

Training Model for CA_1...

Epoch 1/100

50/50 [=====] - 2s 43ms/step - loss: 0.6797 - val_loss: 0.6434

Epoch 2/100

50/50 [=====] - 2s 37ms/step - loss: 0.5458 - val_loss: 0.4912

Epoch 3/100

50/50 [=====] - 2s 37ms/step - loss: 0.4440 - val_loss: 0.4140

Epoch 4/100

50/50 [=====] - 2s 38ms/step - loss: 0.4125 - val_loss: 0.3831

Epoch 5/100

50/50 [=====] - 2s 37ms/step - loss: 0.3903 - val_loss: 0.3635

Epoch 6/100

50/50 [=====] - 2s 39ms/step - loss: 0.3774 - val_loss: 0.3456

Epoch 7/100

50/50 [=====] - 2s 37ms/step - loss: 0.3647 - val_loss: 0.3316

Epoch 8/100

50/50 [=====] - 2s 37ms/step - loss: 0.3505 - val_loss: 0.3267

Epoch 9/100

50/50 [=====] - 2s 37ms/step - loss: 0.3363 - val_loss: 0.3102

Epoch 10/100

50/50 [=====] - 2s 37ms/step - loss: 0.3214 - val_loss: 0.3059

Epoch 11/100

50/50 [=====] - 2s 38ms/step - loss: 0.3166 - val_loss: 0.2937

Epoch 12/100

50/50 [=====] - 2s 37ms/step - loss: 0.3090 - val_loss: 0.2913

Epoch 13/100

50/50 [=====] - 2s 41ms/step - loss: 0.3020 - val_loss: 0.3138

Epoch 14/100

50/50 [=====] - 2s 39ms/step - loss: 0.2988 - val_loss: 0.2879

Epoch 15/100

50/50 [=====] - 2s 37ms/step - loss: 0.2991 - val_loss: 0.2808

Epoch 16/100

50/50 [=====] - 2s 37ms/step - loss: 0.2951 - val_loss: 0.2903

Epoch 17/100

50/50 [=====] - 2s 37ms/step - loss: 0.2944 - val_loss: 0.2825

Epoch 18/100

50/50 [=====] - 2s 37ms/step - loss: 0.2926 - val_loss: 0.2849

Epoch 19/100

50/50 [=====] - 2s 36ms/step - loss: 0.2892 - val_loss: 0.2737

Epoch 20/100

50/50 [=====] - 2s 37ms/step - loss: 0.2908 - val_loss: 0.2791

Epoch 21/100

50/50 [=====] - 2s 36ms/step - loss: 0.2860 - val_loss: 0.2743

Epoch 22/100

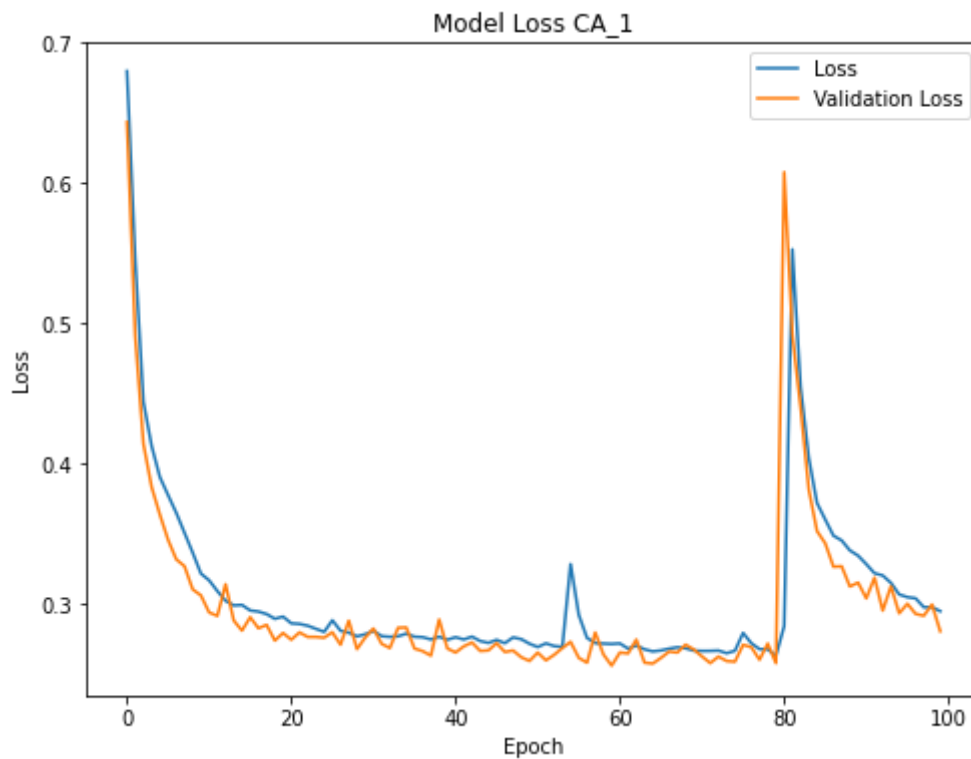
50/50 [=====] - 2s 38ms/step - loss: 0.2856 - val_loss: 0.2795

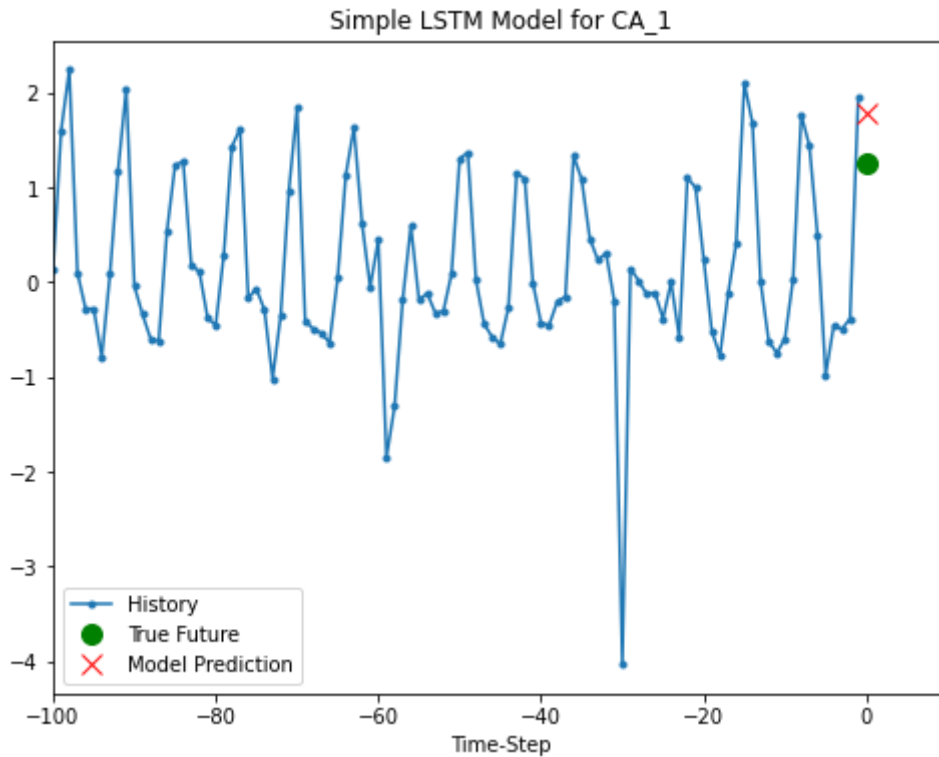
Epoch 23/100
50/50 [=====] - 2s 39ms/step - loss: 0.2843 - val_loss: 0.2763
Epoch 24/100
50/50 [=====] - 2s 40ms/step - loss: 0.2821 - val_loss: 0.2763
Epoch 25/100
50/50 [=====] - 2s 37ms/step - loss: 0.2799 - val_loss: 0.2757
Epoch 26/100
50/50 [=====] - 2s 37ms/step - loss: 0.2881 - val_loss: 0.2796
Epoch 27/100
50/50 [=====] - 2s 36ms/step - loss: 0.2807 - val_loss: 0.2707
Epoch 28/100
50/50 [=====] - 2s 37ms/step - loss: 0.2793 - val_loss: 0.2879
Epoch 29/100
50/50 [=====] - 2s 37ms/step - loss: 0.2767 - val_loss: 0.2676
Epoch 30/100
50/50 [=====] - 2s 36ms/step - loss: 0.2782 - val_loss: 0.2758
Epoch 31/100
50/50 [=====] - 2s 38ms/step - loss: 0.2807 - val_loss: 0.2823
Epoch 32/100
50/50 [=====] - 2s 37ms/step - loss: 0.2768 - val_loss: 0.2714
Epoch 33/100
50/50 [=====] - 2s 37ms/step - loss: 0.2763 - val_loss: 0.2683
Epoch 34/100
50/50 [=====] - 2s 36ms/step - loss: 0.2768 - val_loss: 0.2828
Epoch 35/100
50/50 [=====] - 2s 37ms/step - loss: 0.2786 - val_loss: 0.2830
Epoch 36/100
50/50 [=====] - 2s 36ms/step - loss: 0.2764 - val_loss: 0.2680
Epoch 37/100
50/50 [=====] - 2s 36ms/step - loss: 0.2761 - val_loss: 0.2661
Epoch 38/100
50/50 [=====] - 2s 40ms/step - loss: 0.2745 - val_loss: 0.2629
Epoch 39/100
50/50 [=====] - 2s 38ms/step - loss: 0.2764 - val_loss: 0.2887
Epoch 40/100
50/50 [=====] - 2s 39ms/step - loss: 0.2743 - val_loss: 0.2680
Epoch 41/100
50/50 [=====] - 2s 39ms/step - loss: 0.2761 - val_loss: 0.2652
Epoch 42/100
50/50 [=====] - 2s 38ms/step - loss: 0.2745 - val_loss: 0.2696
Epoch 43/100
50/50 [=====] - 2s 38ms/step - loss: 0.2765 - val_loss: 0.2723
Epoch 44/100
50/50 [=====] - 2s 38ms/step - loss: 0.2733 - val_loss: 0.2663
Epoch 45/100
50/50 [=====] - 2s 38ms/step - loss: 0.2721 - val_loss: 0.2667
Epoch 46/100
50/50 [=====] - 2s 36ms/step - loss: 0.2741 - val_loss: 0.2718

