/100
50/50 [=====] - 2s 40ms/step - loss: 0.4050 - val_loss: 0.4841
Epoch 72/100
50/50 [=====] - 2s 42ms/step - loss: 0.4002 - val_loss: 0.4926
Epoch 73/100
50/50 [=====] - 2s 44ms/step - loss: 0.4012 - val_loss: 0.4883
Epoch 74/100
50/50 [=====] - 2s 40ms/step - loss: 0.3965 - val_loss: 0.4873
Epoch 75/100
50/50 [=====] - 2s 39ms/step - loss: 0.3935 - val_loss: 0.4759
Epoch 76/100
50/50 [=====] - 2s 39ms/step - loss: 0.3936 - val_loss: 0.4762
Epoch 77/100
50/50 [=====] - 2s 39ms/step - loss: 0.3931 - val_loss: 0.4988

Epoch 78/100
50/50 [=====] - 2s 39ms/step - loss: 0.3929 - val_loss: 0.4878
Epoch 79/100
50/50 [=====] - 2s 38ms/step - loss: 0.3907 - val_loss: 0.4698
Epoch 80/100
50/50 [=====] - 2s 39ms/step - loss: 0.3876 - val_loss: 0.4767
Epoch 81/100
50/50 [=====] - 2s 39ms/step - loss: 0.3886 - val_loss: 0.4764
Epoch 82/100
50/50 [=====] - 2s 38ms/step - loss: 0.3914 - val_loss: 0.4628
Epoch 83/100
50/50 [=====] - 2s 39ms/step - loss: 0.3868 - val_loss: 0.4708
Epoch 84/100
50/50 [=====] - 2s 39ms/step - loss: 0.3878 - val_loss: 0.4612
Epoch 85/100
50/50 [=====] - 2s 38ms/step - loss: 0.3881 - val_loss: 0.4664
Epoch 86/100
50/50 [=====] - 2s 37ms/step - loss: 0.3874 - val_loss: 0.5206
Epoch 87/100
50/50 [=====] - 2s 38ms/step - loss: 0.4861 - val_loss: 0.6151
Epoch 88/100
50/50 [=====] - 2s 38ms/step - loss: 0.5913 - val_loss: 0.6057
Epoch 89/100
50/50 [=====] - 2s 37ms/step - loss: 0.5754 - val_loss: 0.6079
Epoch 90/100
50/50 [=====] - 2s 37ms/step - loss: 0.5724 - val_loss: 0.5992
Epoch 91/100
50/50 [=====] - 2s 37ms/step - loss: 0.5660 - val_loss: 0.5849
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.5583 - val_loss: 0.5860
Epoch 93/100
50/50 [=====] - 2s 38ms/step - loss: 0.5608 - val_loss: 0.5559
Epoch 94/100
50/50 [=====] - 2s 39ms/step - loss: 0.5519 - val_loss: 0.5795
Epoch 95/100
50/50 [=====] - 2s 39ms/step - loss: 0.5506 - val_loss: 0.5846
Epoch 96/100
50/50 [=====] - 2s 38ms/step - loss: 0.5494 - val_loss: 0.5954
Epoch 97/100
50/50 [=====] - 2s 39ms/step - loss: 0.5485 - val_loss: 0.5841
Epoch 98/100
50/50 [=====] - 2s 37ms/step - loss: 0.5449 - val_loss: 0.5786
Epoch 99/100
50/50 [=====] - 2s 37ms/step - loss: 0.5453 - val_loss: 0.5765
Epoch 100/100
50/50 [=====] - 2s 37ms/step - loss: 0.5413 - val_loss: 0.5897



TX_3 - True Future: 4286
 TX_3 - Model Prediction: 3775
 TX_3 - Model Percentage Error: 11.92%

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Training Model for WI_1...

Epoch 1/100

50/50 [=====] - 2s 43ms/step - loss: 0.5313 - val_loss: 0.8198

Epoch 2/100

50/50 [=====] - 2s 36ms/step - loss: 0.4723 - val_loss: 0.7659

Epoch 3/100

50/50 [=====] - 2s 37ms/step - loss: 0.4296 - val_loss: 0.6981

Epoch 4/100

50/50 [=====] - 2s 37ms/step - loss: 0.3966 - val_loss: 0.6960

Epoch 5/100

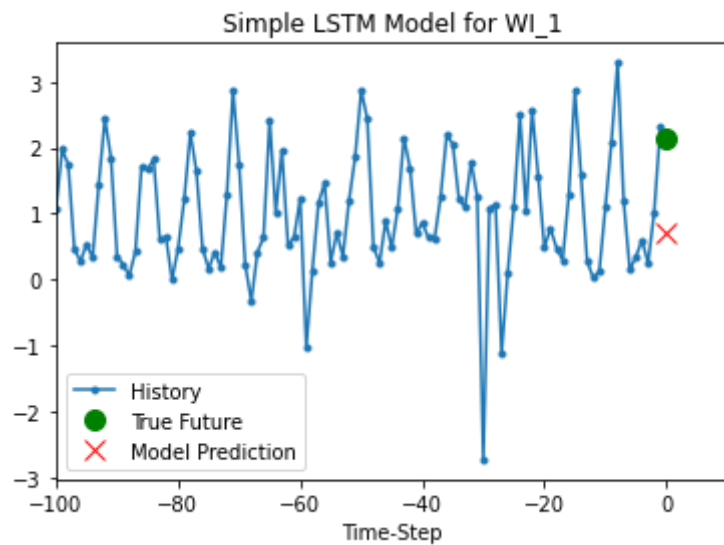
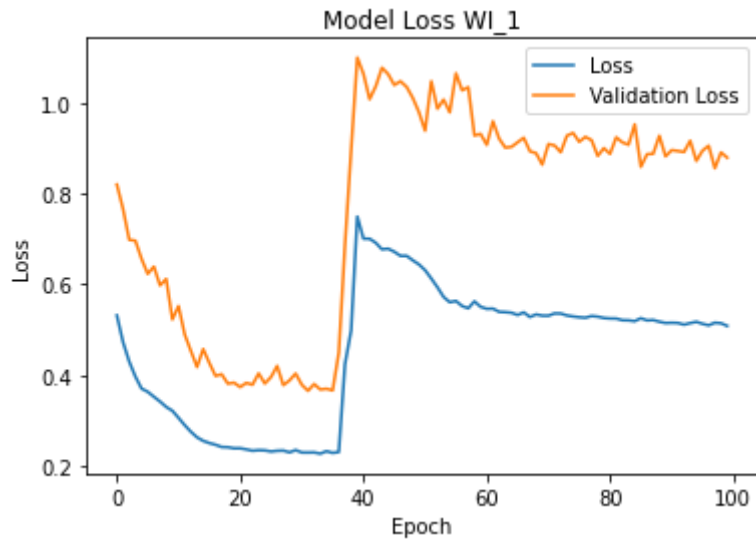
50/50 [=====] - 2s 35ms/step - loss: 0.3701 - val_loss: 0.6561