Epoch 47/100
50/50 [=====] - 2s 38ms/step - loss: 0.2718 - val_loss: 0.2655
Epoch 48/100
50/50 [=====] - 2s 37ms/step - loss: 0.2759 - val_loss: 0.2666
Epoch 49/100
50/50 [=====] - 2s 37ms/step - loss: 0.2747 - val_loss: 0.2618
Epoch 50/100
50/50 [=====] - 2s 40ms/step - loss: 0.2714 - val_loss: 0.2591
Epoch 51/100
50/50 [=====] - 2s 40ms/step - loss: 0.2691 - val_loss: 0.2651
Epoch 52/100
50/50 [=====] - 2s 36ms/step - loss: 0.2717 - val_loss: 0.2596
Epoch 53/100
50/50 [=====] - 2s 36ms/step - loss: 0.2698 - val_loss: 0.2635
Epoch 54/100
50/50 [=====] - 2s 37ms/step - loss: 0.2692 - val_loss: 0.2683
Epoch 55/100
50/50 [=====] - 2s 37ms/step - loss: 0.3282 - val_loss: 0.2728
Epoch 56/100
50/50 [=====] - 2s 36ms/step - loss: 0.2920 - val_loss: 0.2613
Epoch 57/100
50/50 [=====] - 2s 38ms/step - loss: 0.2756 - val_loss: 0.2579
Epoch 58/100
50/50 [=====] - 2s 37ms/step - loss: 0.2719 - val_loss: 0.2794
Epoch 59/100
50/50 [=====] - 2s 36ms/step - loss: 0.2715 - val_loss: 0.2638
Epoch 60/100
50/50 [=====] - 2s 38ms/step - loss: 0.2713 - val_loss: 0.2558
Epoch 61/100
50/50 [=====] - 2s 37ms/step - loss: 0.2716 - val_loss: 0.2652
Epoch 62/100
50/50 [=====] - 2s 37ms/step - loss: 0.2679 - val_loss: 0.2645
Epoch 63/100
50/50 [=====] - 2s 38ms/step - loss: 0.2701 - val_loss: 0.2744
Epoch 64/100
50/50 [=====] - 2s 37ms/step - loss: 0.2674 - val_loss: 0.2579
Epoch 65/100
50/50 [=====] - 2s 36ms/step - loss: 0.2660 - val_loss: 0.2573
Epoch 66/100
50/50 [=====] - 2s 36ms/step - loss: 0.2666 - val_loss: 0.2613
Epoch 67/100
50/50 [=====] - 2s 37ms/step - loss: 0.2679 - val_loss: 0.2658
Epoch 68/100
50/50 [=====] - 2s 36ms/step - loss: 0.2689 - val_loss: 0.2652
Epoch 69/100
50/50 [=====] - 2s 38ms/step - loss: 0.2682 - val_loss: 0.2707
Epoch 70/100
50/50 [=====] - 2s 36ms/step - loss: 0.2665 - val_loss: 0.2673

Epoch 71/100
50/50 [=====] - 2s 36ms/step - loss: 0.2663 - val_loss: 0.2623
Epoch 72/100
50/50 [=====] - 2s 36ms/step - loss: 0.2663 - val_loss: 0.2576
Epoch 73/100
50/50 [=====] - 2s 36ms/step - loss: 0.2666 - val_loss: 0.2622
Epoch 74/100
50/50 [=====] - 2s 37ms/step - loss: 0.2647 - val_loss: 0.2591
Epoch 75/100
50/50 [=====] - 2s 39ms/step - loss: 0.2664 - val_loss: 0.2586
Epoch 76/100
50/50 [=====] - 2s 37ms/step - loss: 0.2791 - val_loss: 0.2706
Epoch 77/100
50/50 [=====] - 2s 38ms/step - loss: 0.2718 - val_loss: 0.2690
Epoch 78/100
50/50 [=====] - 2s 37ms/step - loss: 0.2676 - val_loss: 0.2600
Epoch 79/100
50/50 [=====] - 2s 38ms/step - loss: 0.2675 - val_loss: 0.2715
Epoch 80/100
50/50 [=====] - 2s 38ms/step - loss: 0.2628 - val_loss: 0.2576
Epoch 81/100
50/50 [=====] - 2s 38ms/step - loss: 0.2840 - val_loss: 0.6077
Epoch 82/100
50/50 [=====] - 2s 38ms/step - loss: 0.5527 - val_loss: 0.4916
Epoch 83/100
50/50 [=====] - 2s 38ms/step - loss: 0.4545 - val_loss: 0.4399
Epoch 84/100
50/50 [=====] - 2s 37ms/step - loss: 0.4038 - val_loss: 0.3813
Epoch 85/100
50/50 [=====] - 2s 40ms/step - loss: 0.3718 - val_loss: 0.3518
Epoch 86/100
50/50 [=====] - 2s 37ms/step - loss: 0.3600 - val_loss: 0.3430
Epoch 87/100
50/50 [=====] - 2s 37ms/step - loss: 0.3485 - val_loss: 0.3263
Epoch 88/100
50/50 [=====] - 2s 37ms/step - loss: 0.3451 - val_loss: 0.3266
Epoch 89/100
50/50 [=====] - 2s 36ms/step - loss: 0.3380 - val_loss: 0.3122
Epoch 90/100
50/50 [=====] - 2s 37ms/step - loss: 0.3342 - val_loss: 0.3150
Epoch 91/100
50/50 [=====] - 2s 39ms/step - loss: 0.3282 - val_loss: 0.3038
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.3217 - val_loss: 0.3185
Epoch 93/100
50/50 [=====] - 2s 37ms/step - loss: 0.3201 - val_loss: 0.2950
Epoch 94/100
50/50 [=====] - 2s 37ms/step - loss: 0.3148 - val_loss: 0.3124

Epoch 95/100
50/50 [=====] - 2s 37ms/step - loss: 0.3066 - val_loss: 0.2931
Epoch 96/100
50/50 [=====] - 2s 37ms/step - loss: 0.3046 - val_loss: 0.2999
Epoch 97/100
50/50 [=====] - 2s 39ms/step - loss: 0.3038 - val_loss: 0.2927
Epoch 98/100
50/50 [=====] - 2s 36ms/step - loss: 0.2974 - val_loss: 0.2914
Epoch 99/100
50/50 [=====] - 2s 37ms/step - loss: 0.2975 - val_loss: 0.2994
Epoch 100/100
50/50 [=====] - 2s 37ms/step - loss: 0.2946 - val_loss: 0.2803





CA_1 - True Future: 5247

CA_1 - Model Prediction: 5770

CA_1 - Model Percentage Error: 9.97%

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Training Model for CA_2...

Epoch 1/100

50/50 [=====] - 2s 43ms/step - loss: 0.7161 - val_loss: 1.1813

Epoch 2/100

50/50 [=====] - 2s 37ms/step - loss: 0.6028 - val_loss: 1.1099

Epoch 3/100

50/50 [=====] - 2s 37ms/step - loss: 0.4771 - val_loss: 0.9937

Epoch 4/100

50/50 [=====] - 2s 37ms/step - loss: 0.4101 - val_loss: 0.8361

Epoch 5/100

50/50 [=====] - 2s 38ms/step - loss: 0.3534 - val_loss: 0.7608

Epoch 6/100

50/50 [=====] - 2s 36ms/step - loss: 0.3254 - val_loss: 0.7036

Epoch 7/100

50/50 [=====] - 2s 37ms/step - loss: 0.3072 - val_loss: 0.6735

Epoch 8/100

50/50 [=====] - 2s 36ms/step - loss: 0.2979 - val_loss: 0.6803

Epoch 9/100

50/50 [=====] - 2s 37ms/step - loss: 0.2821 - val_loss: 0.6687

Epoch 10/100

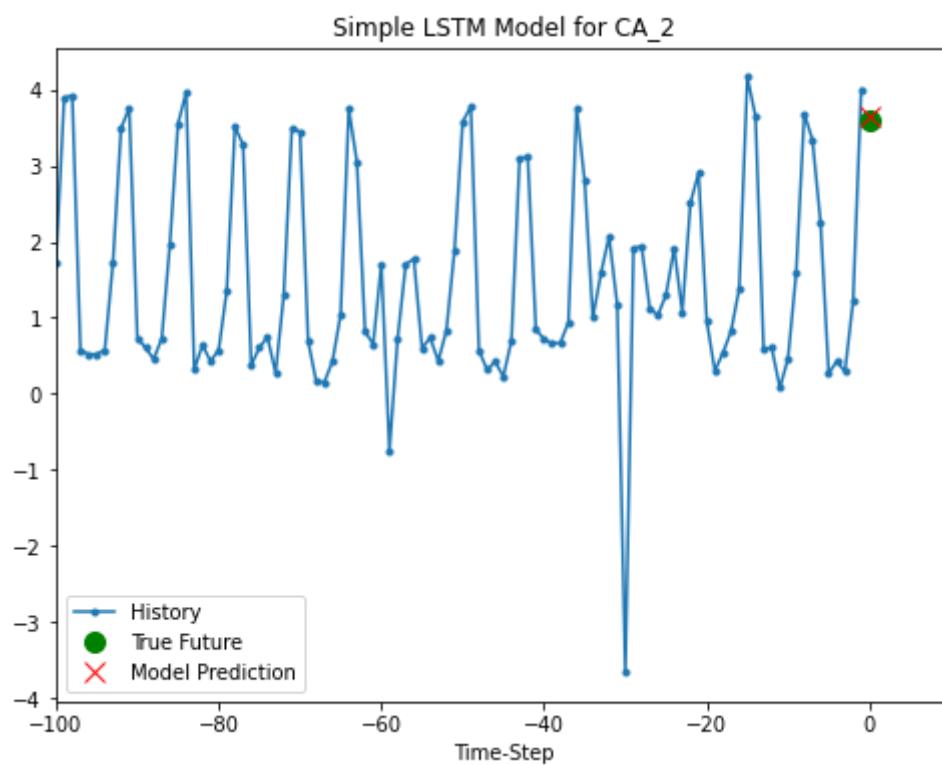
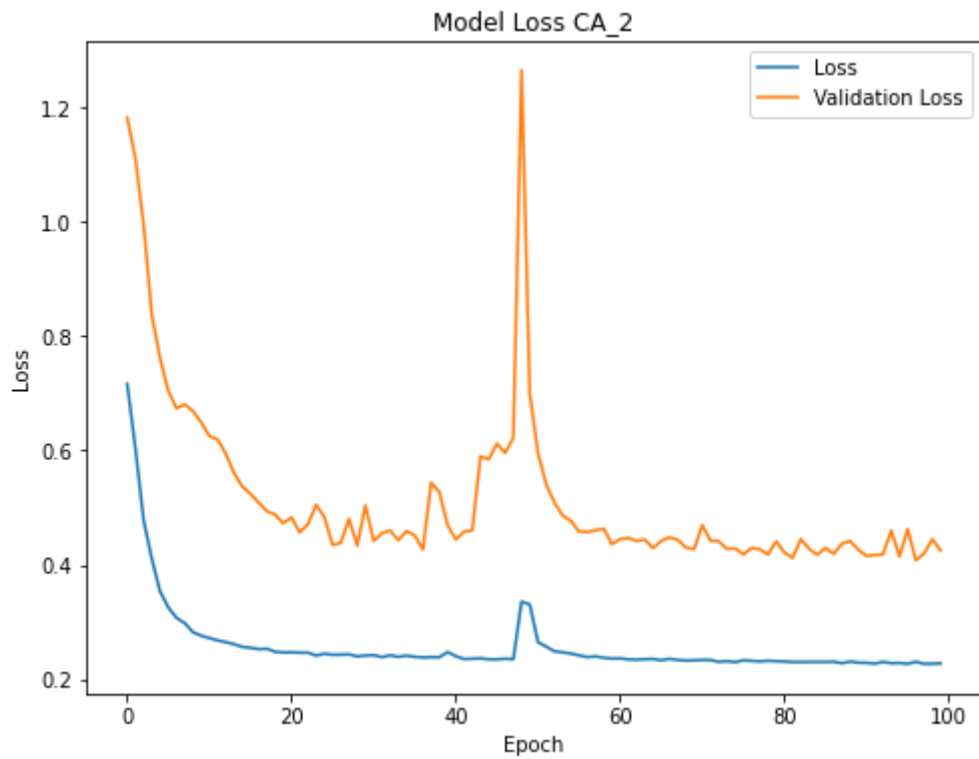
50/50 [=====] - 2s 36ms/step - loss: 0.2760 - val_loss: 0.6490

Epoch 11/100
50/50 [=====] - 2s 37ms/step - loss: 0.2717 - val_loss: 0.6251
Epoch 12/100
50/50 [=====] - 2s 36ms/step - loss: 0.2678 - val_loss: 0.6189
Epoch 13/100
50/50 [=====] - 2s 36ms/step - loss: 0.2646 - val_loss: 0.5942
Epoch 14/100
50/50 [=====] - 2s 40ms/step - loss: 0.2612 - val_loss: 0.5603
Epoch 15/100
50/50 [=====] - 2s 39ms/step - loss: 0.2564 - val_loss: 0.5369
Epoch 16/100
50/50 [=====] - 2s 39ms/step - loss: 0.2548 - val_loss: 0.5240
Epoch 17/100
50/50 [=====] - 2s 36ms/step - loss: 0.2525 - val_loss: 0.5087
Epoch 18/100
50/50 [=====] - 2s 38ms/step - loss: 0.2531 - val_loss: 0.4934
Epoch 19/100
50/50 [=====] - 2s 36ms/step - loss: 0.2479 - val_loss: 0.4879
Epoch 20/100
50/50 [=====] - 2s 39ms/step - loss: 0.2467 - val_loss: 0.4725
Epoch 21/100
50/50 [=====] - 2s 36ms/step - loss: 0.2469 - val_loss: 0.4826
Epoch 22/100
50/50 [=====] - 2s 36ms/step - loss: 0.2463 - val_loss: 0.4566
Epoch 23/100
50/50 [=====] - 2s 36ms/step - loss: 0.2464 - val_loss: 0.4708
Epoch 24/100
50/50 [=====] - 2s 36ms/step - loss: 0.2413 - val_loss: 0.5047
Epoch 25/100
50/50 [=====] - 2s 37ms/step - loss: 0.2445 - val_loss: 0.4833
Epoch 26/100
50/50 [=====] - 2s 37ms/step - loss: 0.2426 - val_loss: 0.4347
Epoch 27/100
50/50 [=====] - 2s 37ms/step - loss: 0.2428 - val_loss: 0.4382
Epoch 28/100
50/50 [=====] - 2s 38ms/step - loss: 0.2433 - val_loss: 0.4803
Epoch 29/100
50/50 [=====] - 2s 36ms/step - loss: 0.2398 - val_loss: 0.4334
Epoch 30/100
50/50 [=====] - 2s 37ms/step - loss: 0.2413 - val_loss: 0.5038
Epoch 31/100
50/50 [=====] - 2s 37ms/step - loss: 0.2420 - val_loss: 0.4414
Epoch 32/100
50/50 [=====] - 2s 36ms/step - loss: 0.2385 - val_loss: 0.4549
Epoch 33/100
50/50 [=====] - 2s 36ms/step - loss: 0.2418 - val_loss: 0.4599
Epoch 34/100
50/50 [=====] - 2s 36ms/step - loss: 0.2390 - val_loss: 0.4428