Epoch 6/100
50/50 [=====] - 2s 37ms/step - loss: 0.3630 - val_loss: 0.6228
Epoch 7/100
50/50 [=====] - 2s 37ms/step - loss: 0.3521 - val_loss: 0.6389
Epoch 8/100
50/50 [=====] - 2s 40ms/step - loss: 0.3416 - val_loss: 0.5974
Epoch 9/100
50/50 [=====] - 2s 36ms/step - loss: 0.3297 - val_loss: 0.6117
Epoch 10/100
50/50 [=====] - 2s 36ms/step - loss: 0.3212 - val_loss: 0.5225
Epoch 11/100
50/50 [=====] - 2s 37ms/step - loss: 0.3056 - val_loss: 0.5519
Epoch 12/100
50/50 [=====] - 2s 37ms/step - loss: 0.2895 - val_loss: 0.4896
Epoch 13/100
50/50 [=====] - 2s 36ms/step - loss: 0.2750 - val_loss: 0.4532
Epoch 14/100
50/50 [=====] - 2s 36ms/step - loss: 0.2627 - val_loss: 0.4177
Epoch 15/100
50/50 [=====] - 2s 37ms/step - loss: 0.2549 - val_loss: 0.4572
Epoch 16/100
50/50 [=====] - 2s 38ms/step - loss: 0.2500 - val_loss: 0.4266
Epoch 17/100
50/50 [=====] - 2s 40ms/step - loss: 0.2463 - val_loss: 0.3981
Epoch 18/100
50/50 [=====] - 2s 37ms/step - loss: 0.2414 - val_loss: 0.4016
Epoch 19/100
50/50 [=====] - 2s 39ms/step - loss: 0.2409 - val_loss: 0.3810
Epoch 20/100
50/50 [=====] - 2s 37ms/step - loss: 0.2385 - val_loss: 0.3831
Epoch 21/100
50/50 [=====] - 2s 36ms/step - loss: 0.2386 - val_loss: 0.3735
Epoch 22/100
50/50 [=====] - 2s 36ms/step - loss: 0.2361 - val_loss: 0.3826
Epoch 23/100
50/50 [=====] - 2s 38ms/step - loss: 0.2332 - val_loss: 0.3786
Epoch 24/100
50/50 [=====] - 2s 38ms/step - loss: 0.2344 - val_loss: 0.4037
Epoch 25/100
50/50 [=====] - 2s 36ms/step - loss: 0.2339 - val_loss: 0.3812
Epoch 26/100
50/50 [=====] - 2s 39ms/step - loss: 0.2315 - val_loss: 0.3954
Epoch 27/100
50/50 [=====] - 2s 36ms/step - loss: 0.2331 - val_loss: 0.4200
Epoch 28/100
50/50 [=====] - 2s 36ms/step - loss: 0.2335 - val_loss: 0.3777
Epoch 29/100
50/50 [=====] - 2s 36ms/step - loss: 0.2296 - val_loss: 0.3880

Epoch 30/100
50/50 [=====] - 2s 37ms/step - loss: 0.2346 - val_loss: 0.4033
Epoch 31/100
50/50 [=====] - 2s 38ms/step - loss: 0.2293 - val_loss: 0.3785
Epoch 32/100
50/50 [=====] - 2s 37ms/step - loss: 0.2292 - val_loss: 0.3653
Epoch 33/100
50/50 [=====] - 2s 36ms/step - loss: 0.2294 - val_loss: 0.3800
Epoch 34/100
50/50 [=====] - 2s 35ms/step - loss: 0.2267 - val_loss: 0.3681
Epoch 35/100
50/50 [=====] - 2s 38ms/step - loss: 0.2321 - val_loss: 0.3697
Epoch 36/100
50/50 [=====] - 2s 36ms/step - loss: 0.2284 - val_loss: 0.3661
Epoch 37/100
50/50 [=====] - 2s 36ms/step - loss: 0.2304 - val_loss: 0.4494
Epoch 38/100
50/50 [=====] - 2s 36ms/step - loss: 0.4239 - val_loss: 0.6869
Epoch 39/100
50/50 [=====] - 2s 37ms/step - loss: 0.4984 - val_loss: 0.8959
Epoch 40/100
50/50 [=====] - 2s 39ms/step - loss: 0.7491 - val_loss: 1.0995
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.7005 - val_loss: 1.0637
Epoch 42/100
50/50 [=====] - 2s 36ms/step - loss: 0.7003 - val_loss: 1.0077
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.6913 - val_loss: 1.0365
Epoch 44/100
50/50 [=====] - 2s 38ms/step - loss: 0.6770 - val_loss: 1.0772
Epoch 45/100
50/50 [=====] - 2s 36ms/step - loss: 0.6784 - val_loss: 1.0631
Epoch 46/100
50/50 [=====] - 2s 38ms/step - loss: 0.6717 - val_loss: 1.0391
Epoch 47/100
50/50 [=====] - 2s 37ms/step - loss: 0.6626 - val_loss: 1.0474
Epoch 48/100
50/50 [=====] - 2s 36ms/step - loss: 0.6627 - val_loss: 1.0350
Epoch 49/100
50/50 [=====] - 2s 36ms/step - loss: 0.6528 - val_loss: 1.0107
Epoch 50/100
50/50 [=====] - 2s 37ms/step - loss: 0.6437 - val_loss: 0.9792
Epoch 51/100
50/50 [=====] - 2s 36ms/step - loss: 0.6310 - val_loss: 0.9384
Epoch 52/100
50/50 [=====] - 2s 38ms/step - loss: 0.6127 - val_loss: 1.0475
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.5933 - val_loss: 0.9869