Epoch 35/100
50/50 [=====] - 2s 38ms/step - loss: 0.2411 - val_loss: 0.4589
Epoch 36/100
50/50 [=====] - 2s 36ms/step - loss: 0.2390 - val_loss: 0.4514
Epoch 37/100
50/50 [=====] - 2s 39ms/step - loss: 0.2379 - val_loss: 0.4267
Epoch 38/100
50/50 [=====] - 2s 39ms/step - loss: 0.2385 - val_loss: 0.5435
Epoch 39/100
50/50 [=====] - 2s 36ms/step - loss: 0.2384 - val_loss: 0.5271
Epoch 40/100
50/50 [=====] - 2s 36ms/step - loss: 0.2475 - val_loss: 0.4690
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.2402 - val_loss: 0.4442
Epoch 42/100
50/50 [=====] - 2s 36ms/step - loss: 0.2353 - val_loss: 0.4578
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.2357 - val_loss: 0.4599
Epoch 44/100
50/50 [=====] - 2s 39ms/step - loss: 0.2365 - val_loss: 0.5896
Epoch 45/100
50/50 [=====] - 2s 40ms/step - loss: 0.2347 - val_loss: 0.5842
Epoch 46/100
50/50 [=====] - 2s 36ms/step - loss: 0.2346 - val_loss: 0.6118
Epoch 47/100
50/50 [=====] - 2s 36ms/step - loss: 0.2357 - val_loss: 0.5954
Epoch 48/100
50/50 [=====] - 2s 38ms/step - loss: 0.2349 - val_loss: 0.6217
Epoch 49/100
50/50 [=====] - 2s 41ms/step - loss: 0.3354 - val_loss: 1.2647
Epoch 50/100
50/50 [=====] - 2s 37ms/step - loss: 0.3307 - val_loss: 0.6998
Epoch 51/100
50/50 [=====] - 2s 37ms/step - loss: 0.2648 - val_loss: 0.5954
Epoch 52/100
50/50 [=====] - 2s 46ms/step - loss: 0.2569 - val_loss: 0.5406
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.2487 - val_loss: 0.5087
Epoch 54/100
50/50 [=====] - 2s 39ms/step - loss: 0.2468 - val_loss: 0.4859
Epoch 55/100
50/50 [=====] - 2s 37ms/step - loss: 0.2448 - val_loss: 0.4771
Epoch 56/100
50/50 [=====] - 2s 38ms/step - loss: 0.2415 - val_loss: 0.4578
Epoch 57/100
50/50 [=====] - 2s 37ms/step - loss: 0.2386 - val_loss: 0.4575
Epoch 58/100
50/50 [=====] - 2s 39ms/step - loss: 0.2399 - val_loss: 0.4600

Epoch 59/100
50/50 [=====] - 2s 38ms/step - loss: 0.2373 - val_loss: 0.4632
Epoch 60/100
50/50 [=====] - 2s 36ms/step - loss: 0.2361 - val_loss: 0.4361
Epoch 61/100
50/50 [=====] - 2s 36ms/step - loss: 0.2362 - val_loss: 0.4446
Epoch 62/100
50/50 [=====] - 2s 36ms/step - loss: 0.2347 - val_loss: 0.4471
Epoch 63/100
50/50 [=====] - 2s 39ms/step - loss: 0.2341 - val_loss: 0.4414
Epoch 64/100
50/50 [=====] - 2s 36ms/step - loss: 0.2349 - val_loss: 0.4440
Epoch 65/100
50/50 [=====] - 2s 36ms/step - loss: 0.2353 - val_loss: 0.4291
Epoch 66/100
50/50 [=====] - 2s 35ms/step - loss: 0.2330 - val_loss: 0.4416
Epoch 67/100
50/50 [=====] - 2s 36ms/step - loss: 0.2356 - val_loss: 0.4479
Epoch 68/100
50/50 [=====] - 2s 36ms/step - loss: 0.2336 - val_loss: 0.4435
Epoch 69/100
50/50 [=====] - 2s 36ms/step - loss: 0.2325 - val_loss: 0.4303
Epoch 70/100
50/50 [=====] - 2s 36ms/step - loss: 0.2329 - val_loss: 0.4272
Epoch 71/100
50/50 [=====] - 2s 37ms/step - loss: 0.2335 - val_loss: 0.4692
Epoch 72/100
50/50 [=====] - 2s 38ms/step - loss: 0.2334 - val_loss: 0.4423
Epoch 73/100
50/50 [=====] - 2s 40ms/step - loss: 0.2303 - val_loss: 0.4412
Epoch 74/100
50/50 [=====] - 2s 37ms/step - loss: 0.2315 - val_loss: 0.4277
Epoch 75/100
50/50 [=====] - 2s 40ms/step - loss: 0.2298 - val_loss: 0.4287
Epoch 76/100
50/50 [=====] - 2s 41ms/step - loss: 0.2329 - val_loss: 0.4181
Epoch 77/100
50/50 [=====] - 2s 37ms/step - loss: 0.2320 - val_loss: 0.4293
Epoch 78/100
50/50 [=====] - 2s 36ms/step - loss: 0.2310 - val_loss: 0.4269
Epoch 79/100
50/50 [=====] - 2s 36ms/step - loss: 0.2321 - val_loss: 0.4180
Epoch 80/100
50/50 [=====] - 2s 37ms/step - loss: 0.2315 - val_loss: 0.4410
Epoch 81/100
50/50 [=====] - 2s 38ms/step - loss: 0.2308 - val_loss: 0.4214
Epoch 82/100
50/50 [=====] - 2s 35ms/step - loss: 0.2301 - val_loss: 0.4118

Epoch 83/100
50/50 [=====] - 2s 37ms/step - loss: 0.2300 - val_loss: 0.4449
Epoch 84/100
50/50 [=====] - 2s 36ms/step - loss: 0.2301 - val_loss: 0.4277
Epoch 85/100
50/50 [=====] - 2s 36ms/step - loss: 0.2301 - val_loss: 0.4174
Epoch 86/100
50/50 [=====] - 2s 39ms/step - loss: 0.2301 - val_loss: 0.4293
Epoch 87/100
50/50 [=====] - 2s 35ms/step - loss: 0.2304 - val_loss: 0.4190
Epoch 88/100
50/50 [=====] - 2s 39ms/step - loss: 0.2280 - val_loss: 0.4368
Epoch 89/100
50/50 [=====] - 2s 36ms/step - loss: 0.2308 - val_loss: 0.4414
Epoch 90/100
50/50 [=====] - 2s 38ms/step - loss: 0.2288 - val_loss: 0.4262
Epoch 91/100
50/50 [=====] - 2s 36ms/step - loss: 0.2286 - val_loss: 0.4154
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.2271 - val_loss: 0.4171
Epoch 93/100
50/50 [=====] - 2s 36ms/step - loss: 0.2302 - val_loss: 0.4180
Epoch 94/100
50/50 [=====] - 2s 36ms/step - loss: 0.2279 - val_loss: 0.4598
Epoch 95/100
50/50 [=====] - 2s 37ms/step - loss: 0.2282 - val_loss: 0.4146
Epoch 96/100
50/50 [=====] - 2s 36ms/step - loss: 0.2269 - val_loss: 0.4624
Epoch 97/100
50/50 [=====] - 2s 37ms/step - loss: 0.2303 - val_loss: 0.4080
Epoch 98/100
50/50 [=====] - 2s 37ms/step - loss: 0.2269 - val_loss: 0.4195
Epoch 99/100
50/50 [=====] - 2s 36ms/step - loss: 0.2270 - val_loss: 0.4446
Epoch 100/100
50/50 [=====] - 2s 38ms/step - loss: 0.2277 - val_loss: 0.4252



CA_2 - True Future: 5647

CA_2 - Model Prediction: 5680

CA_2 - Model Percentage Error: 0.58%

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Training Model for CA_3...

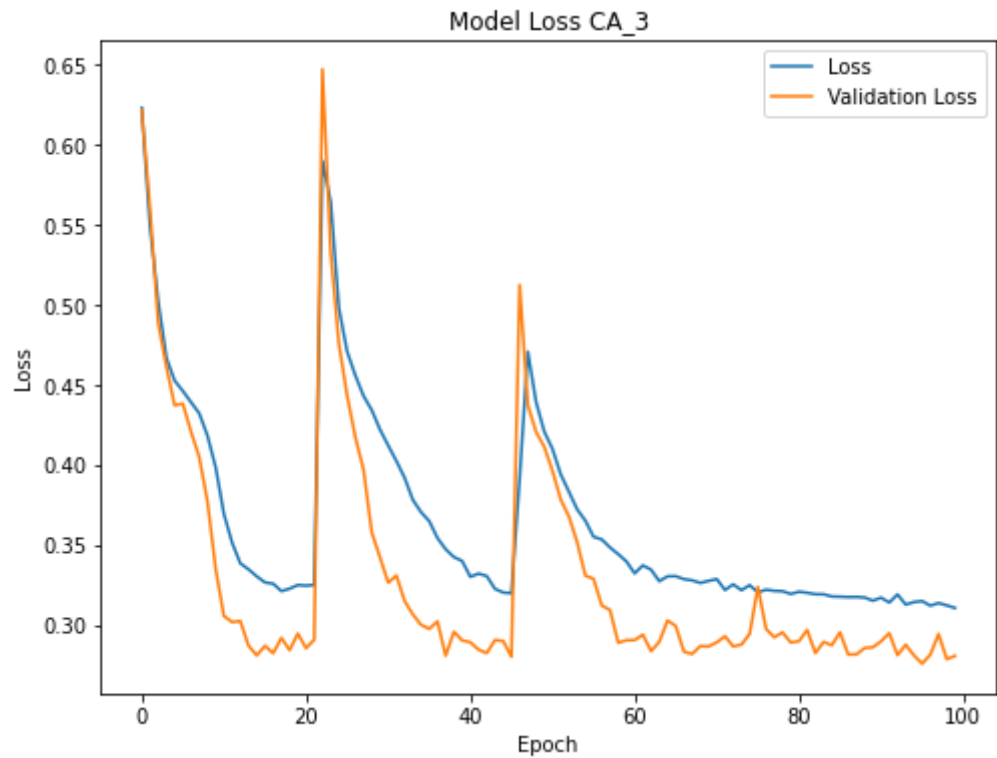
Epoch 1/100
50/50 [=====] - 2s 44ms/step - loss: 0.6230 - val_loss: 0.6217
Epoch 2/100
50/50 [=====] - 2s 37ms/step - loss: 0.5492 - val_loss: 0.5607
Epoch 3/100
50/50 [=====] - 2s 38ms/step - loss: 0.5025 - val_loss: 0.4888
Epoch 4/100
50/50 [=====] - 2s 37ms/step - loss: 0.4670 - val_loss: 0.4615
Epoch 5/100
50/50 [=====] - 2s 36ms/step - loss: 0.4527 - val_loss: 0.4374
Epoch 6/100
50/50 [=====] - 2s 36ms/step - loss: 0.4463 - val_loss: 0.4383
Epoch 7/100
50/50 [=====] - 2s 36ms/step - loss: 0.4393 - val_loss: 0.4208
Epoch 8/100
50/50 [=====] - 2s 38ms/step - loss: 0.4323 - val_loss: 0.4049
Epoch 9/100
50/50 [=====] - 2s 36ms/step - loss: 0.4184 - val_loss: 0.3773
Epoch 10/100
50/50 [=====] - 2s 36ms/step - loss: 0.3986 - val_loss: 0.3352
Epoch 11/100
50/50 [=====] - 2s 37ms/step - loss: 0.3695 - val_loss: 0.3057
Epoch 12/100
50/50 [=====] - 2s 37ms/step - loss: 0.3515 - val_loss: 0.3020
Epoch 13/100
50/50 [=====] - 2s 36ms/step - loss: 0.3386 - val_loss: 0.3026
Epoch 14/100
50/50 [=====] - 2s 37ms/step - loss: 0.3349 - val_loss: 0.2872
Epoch 15/100
50/50 [=====] - 2s 37ms/step - loss: 0.3305 - val_loss: 0.2811
Epoch 16/100
50/50 [=====] - 2s 36ms/step - loss: 0.3267 - val_loss: 0.2871
Epoch 17/100
50/50 [=====] - 2s 37ms/step - loss: 0.3259 - val_loss: 0.2825
Epoch 18/100
50/50 [=====] - 2s 39ms/step - loss: 0.3213 - val_loss: 0.2921
Epoch 19/100
50/50 [=====] - 2s 39ms/step - loss: 0.3228 - val_loss: 0.2844
Epoch 20/100
50/50 [=====] - 2s 36ms/step - loss: 0.3251 - val_loss: 0.2948
Epoch 21/100
50/50 [=====] - 2s 37ms/step - loss: 0.3247 - val_loss: 0.2857
Epoch 22/100
50/50 [=====] - 2s 36ms/step - loss: 0.3252 - val_loss: 0.2909
Epoch 23/100
50/50 [=====] - 2s 37ms/step - loss: 0.5900 - val_loss: 0.6472
Epoch 24/100