Epoch 54/100
50/50 [=====] - 2s 36ms/step - loss: 0.5721 - val_loss: 1.0071
Epoch 55/100
50/50 [=====] - 2s 38ms/step - loss: 0.5604 - val_loss: 0.9788
Epoch 56/100
50/50 [=====] - 2s 37ms/step - loss: 0.5632 - val_loss: 1.0649
Epoch 57/100
50/50 [=====] - 2s 37ms/step - loss: 0.5520 - val_loss: 1.0274
Epoch 58/100
50/50 [=====] - 2s 37ms/step - loss: 0.5471 - val_loss: 1.0343
Epoch 59/100
50/50 [=====] - 2s 36ms/step - loss: 0.5624 - val_loss: 0.9280
Epoch 60/100
50/50 [=====] - 2s 37ms/step - loss: 0.5503 - val_loss: 0.9313
Epoch 61/100
50/50 [=====] - 2s 37ms/step - loss: 0.5459 - val_loss: 0.9072
Epoch 62/100
50/50 [=====] - 2s 37ms/step - loss: 0.5464 - val_loss: 0.9592
Epoch 63/100
50/50 [=====] - 2s 38ms/step - loss: 0.5392 - val_loss: 0.9210
Epoch 64/100
50/50 [=====] - 2s 37ms/step - loss: 0.5386 - val_loss: 0.9012
Epoch 65/100
50/50 [=====] - 2s 38ms/step - loss: 0.5373 - val_loss: 0.9027
Epoch 66/100
50/50 [=====] - 2s 39ms/step - loss: 0.5323 - val_loss: 0.9128
Epoch 67/100
50/50 [=====] - 2s 38ms/step - loss: 0.5381 - val_loss: 0.9229
Epoch 68/100
50/50 [=====] - 2s 37ms/step - loss: 0.5278 - val_loss: 0.8931
Epoch 69/100
50/50 [=====] - 2s 36ms/step - loss: 0.5335 - val_loss: 0.8889
Epoch 70/100
50/50 [=====] - 2s 38ms/step - loss: 0.5308 - val_loss: 0.8637
Epoch 71/100
50/50 [=====] - 2s 37ms/step - loss: 0.5307 - val_loss: 0.9090
Epoch 72/100
50/50 [=====] - 2s 37ms/step - loss: 0.5357 - val_loss: 0.9059
Epoch 73/100
50/50 [=====] - 2s 38ms/step - loss: 0.5355 - val_loss: 0.8909
Epoch 74/100
50/50 [=====] - 2s 37ms/step - loss: 0.5313 - val_loss: 0.9275
Epoch 75/100
50/50 [=====] - 2s 37ms/step - loss: 0.5291 - val_loss: 0.9334
Epoch 76/100
50/50 [=====] - 2s 36ms/step - loss: 0.5273 - val_loss: 0.9140
Epoch 77/100
50/50 [=====] - 2s 37ms/step - loss: 0.5263 - val_loss: 0.9247

Epoch 78/100
50/50 [=====] - 2s 39ms/step - loss: 0.5300 - val_loss: 0.9176
Epoch 79/100
50/50 [=====] - 2s 37ms/step - loss: 0.5286 - val_loss: 0.8829
Epoch 80/100
50/50 [=====] - 2s 37ms/step - loss: 0.5256 - val_loss: 0.9000
Epoch 81/100
50/50 [=====] - 2s 38ms/step - loss: 0.5246 - val_loss: 0.8874
Epoch 82/100
50/50 [=====] - 2s 36ms/step - loss: 0.5245 - val_loss: 0.9238
Epoch 83/100
50/50 [=====] - 2s 38ms/step - loss: 0.5208 - val_loss: 0.9127
Epoch 84/100
50/50 [=====] - 2s 38ms/step - loss: 0.5205 - val_loss: 0.9075
Epoch 85/100
50/50 [=====] - 2s 38ms/step - loss: 0.5187 - val_loss: 0.9524
Epoch 86/100
50/50 [=====] - 2s 38ms/step - loss: 0.5252 - val_loss: 0.8589
Epoch 87/100
50/50 [=====] - 2s 39ms/step - loss: 0.5204 - val_loss: 0.8867
Epoch 88/100
50/50 [=====] - 2s 38ms/step - loss: 0.5212 - val_loss: 0.8876
Epoch 89/100
50/50 [=====] - 2s 39ms/step - loss: 0.5175 - val_loss: 0.9273
Epoch 90/100
50/50 [=====] - 2s 37ms/step - loss: 0.5146 - val_loss: 0.8819
Epoch 91/100
50/50 [=====] - 2s 37ms/step - loss: 0.5151 - val_loss: 0.8956
Epoch 92/100
50/50 [=====] - 2s 36ms/step - loss: 0.5147 - val_loss: 0.8937
Epoch 93/100
50/50 [=====] - 2s 37ms/step - loss: 0.5110 - val_loss: 0.8916
Epoch 94/100
50/50 [=====] - 2s 38ms/step - loss: 0.5144 - val_loss: 0.9162
Epoch 95/100
50/50 [=====] - 2s 37ms/step - loss: 0.5172 - val_loss: 0.8719
Epoch 96/100
50/50 [=====] - 2s 37ms/step - loss: 0.5128 - val_loss: 0.8945
Epoch 97/100
50/50 [=====] - 2s 36ms/step - loss: 0.5095 - val_loss: 0.9054
Epoch 98/100
50/50 [=====] - 2s 37ms/step - loss: 0.5153 - val_loss: 0.8557
Epoch 99/100
50/50 [=====] - 2s 36ms/step - loss: 0.5141 - val_loss: 0.8905
Epoch 100/100
50/50 [=====] - 2s 36ms/step - loss: 0.5082 - val_loss: 0.8790



WI_1 - True Future: 4600

WI_1 - Model Prediction: 3254

WI_1 - Model Percentage Error: 29.26%

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Training Model for WI_2...