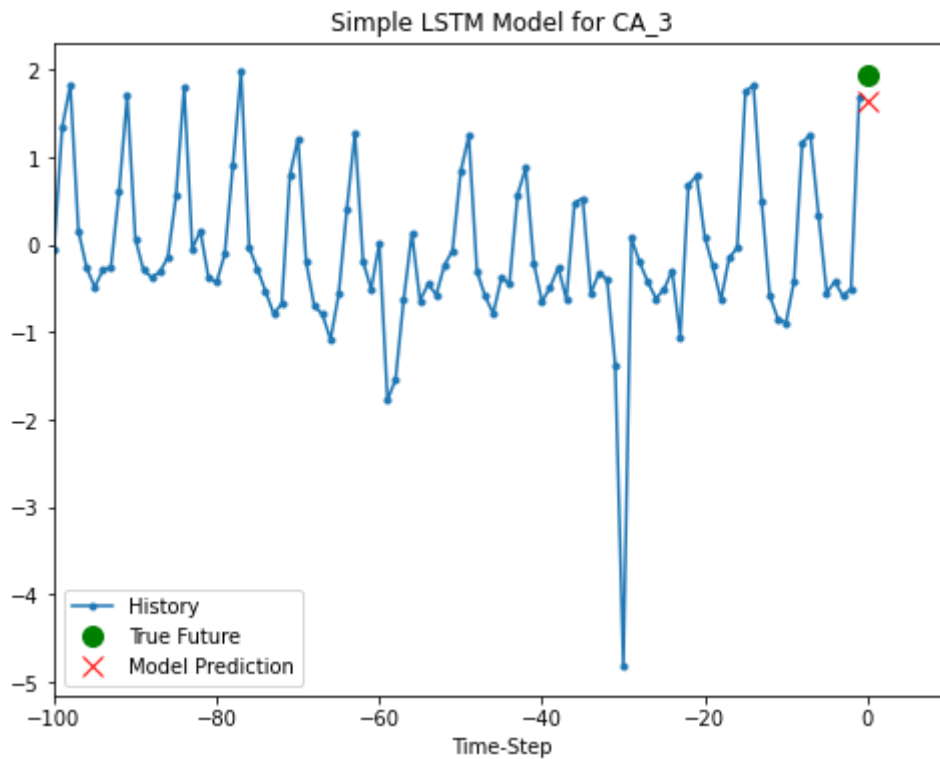
50/50 [=====] - 2s 37ms/step - loss: 0.5644 - val_loss: 0.5328
Epoch 25/100
50/50 [=====] - 2s 37ms/step - loss: 0.4980 - val_loss: 0.4757
Epoch 26/100
50/50 [=====] - 2s 36ms/step - loss: 0.4710 - val_loss: 0.4436
Epoch 27/100
50/50 [=====] - 2s 36ms/step - loss: 0.4560 - val_loss: 0.4175
Epoch 28/100
50/50 [=====] - 2s 36ms/step - loss: 0.4432 - val_loss: 0.3972
Epoch 29/100
50/50 [=====] - 2s 36ms/step - loss: 0.4344 - val_loss: 0.3580
Epoch 30/100
50/50 [=====] - 2s 36ms/step - loss: 0.4222 - val_loss: 0.3424
Epoch 31/100
50/50 [=====] - 2s 36ms/step - loss: 0.4123 - val_loss: 0.3266
Epoch 32/100
50/50 [=====] - 2s 37ms/step - loss: 0.4025 - val_loss: 0.3310
Epoch 33/100
50/50 [=====] - 2s 36ms/step - loss: 0.3921 - val_loss: 0.3151
Epoch 34/100
50/50 [=====] - 2s 37ms/step - loss: 0.3783 - val_loss: 0.3068
Epoch 35/100
50/50 [=====] - 2s 39ms/step - loss: 0.3706 - val_loss: 0.3002
Epoch 36/100
50/50 [=====] - 2s 37ms/step - loss: 0.3650 - val_loss: 0.2977
Epoch 37/100
50/50 [=====] - 2s 36ms/step - loss: 0.3544 - val_loss: 0.3024
Epoch 38/100
50/50 [=====] - 2s 36ms/step - loss: 0.3474 - val_loss: 0.2809
Epoch 39/100
50/50 [=====] - 2s 36ms/step - loss: 0.3426 - val_loss: 0.2959
Epoch 40/100
50/50 [=====] - 2s 36ms/step - loss: 0.3401 - val_loss: 0.2905
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.3302 - val_loss: 0.2893
Epoch 42/100
50/50 [=====] - 2s 38ms/step - loss: 0.3322 - val_loss: 0.2847
Epoch 43/100
50/50 [=====] - 2s 38ms/step - loss: 0.3307 - val_loss: 0.2826
Epoch 44/100
50/50 [=====] - 2s 36ms/step - loss: 0.3227 - val_loss: 0.2907
Epoch 45/100
50/50 [=====] - 2s 36ms/step - loss: 0.3204 - val_loss: 0.2902
Epoch 46/100
50/50 [=====] - 2s 36ms/step - loss: 0.3200 - val_loss: 0.2803
Epoch 47/100
50/50 [=====] - 2s 40ms/step - loss: 0.3918 - val_loss: 0.5125
Epoch 48/100

50/50 [=====] - 2s 36ms/step - loss: 0.4707 - val_loss: 0.4375
Epoch 49/100
50/50 [=====] - 2s 36ms/step - loss: 0.4394 - val_loss: 0.4207
Epoch 50/100
50/50 [=====] - 2s 39ms/step - loss: 0.4209 - val_loss: 0.4114
Epoch 51/100
50/50 [=====] - 2s 39ms/step - loss: 0.4101 - val_loss: 0.3964
Epoch 52/100
50/50 [=====] - 2s 36ms/step - loss: 0.3942 - val_loss: 0.3785
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.3834 - val_loss: 0.3679
Epoch 54/100
50/50 [=====] - 2s 36ms/step - loss: 0.3724 - val_loss: 0.3518
Epoch 55/100
50/50 [=====] - 2s 36ms/step - loss: 0.3653 - val_loss: 0.3310
Epoch 56/100
50/50 [=====] - 2s 36ms/step - loss: 0.3552 - val_loss: 0.3289
Epoch 57/100
50/50 [=====] - 2s 36ms/step - loss: 0.3535 - val_loss: 0.3123
Epoch 58/100
50/50 [=====] - 2s 36ms/step - loss: 0.3485 - val_loss: 0.3095
Epoch 59/100
50/50 [=====] - 2s 37ms/step - loss: 0.3444 - val_loss: 0.2890
Epoch 60/100
50/50 [=====] - 2s 37ms/step - loss: 0.3398 - val_loss: 0.2906
Epoch 61/100
50/50 [=====] - 2s 38ms/step - loss: 0.3324 - val_loss: 0.2907
Epoch 62/100
50/50 [=====] - 2s 36ms/step - loss: 0.3373 - val_loss: 0.2941
Epoch 63/100
50/50 [=====] - 3s 53ms/step - loss: 0.3347 - val_loss: 0.2838
Epoch 64/100
50/50 [=====] - 3s 54ms/step - loss: 0.3275 - val_loss: 0.2896
Epoch 65/100
50/50 [=====] - 2s 44ms/step - loss: 0.3305 - val_loss: 0.3029
Epoch 66/100
50/50 [=====] - 2s 41ms/step - loss: 0.3306 - val_loss: 0.2996
Epoch 67/100
50/50 [=====] - 2s 38ms/step - loss: 0.3288 - val_loss: 0.2835
Epoch 68/100
50/50 [=====] - 2s 37ms/step - loss: 0.3280 - val_loss: 0.2820
Epoch 69/100
50/50 [=====] - 2s 36ms/step - loss: 0.3264 - val_loss: 0.2870
Epoch 70/100
50/50 [=====] - 2s 39ms/step - loss: 0.3277 - val_loss: 0.2867
Epoch 71/100
50/50 [=====] - 2s 38ms/step - loss: 0.3288 - val_loss: 0.2893
Epoch 72/100

50/50 [=====] - 2s 36ms/step - loss: 0.3220 - val_loss: 0.2931
Epoch 73/100
50/50 [=====] - 2s 36ms/step - loss: 0.3255 - val_loss: 0.2868
Epoch 74/100
50/50 [=====] - 2s 36ms/step - loss: 0.3219 - val_loss: 0.2879
Epoch 75/100
50/50 [=====] - 2s 37ms/step - loss: 0.3250 - val_loss: 0.2945
Epoch 76/100
50/50 [=====] - 2s 36ms/step - loss: 0.3205 - val_loss: 0.3239
Epoch 77/100
50/50 [=====] - 2s 37ms/step - loss: 0.3222 - val_loss: 0.2977
Epoch 78/100
50/50 [=====] - 2s 37ms/step - loss: 0.3215 - val_loss: 0.2925
Epoch 79/100
50/50 [=====] - 2s 36ms/step - loss: 0.3212 - val_loss: 0.2955
Epoch 80/100
50/50 [=====] - 2s 38ms/step - loss: 0.3195 - val_loss: 0.2892
Epoch 81/100
50/50 [=====] - 2s 36ms/step - loss: 0.3209 - val_loss: 0.2900
Epoch 82/100
50/50 [=====] - 2s 36ms/step - loss: 0.3202 - val_loss: 0.2970
Epoch 83/100
50/50 [=====] - 2s 36ms/step - loss: 0.3194 - val_loss: 0.2826
Epoch 84/100
50/50 [=====] - 2s 37ms/step - loss: 0.3193 - val_loss: 0.2895
Epoch 85/100
50/50 [=====] - 2s 37ms/step - loss: 0.3179 - val_loss: 0.2874
Epoch 86/100
50/50 [=====] - 2s 36ms/step - loss: 0.3178 - val_loss: 0.2956
Epoch 87/100
50/50 [=====] - 2s 36ms/step - loss: 0.3176 - val_loss: 0.2817
Epoch 88/100
50/50 [=====] - 2s 38ms/step - loss: 0.3176 - val_loss: 0.2818
Epoch 89/100
50/50 [=====] - 2s 36ms/step - loss: 0.3173 - val_loss: 0.2858
Epoch 90/100
50/50 [=====] - 2s 36ms/step - loss: 0.3153 - val_loss: 0.2862
Epoch 91/100
50/50 [=====] - 2s 37ms/step - loss: 0.3172 - val_loss: 0.2900
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.3142 - val_loss: 0.2950
Epoch 93/100
50/50 [=====] - 2s 36ms/step - loss: 0.3192 - val_loss: 0.2813
Epoch 94/100
50/50 [=====] - 2s 36ms/step - loss: 0.3129 - val_loss: 0.2878
Epoch 95/100
50/50 [=====] - 2s 38ms/step - loss: 0.3145 - val_loss: 0.2811
Epoch 96/100

50/50 [=====] - 2s 36ms/step - loss: 0.3151 - val_loss: 0.2760
Epoch 97/100
50/50 [=====] - 2s 36ms/step - loss: 0.3122 - val_loss: 0.2816
Epoch 98/100
50/50 [=====] - 2s 36ms/step - loss: 0.3138 - val_loss: 0.2945
Epoch 99/100
50/50 [=====] - 2s 36ms/step - loss: 0.3124 - val_loss: 0.2788
Epoch 100/100
50/50 [=====] - 2s 36ms/step - loss: 0.3107 - val_loss: 0.2809





CA_3 - True Future: 8164

CA_3 - Model Prediction: 7821

CA_3 - Model Percentage Error: 4.20%

=====
=====

Training Model for CA_4...

Epoch 1/100

50/50 [=====] - 2s 46ms/step - loss: 0.5238 - val_loss: 0.6093

Epoch 2/100

50/50 [=====] - 2s 36ms/step - loss: 0.4744 - val_loss: 0.5502

Epoch 3/100

50/50 [=====] - 2s 37ms/step - loss: 0.4425 - val_loss: 0.4936

Epoch 4/100

50/50 [=====] - 2s 36ms/step - loss: 0.4210 - val_loss: 0.4925

Epoch 5/100

50/50 [=====] - 2s 36ms/step - loss: 0.4098 - val_loss: 0.5231

Epoch 6/100

50/50 [=====] - 2s 36ms/step - loss: 0.4012 - val_loss: 0.4383

Epoch 7/100

50/50 [=====] - 2s 39ms/step - loss: 0.3965 - val_loss: 0.4885

Epoch 8/100

50/50 [=====] - 2s 38ms/step - loss: 0.3874 - val_loss: 0.4809

Epoch 9/100

50/50 [=====] - 2s 36ms/step - loss: 0.3780 - val_loss: 0.4553

Epoch 10/100

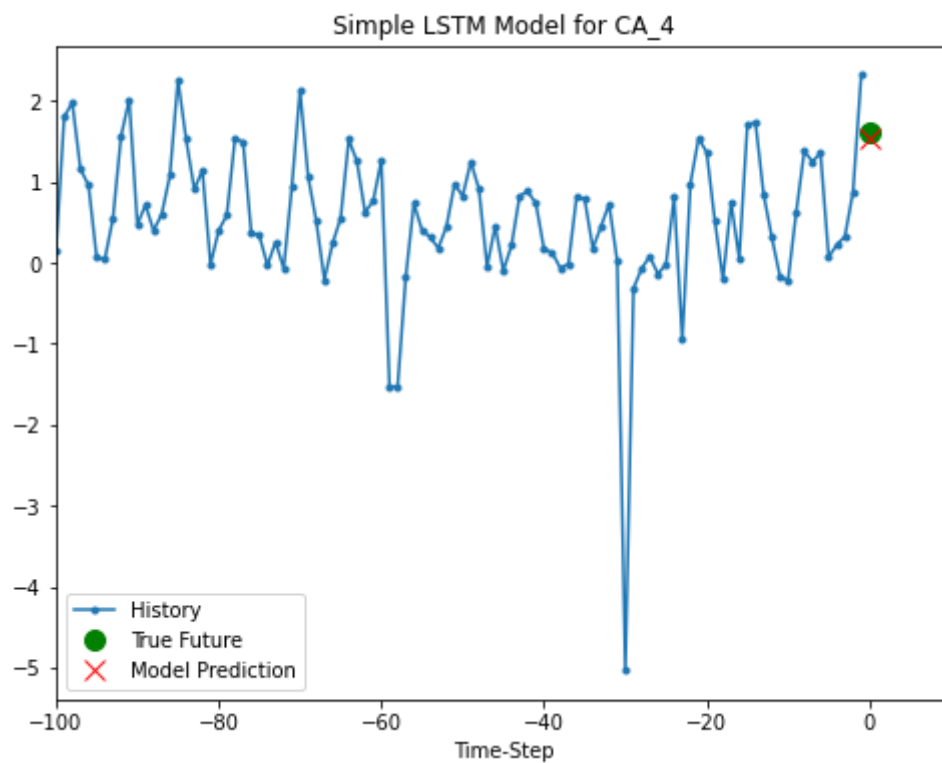
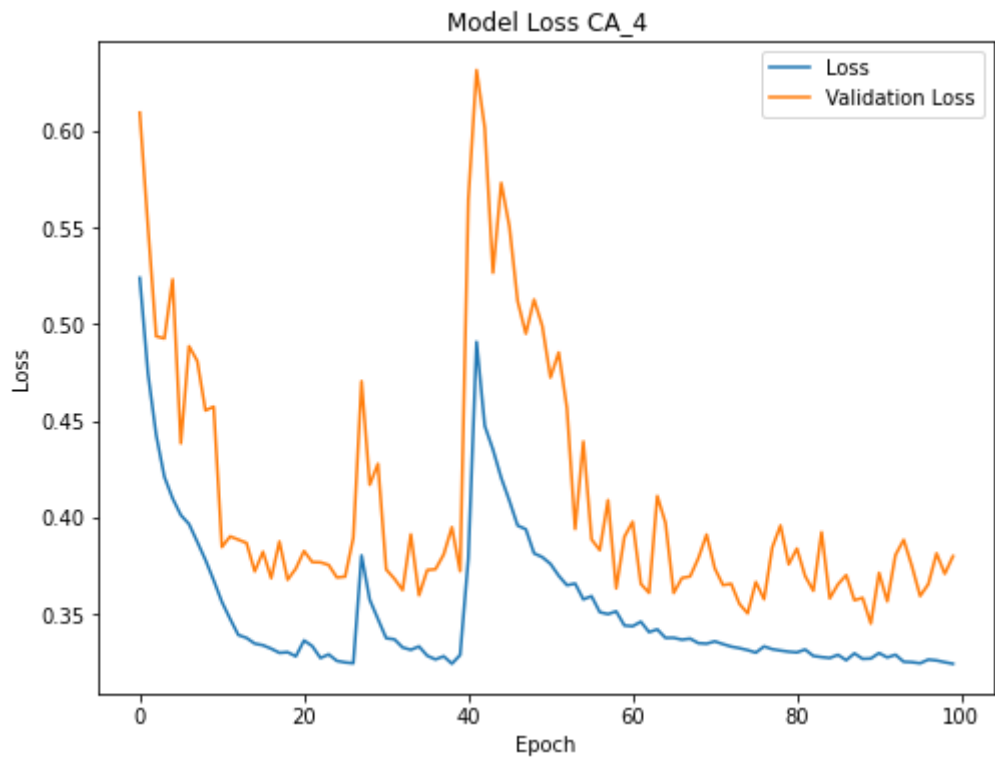
50/50 [=====] - 2s 37ms/step - loss: 0.3675 - val_loss: 0.4573