Epoch 1/100

50/50 [=====] - 2s 42ms/step - loss: 0.4179 - val_loss: 0.6483

Epoch 2/100

50/50 [=====] - 2s 36ms/step - loss: 0.3862 - val_loss: 0.6942

Epoch 3/100

50/50 [=====] - 2s 36ms/step - loss: 0.3867 - val_loss: 0.6989

Epoch 4/100

50/50 [=====] - 2s 38ms/step - loss: 0.3821 - val_loss: 0.6936

Epoch 5/100

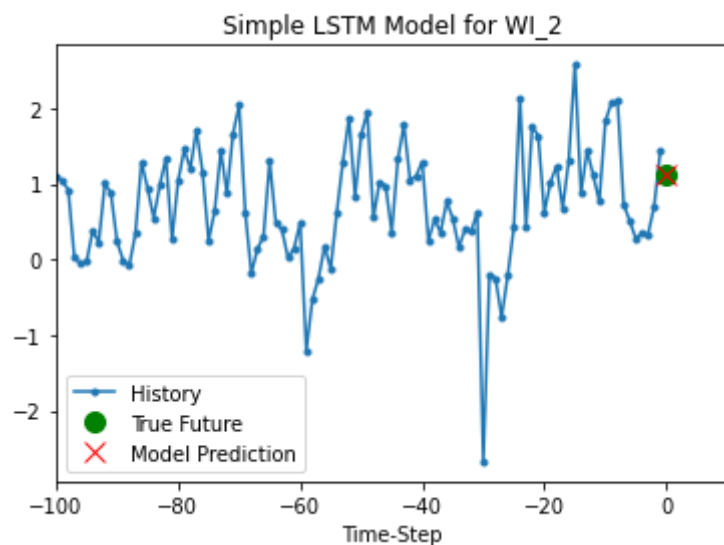
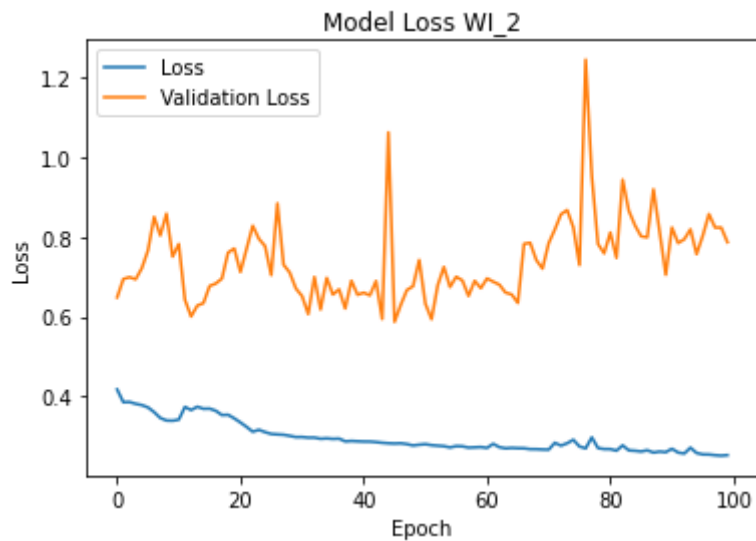
50/50 [=====] - 2s 36ms/step - loss: 0.3789 - val_loss: 0.7212

Epoch 6/100
50/50 [=====] - 2s 36ms/step - loss: 0.3731 - val_loss: 0.7657
Epoch 7/100
50/50 [=====] - 2s 36ms/step - loss: 0.3613 - val_loss: 0.8495
Epoch 8/100
50/50 [=====] - 2s 38ms/step - loss: 0.3467 - val_loss: 0.8031
Epoch 9/100
50/50 [=====] - 2s 37ms/step - loss: 0.3404 - val_loss: 0.8578
Epoch 10/100
50/50 [=====] - 2s 35ms/step - loss: 0.3398 - val_loss: 0.7502
Epoch 11/100
50/50 [=====] - 2s 38ms/step - loss: 0.3424 - val_loss: 0.7818
Epoch 12/100
50/50 [=====] - 2s 36ms/step - loss: 0.3743 - val_loss: 0.6421
Epoch 13/100
50/50 [=====] - 2s 36ms/step - loss: 0.3664 - val_loss: 0.6006
Epoch 14/100
50/50 [=====] - 2s 38ms/step - loss: 0.3747 - val_loss: 0.6277
Epoch 15/100
50/50 [=====] - 2s 36ms/step - loss: 0.3697 - val_loss: 0.6340
Epoch 16/100
50/50 [=====] - 2s 36ms/step - loss: 0.3701 - val_loss: 0.6768
Epoch 17/100
50/50 [=====] - 2s 37ms/step - loss: 0.3646 - val_loss: 0.6829
Epoch 18/100
50/50 [=====] - 2s 36ms/step - loss: 0.3540 - val_loss: 0.6954
Epoch 19/100
50/50 [=====] - 2s 36ms/step - loss: 0.3546 - val_loss: 0.7604
Epoch 20/100
50/50 [=====] - 2s 36ms/step - loss: 0.3457 - val_loss: 0.7706
Epoch 21/100
50/50 [=====] - 2s 36ms/step - loss: 0.3354 - val_loss: 0.7119
Epoch 22/100
50/50 [=====] - 2s 36ms/step - loss: 0.3243 - val_loss: 0.7699
Epoch 23/100
50/50 [=====] - 2s 36ms/step - loss: 0.3123 - val_loss: 0.8275
Epoch 24/100
50/50 [=====] - 2s 37ms/step - loss: 0.3170 - val_loss: 0.7948
Epoch 25/100
50/50 [=====] - 2s 39ms/step - loss: 0.3113 - val_loss: 0.7766
Epoch 26/100
50/50 [=====] - 2s 35ms/step - loss: 0.3066 - val_loss: 0.7039
Epoch 27/100
50/50 [=====] - 2s 36ms/step - loss: 0.3056 - val_loss: 0.8836
Epoch 28/100
50/50 [=====] - 2s 37ms/step - loss: 0.3046 - val_loss: 0.7301
Epoch 29/100
50/50 [=====] - 2s 36ms/step - loss: 0.3019 - val_loss: 0.7104

Epoch 30/100
50/50 [=====] - 2s 38ms/step - loss: 0.2988 - val_loss: 0.6706
Epoch 31/100
50/50 [=====] - 2s 40ms/step - loss: 0.2990 - val_loss: 0.6517
Epoch 32/100
50/50 [=====] - 2s 37ms/step - loss: 0.2974 - val_loss: 0.6066
Epoch 33/100
50/50 [=====] - 2s 47ms/step - loss: 0.2975 - val_loss: 0.6994
Epoch 34/100
50/50 [=====] - 3s 54ms/step - loss: 0.2947 - val_loss: 0.6179
Epoch 35/100
50/50 [=====] - 3s 52ms/step - loss: 0.2957 - val_loss: 0.6971
Epoch 36/100
50/50 [=====] - 2s 37ms/step - loss: 0.2943 - val_loss: 0.6553
Epoch 37/100
50/50 [=====] - 2s 36ms/step - loss: 0.2950 - val_loss: 0.6686
Epoch 38/100
50/50 [=====] - 2s 37ms/step - loss: 0.2881 - val_loss: 0.6206
Epoch 39/100
50/50 [=====] - 2s 37ms/step - loss: 0.2891 - val_loss: 0.6900
Epoch 40/100
50/50 [=====] - 2s 36ms/step - loss: 0.2883 - val_loss: 0.6548
Epoch 41/100
50/50 [=====] - 2s 36ms/step - loss: 0.2876 - val_loss: 0.6600
Epoch 42/100
50/50 [=====] - 2s 36ms/step - loss: 0.2875 - val_loss: 0.6533
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.2863 - val_loss: 0.6892
Epoch 44/100
50/50 [=====] - 2s 36ms/step - loss: 0.2846 - val_loss: 0.5942
Epoch 45/100
50/50 [=====] - 2s 36ms/step - loss: 0.2834 - val_loss: 1.0611
Epoch 46/100
50/50 [=====] - 2s 36ms/step - loss: 0.2827 - val_loss: 0.5871
Epoch 47/100
50/50 [=====] - 2s 36ms/step - loss: 0.2833 - val_loss: 0.6292
Epoch 48/100
50/50 [=====] - 2s 36ms/step - loss: 0.2813 - val_loss: 0.6666
Epoch 49/100
50/50 [=====] - 2s 39ms/step - loss: 0.2779 - val_loss: 0.6762
Epoch 50/100
50/50 [=====] - 2s 38ms/step - loss: 0.2798 - val_loss: 0.7419
Epoch 51/100
50/50 [=====] - 2s 37ms/step - loss: 0.2812 - val_loss: 0.6326
Epoch 52/100
50/50 [=====] - 2s 38ms/step - loss: 0.2786 - val_loss: 0.5936
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.2773 - val_loss: 0.6784

Epoch 54/100
50/50 [=====] - 2s 38ms/step - loss: 0.2762 - val_loss: 0.7245
Epoch 55/100
50/50 [=====] - 2s 38ms/step - loss: 0.2729 - val_loss: 0.6743
Epoch 56/100
50/50 [=====] - 2s 37ms/step - loss: 0.2763 - val_loss: 0.6999
Epoch 57/100
50/50 [=====] - 2s 36ms/step - loss: 0.2758 - val_loss: 0.6908
Epoch 58/100
50/50 [=====] - 2s 35ms/step - loss: 0.2725 - val_loss: 0.6519
Epoch 59/100
50/50 [=====] - 2s 36ms/step - loss: 0.2732 - val_loss: 0.6898
Epoch 60/100
50/50 [=====] - 2s 39ms/step - loss: 0.2739 - val_loss: 0.6712
Epoch 61/100
50/50 [=====] - 2s 37ms/step - loss: 0.2718 - val_loss: 0.6958
Epoch 62/100
50/50 [=====] - 2s 36ms/step - loss: 0.2819 - val_loss: 0.6876
Epoch 63/100
50/50 [=====] - 2s 35ms/step - loss: 0.2736 - val_loss: 0.6801
Epoch 64/100
50/50 [=====] - 2s 36ms/step - loss: 0.2707 - val_loss: 0.6605
Epoch 65/100
50/50 [=====] - 2s 35ms/step - loss: 0.2717 - val_loss: 0.6556
Epoch 66/100
50/50 [=====] - 2s 37ms/step - loss: 0.2710 - val_loss: 0.6345
Epoch 67/100
50/50 [=====] - 2s 36ms/step - loss: 0.2708 - val_loss: 0.7823
Epoch 68/100
50/50 [=====] - 2s 38ms/step - loss: 0.2687 - val_loss: 0.7848
Epoch 69/100
50/50 [=====] - 2s 36ms/step - loss: 0.2686 - val_loss: 0.7416
Epoch 70/100
50/50 [=====] - 2s 37ms/step - loss: 0.2678 - val_loss: 0.7203
Epoch 71/100
50/50 [=====] - 2s 36ms/step - loss: 0.2674 - val_loss: 0.7839
Epoch 72/100
50/50 [=====] - 2s 36ms/step - loss: 0.2844 - val_loss: 0.8181
Epoch 73/100
50/50 [=====] - 2s 36ms/step - loss: 0.2775 - val_loss: 0.8562
Epoch 74/100
50/50 [=====] - 2s 36ms/step - loss: 0.2833 - val_loss: 0.8667
Epoch 75/100
50/50 [=====] - 2s 36ms/step - loss: 0.2921 - val_loss: 0.8237
Epoch 76/100
50/50 [=====] - 2s 37ms/step - loss: 0.2754 - val_loss: 0.7291
Epoch 77/100
50/50 [=====] - 2s 36ms/step - loss: 0.2706 - val_loss: 1.2431

Epoch 78/100
50/50 [=====] - 2s 36ms/step - loss: 0.2982 - val_loss: 0.9518
Epoch 79/100
50/50 [=====] - 2s 37ms/step - loss: 0.2714 - val_loss: 0.7820
Epoch 80/100
50/50 [=====] - 2s 38ms/step - loss: 0.2690 - val_loss: 0.7585
Epoch 81/100
50/50 [=====] - 2s 37ms/step - loss: 0.2688 - val_loss: 0.8106
Epoch 82/100
50/50 [=====] - 2s 36ms/step - loss: 0.2649 - val_loss: 0.7471
Epoch 83/100
50/50 [=====] - 2s 36ms/step - loss: 0.2781 - val_loss: 0.9428
Epoch 84/100
50/50 [=====] - 2s 35ms/step - loss: 0.2657 - val_loss: 0.8653
Epoch 85/100
50/50 [=====] - 2s 38ms/step - loss: 0.2646 - val_loss: 0.8286
Epoch 86/100
50/50 [=====] - 2s 36ms/step - loss: 0.2628 - val_loss: 0.8011
Epoch 87/100
50/50 [=====] - 2s 38ms/step - loss: 0.2658 - val_loss: 0.7986
Epoch 88/100
50/50 [=====] - 2s 36ms/step - loss: 0.2602 - val_loss: 0.9188
Epoch 89/100
50/50 [=====] - 2s 36ms/step - loss: 0.2626 - val_loss: 0.8126
Epoch 90/100
50/50 [=====] - 2s 36ms/step - loss: 0.2611 - val_loss: 0.7048
Epoch 91/100
50/50 [=====] - 2s 36ms/step - loss: 0.2696 - val_loss: 0.8231
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.2602 - val_loss: 0.7843
Epoch 93/100
50/50 [=====] - 2s 36ms/step - loss: 0.2577 - val_loss: 0.7937
Epoch 94/100
50/50 [=====] - 2s 36ms/step - loss: 0.2724 - val_loss: 0.8185
Epoch 95/100
50/50 [=====] - 2s 38ms/step - loss: 0.2590 - val_loss: 0.7565
Epoch 96/100
50/50 [=====] - 2s 36ms/step - loss: 0.2555 - val_loss: 0.8026
Epoch 97/100
50/50 [=====] - 2s 36ms/step - loss: 0.2553 - val_loss: 0.8567
Epoch 98/100
50/50 [=====] - 2s 36ms/step - loss: 0.2535 - val_loss: 0.8230
Epoch 99/100
50/50 [=====] - 2s 36ms/step - loss: 0.2524 - val_loss: 0.8228
Epoch 100/100
50/50 [=====] - 2s 36ms/step - loss: 0.2536 - val_loss: 0.7863



WI_2 - True Future: 4670

WI_2 - Model Prediction: 4667

WI_2 - Model Percentage Error: 0.06%

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Training Model for WI_3...

Epoch 1/100

50/50 [=====] - 2s 44ms/step - loss: 0.6571 - val_loss: 0.7434

Epoch 2/100

50/50 [=====] - 2s 37ms/step - loss: 0.5935 - val_loss: 0.6826

Epoch 3/100

50/50 [=====] - 2s 36ms/step - loss: 0.5751 - val_loss: 0.6631

Epoch 4/100

50/50 [=====] - 2s 38ms/step - loss: 0.5681 - val_loss: 0.6474

Epoch 5/100

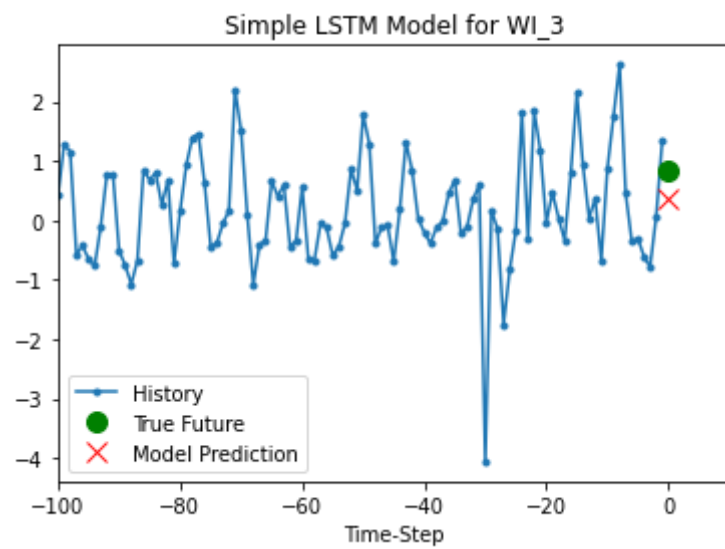
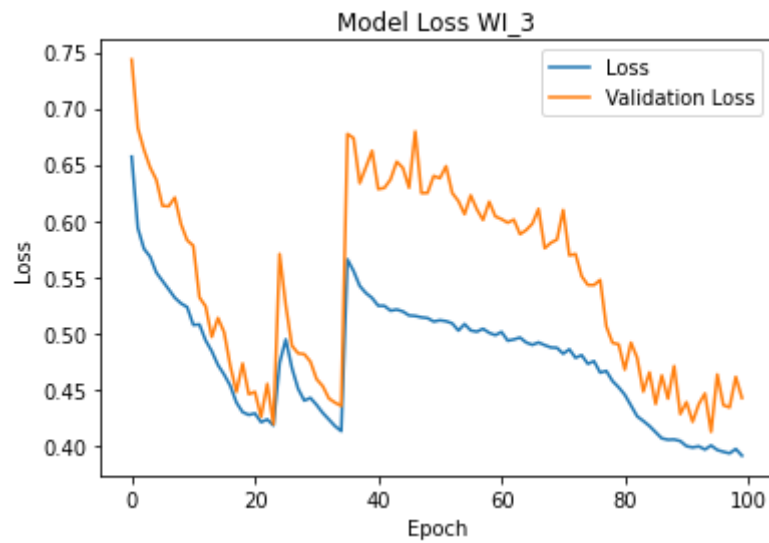
50/50 [=====] - 2s 37ms/step - loss: 0.5540 - val_loss: 0.6365

Epoch 6/100
50/50 [=====] - 2s 38ms/step - loss: 0.5466 - val_loss: 0.6134
Epoch 7/100
50/50 [=====] - 2s 37ms/step - loss: 0.5391 - val_loss: 0.6129
Epoch 8/100
50/50 [=====] - 2s 37ms/step - loss: 0.5316 - val_loss: 0.6207
Epoch 9/100
50/50 [=====] - 2s 38ms/step - loss: 0.5266 - val_loss: 0.5971
Epoch 10/100
50/50 [=====] - 2s 36ms/step - loss: 0.5233 - val_loss: 0.5827
Epoch 11/100
50/50 [=====] - 2s 39ms/step - loss: 0.5074 - val_loss: 0.5778
Epoch 12/100
50/50 [=====] - 2s 37ms/step - loss: 0.5078 - val_loss: 0.5319
Epoch 13/100
50/50 [=====] - 2s 38ms/step - loss: 0.4936 - val_loss: 0.5239
Epoch 14/100
50/50 [=====] - 2s 36ms/step - loss: 0.4840 - val_loss: 0.4968
Epoch 15/100
50/50 [=====] - 2s 36ms/step - loss: 0.4718 - val_loss: 0.5136
Epoch 16/100
50/50 [=====] - 2s 37ms/step - loss: 0.4633 - val_loss: 0.5009
Epoch 17/100
50/50 [=====] - 2s 37ms/step - loss: 0.4534 - val_loss: 0.4710
Epoch 18/100
50/50 [=====] - 2s 37ms/step - loss: 0.4383 - val_loss: 0.4479
Epoch 19/100
50/50 [=====] - 2s 37ms/step - loss: 0.4299 - val_loss: 0.4731
Epoch 20/100
50/50 [=====] - 2s 37ms/step - loss: 0.4274 - val_loss: 0.4458
Epoch 21/100
50/50 [=====] - 2s 37ms/step - loss: 0.4287 - val_loss: 0.4478
Epoch 22/100
50/50 [=====] - 2s 37ms/step - loss: 0.4209 - val_loss: 0.4257
Epoch 23/100
50/50 [=====] - 2s 36ms/step - loss: 0.4233 - val_loss: 0.4550
Epoch 24/100
50/50 [=====] - 2s 36ms/step - loss: 0.4181 - val_loss: 0.4191
Epoch 25/100
50/50 [=====] - 2s 36ms/step - loss: 0.4735 - val_loss: 0.5706
Epoch 26/100
50/50 [=====] - 2s 37ms/step - loss: 0.4945 - val_loss: 0.5250
Epoch 27/100
50/50 [=====] - 2s 38ms/step - loss: 0.4692 - val_loss: 0.4890
Epoch 28/100
50/50 [=====] - 2s 35ms/step - loss: 0.4507 - val_loss: 0.4821
Epoch 29/100
50/50 [=====] - 2s 38ms/step - loss: 0.4401 - val_loss: 0.4814

Epoch 30/100
50/50 [=====] - 2s 37ms/step - loss: 0.4425 - val_loss: 0.4747
Epoch 31/100
50/50 [=====] - 2s 36ms/step - loss: 0.4363 - val_loss: 0.4592
Epoch 32/100
50/50 [=====] - 2s 36ms/step - loss: 0.4291 - val_loss: 0.4530
Epoch 33/100
50/50 [=====] - 2s 37ms/step - loss: 0.4233 - val_loss: 0.4420
Epoch 34/100
50/50 [=====] - 2s 37ms/step - loss: 0.4174 - val_loss: 0.4383
Epoch 35/100
50/50 [=====] - 2s 37ms/step - loss: 0.4130 - val_loss: 0.4354
Epoch 36/100
50/50 [=====] - 2s 37ms/step - loss: 0.5657 - val_loss: 0.6773
Epoch 37/100
50/50 [=====] - 2s 39ms/step - loss: 0.5554 - val_loss: 0.6736
Epoch 38/100
50/50 [=====] - 2s 38ms/step - loss: 0.5421 - val_loss: 0.6335
Epoch 39/100
50/50 [=====] - 2s 36ms/step - loss: 0.5358 - val_loss: 0.6477
Epoch 40/100
50/50 [=====] - 2s 38ms/step - loss: 0.5314 - val_loss: 0.6623
Epoch 41/100
50/50 [=====] - 2s 39ms/step - loss: 0.5244 - val_loss: 0.6282
Epoch 42/100
50/50 [=====] - 2s 37ms/step - loss: 0.5244 - val_loss: 0.6292
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.5201 - val_loss: 0.6368
Epoch 44/100
50/50 [=====] - 2s 39ms/step - loss: 0.5211 - val_loss: 0.6526
Epoch 45/100
50/50 [=====] - 2s 37ms/step - loss: 0.5194 - val_loss: 0.6471
Epoch 46/100
50/50 [=====] - 2s 36ms/step - loss: 0.5158 - val_loss: 0.6294
Epoch 47/100
50/50 [=====] - 2s 37ms/step - loss: 0.5154 - val_loss: 0.6795
Epoch 48/100
50/50 [=====] - 2s 36ms/step - loss: 0.5141 - val_loss: 0.6247
Epoch 49/100
50/50 [=====] - 2s 40ms/step - loss: 0.5135 - val_loss: 0.6248
Epoch 50/100
50/50 [=====] - 2s 36ms/step - loss: 0.5104 - val_loss: 0.6399
Epoch 51/100
50/50 [=====] - 2s 38ms/step - loss: 0.5116 - val_loss: 0.6379
Epoch 52/100
50/50 [=====] - 2s 36ms/step - loss: 0.5107 - val_loss: 0.6486
Epoch 53/100
50/50 [=====] - 2s 40ms/step - loss: 0.5088 - val_loss: 0.6248

Epoch 54/100
50/50 [=====] - 2s 37ms/step - loss: 0.5024 - val_loss: 0.6176
Epoch 55/100
50/50 [=====] - 2s 36ms/step - loss: 0.5082 - val_loss: 0.6059
Epoch 56/100
50/50 [=====] - 2s 37ms/step - loss: 0.5025 - val_loss: 0.6227
Epoch 57/100
50/50 [=====] - 2s 37ms/step - loss: 0.5014 - val_loss: 0.6102
Epoch 58/100
50/50 [=====] - 2s 37ms/step - loss: 0.5040 - val_loss: 0.6007
Epoch 59/100
50/50 [=====] - 2s 36ms/step - loss: 0.5004 - val_loss: 0.6170
Epoch 60/100
50/50 [=====] - 2s 35ms/step - loss: 0.4983 - val_loss: 0.6039
Epoch 61/100
50/50 [=====] - 2s 36ms/step - loss: 0.5012 - val_loss: 0.6015
Epoch 62/100
50/50 [=====] - 2s 38ms/step - loss: 0.4934 - val_loss: 0.5983
Epoch 63/100
50/50 [=====] - 2s 38ms/step - loss: 0.4945 - val_loss: 0.6010
Epoch 64/100
50/50 [=====] - 2s 36ms/step - loss: 0.4962 - val_loss: 0.5881
Epoch 65/100
50/50 [=====] - 2s 36ms/step - loss: 0.4918 - val_loss: 0.5918
Epoch 66/100
50/50 [=====] - 2s 37ms/step - loss: 0.4897 - val_loss: 0.5974
Epoch 67/100
50/50 [=====] - 2s 36ms/step - loss: 0.4918 - val_loss: 0.6106
Epoch 68/100
50/50 [=====] - 2s 38ms/step - loss: 0.4894 - val_loss: 0.5756
Epoch 69/100
50/50 [=====] - 2s 37ms/step - loss: 0.4874 - val_loss: 0.5804
Epoch 70/100
50/50 [=====] - 2s 38ms/step - loss: 0.4870 - val_loss: 0.5834
Epoch 71/100
50/50 [=====] - 2s 39ms/step - loss: 0.4818 - val_loss: 0.6096
Epoch 72/100
50/50 [=====] - 2s 39ms/step - loss: 0.4857 - val_loss: 0.5693
Epoch 73/100
50/50 [=====] - 2s 38ms/step - loss: 0.4782 - val_loss: 0.5705
Epoch 74/100
50/50 [=====] - 2s 39ms/step - loss: 0.4805 - val_loss: 0.5507
Epoch 75/100
50/50 [=====] - 2s 37ms/step - loss: 0.4728 - val_loss: 0.5430
Epoch 76/100
50/50 [=====] - 2s 36ms/step - loss: 0.4752 - val_loss: 0.5429
Epoch 77/100
50/50 [=====] - 2s 36ms/step - loss: 0.4650 - val_loss: 0.5475

Epoch 78/100
50/50 [=====] - 2s 40ms/step - loss: 0.4665 - val_loss: 0.5060
Epoch 79/100
50/50 [=====] - 2s 36ms/step - loss: 0.4575 - val_loss: 0.4915
Epoch 80/100
50/50 [=====] - 2s 37ms/step - loss: 0.4519 - val_loss: 0.4901
Epoch 81/100
50/50 [=====] - 2s 36ms/step - loss: 0.4453 - val_loss: 0.4676
Epoch 82/100
50/50 [=====] - 2s 36ms/step - loss: 0.4358 - val_loss: 0.4916
Epoch 83/100
50/50 [=====] - 2s 36ms/step - loss: 0.4262 - val_loss: 0.4781
Epoch 84/100
50/50 [=====] - 2s 36ms/step - loss: 0.4220 - val_loss: 0.4481
Epoch 85/100
50/50 [=====] - 2s 37ms/step - loss: 0.4175 - val_loss: 0.4652
Epoch 86/100
50/50 [=====] - 2s 37ms/step - loss: 0.4120 - val_loss: 0.4371
Epoch 87/100
50/50 [=====] - 2s 39ms/step - loss: 0.4065 - val_loss: 0.4625
Epoch 88/100
50/50 [=====] - 2s 38ms/step - loss: 0.4053 - val_loss: 0.4418
Epoch 89/100
50/50 [=====] - 2s 36ms/step - loss: 0.4055 - val_loss: 0.4708
Epoch 90/100
50/50 [=====] - 2s 38ms/step - loss: 0.4042 - val_loss: 0.4281
Epoch 91/100
50/50 [=====] - 2s 37ms/step - loss: 0.3996 - val_loss: 0.4387
Epoch 92/100
50/50 [=====] - 2s 39ms/step - loss: 0.3985 - val_loss: 0.4213
Epoch 93/100
50/50 [=====] - 2s 38ms/step - loss: 0.3994 - val_loss: 0.4369
Epoch 94/100
50/50 [=====] - 2s 41ms/step - loss: 0.3966 - val_loss: 0.4464
Epoch 95/100
50/50 [=====] - 2s 39ms/step - loss: 0.4002 - val_loss: 0.4123
Epoch 96/100
50/50 [=====] - 2s 38ms/step - loss: 0.3962 - val_loss: 0.4634
Epoch 97/100
50/50 [=====] - 2s 38ms/step - loss: 0.3946 - val_loss: 0.4360
Epoch 98/100
50/50 [=====] - 2s 37ms/step - loss: 0.3932 - val_loss: 0.4340
Epoch 99/100
50/50 [=====] - 2s 36ms/step - loss: 0.3971 - val_loss: 0.4612
Epoch 100/100
50/50 [=====] - 2s 36ms/step - loss: 0.3911 - val_loss: 0.4425



WI_3 - True Future: 3998

WI_3 - Model Prediction: 3632

WI_3 - Model Percentage Error: 9.15%

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