Epoch 11/100
50/50 [=====] - 2s 36ms/step - loss: 0.3563 - val_loss: 0.3847
Epoch 12/100
50/50 [=====] - 2s 37ms/step - loss: 0.3475 - val_loss: 0.3902
Epoch 13/100
50/50 [=====] - 2s 39ms/step - loss: 0.3392 - val_loss: 0.3885
Epoch 14/100
50/50 [=====] - 2s 37ms/step - loss: 0.3377 - val_loss: 0.3868
Epoch 15/100
50/50 [=====] - 2s 39ms/step - loss: 0.3347 - val_loss: 0.3721
Epoch 16/100
50/50 [=====] - 2s 38ms/step - loss: 0.3339 - val_loss: 0.3822
Epoch 17/100
50/50 [=====] - 2s 37ms/step - loss: 0.3321 - val_loss: 0.3686
Epoch 18/100
50/50 [=====] - 2s 37ms/step - loss: 0.3300 - val_loss: 0.3875
Epoch 19/100
50/50 [=====] - 2s 36ms/step - loss: 0.3303 - val_loss: 0.3677
Epoch 20/100
50/50 [=====] - 2s 37ms/step - loss: 0.3281 - val_loss: 0.3735
Epoch 21/100
50/50 [=====] - 2s 38ms/step - loss: 0.3363 - val_loss: 0.3826
Epoch 22/100
50/50 [=====] - 2s 38ms/step - loss: 0.3334 - val_loss: 0.3769
Epoch 23/100
50/50 [=====] - 2s 37ms/step - loss: 0.3273 - val_loss: 0.3768
Epoch 24/100
50/50 [=====] - 2s 40ms/step - loss: 0.3291 - val_loss: 0.3754
Epoch 25/100
50/50 [=====] - 2s 39ms/step - loss: 0.3258 - val_loss: 0.3689
Epoch 26/100
50/50 [=====] - 2s 36ms/step - loss: 0.3250 - val_loss: 0.3693
Epoch 27/100
50/50 [=====] - 2s 39ms/step - loss: 0.3246 - val_loss: 0.3895
Epoch 28/100
50/50 [=====] - 2s 36ms/step - loss: 0.3803 - val_loss: 0.4704
Epoch 29/100
50/50 [=====] - 2s 37ms/step - loss: 0.3574 - val_loss: 0.4169
Epoch 30/100
50/50 [=====] - 2s 37ms/step - loss: 0.3474 - val_loss: 0.4277
Epoch 31/100
50/50 [=====] - 2s 38ms/step - loss: 0.3375 - val_loss: 0.3731
Epoch 32/100
50/50 [=====] - 2s 38ms/step - loss: 0.3369 - val_loss: 0.3683
Epoch 33/100
50/50 [=====] - 2s 38ms/step - loss: 0.3327 - val_loss: 0.3624
Epoch 34/100
50/50 [=====] - 2s 40ms/step - loss: 0.3315 - val_loss: 0.3912

Epoch 35/100
50/50 [=====] - 2s 38ms/step - loss: 0.3332 - val_loss: 0.3597
Epoch 36/100
50/50 [=====] - 2s 39ms/step - loss: 0.3284 - val_loss: 0.3728
Epoch 37/100
50/50 [=====] - 2s 38ms/step - loss: 0.3265 - val_loss: 0.3732
Epoch 38/100
50/50 [=====] - 2s 37ms/step - loss: 0.3282 - val_loss: 0.3808
Epoch 39/100
50/50 [=====] - 2s 39ms/step - loss: 0.3243 - val_loss: 0.3949
Epoch 40/100
50/50 [=====] - 2s 37ms/step - loss: 0.3288 - val_loss: 0.3722
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.3788 - val_loss: 0.5644
Epoch 42/100
50/50 [=====] - 2s 37ms/step - loss: 0.4908 - val_loss: 0.6314
Epoch 43/100
50/50 [=====] - 2s 40ms/step - loss: 0.4473 - val_loss: 0.6015
Epoch 44/100
50/50 [=====] - 2s 39ms/step - loss: 0.4350 - val_loss: 0.5265
Epoch 45/100
50/50 [=====] - 2s 38ms/step - loss: 0.4205 - val_loss: 0.5730
Epoch 46/100
50/50 [=====] - 2s 38ms/step - loss: 0.4086 - val_loss: 0.5504
Epoch 47/100
50/50 [=====] - 2s 36ms/step - loss: 0.3958 - val_loss: 0.5119
Epoch 48/100
50/50 [=====] - 2s 37ms/step - loss: 0.3938 - val_loss: 0.4950
Epoch 49/100
50/50 [=====] - 2s 37ms/step - loss: 0.3814 - val_loss: 0.5127
Epoch 50/100
50/50 [=====] - 2s 37ms/step - loss: 0.3795 - val_loss: 0.4990
Epoch 51/100
50/50 [=====] - 2s 37ms/step - loss: 0.3759 - val_loss: 0.4723
Epoch 52/100
50/50 [=====] - 2s 37ms/step - loss: 0.3698 - val_loss: 0.4853
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.3649 - val_loss: 0.4566
Epoch 54/100
50/50 [=====] - 2s 37ms/step - loss: 0.3658 - val_loss: 0.3940
Epoch 55/100
50/50 [=====] - 2s 38ms/step - loss: 0.3576 - val_loss: 0.4393
Epoch 56/100
50/50 [=====] - 2s 37ms/step - loss: 0.3592 - val_loss: 0.3886
Epoch 57/100
50/50 [=====] - 2s 37ms/step - loss: 0.3510 - val_loss: 0.3830
Epoch 58/100
50/50 [=====] - 2s 36ms/step - loss: 0.3500 - val_loss: 0.4089

Epoch 59/100
50/50 [=====] - 2s 36ms/step - loss: 0.3514 - val_loss: 0.3633
Epoch 60/100
50/50 [=====] - 2s 37ms/step - loss: 0.3441 - val_loss: 0.3900
Epoch 61/100
50/50 [=====] - 2s 37ms/step - loss: 0.3437 - val_loss: 0.3977
Epoch 62/100
50/50 [=====] - 2s 38ms/step - loss: 0.3460 - val_loss: 0.3656
Epoch 63/100
50/50 [=====] - 2s 36ms/step - loss: 0.3407 - val_loss: 0.3610
Epoch 64/100
50/50 [=====] - 2s 36ms/step - loss: 0.3421 - val_loss: 0.4110
Epoch 65/100
50/50 [=====] - 2s 41ms/step - loss: 0.3377 - val_loss: 0.3971
Epoch 66/100
50/50 [=====] - 2s 38ms/step - loss: 0.3377 - val_loss: 0.3609
Epoch 67/100
50/50 [=====] - 2s 36ms/step - loss: 0.3367 - val_loss: 0.3686
Epoch 68/100
50/50 [=====] - 2s 39ms/step - loss: 0.3373 - val_loss: 0.3695
Epoch 69/100
50/50 [=====] - 2s 36ms/step - loss: 0.3350 - val_loss: 0.3789
Epoch 70/100
50/50 [=====] - 2s 36ms/step - loss: 0.3347 - val_loss: 0.3911
Epoch 71/100
50/50 [=====] - 2s 38ms/step - loss: 0.3359 - val_loss: 0.3736
Epoch 72/100
50/50 [=====] - 2s 37ms/step - loss: 0.3345 - val_loss: 0.3650
Epoch 73/100
50/50 [=====] - 2s 37ms/step - loss: 0.3332 - val_loss: 0.3656
Epoch 74/100
50/50 [=====] - 2s 36ms/step - loss: 0.3324 - val_loss: 0.3553
Epoch 75/100
50/50 [=====] - 2s 36ms/step - loss: 0.3314 - val_loss: 0.3504
Epoch 76/100
50/50 [=====] - 2s 37ms/step - loss: 0.3301 - val_loss: 0.3665
Epoch 77/100
50/50 [=====] - 2s 37ms/step - loss: 0.3333 - val_loss: 0.3577
Epoch 78/100
50/50 [=====] - 2s 37ms/step - loss: 0.3318 - val_loss: 0.3844
Epoch 79/100
50/50 [=====] - 2s 37ms/step - loss: 0.3311 - val_loss: 0.3958
Epoch 80/100
50/50 [=====] - 2s 37ms/step - loss: 0.3305 - val_loss: 0.3757
Epoch 81/100
50/50 [=====] - 2s 37ms/step - loss: 0.3302 - val_loss: 0.3839
Epoch 82/100
50/50 [=====] - 2s 37ms/step - loss: 0.3316 - val_loss: 0.3697

Epoch 83/100
50/50 [=====] - 2s 38ms/step - loss: 0.3284 - val_loss: 0.3620
Epoch 84/100
50/50 [=====] - 2s 36ms/step - loss: 0.3277 - val_loss: 0.3923
Epoch 85/100
50/50 [=====] - 2s 39ms/step - loss: 0.3273 - val_loss: 0.3581
Epoch 86/100
50/50 [=====] - 2s 36ms/step - loss: 0.3289 - val_loss: 0.3654
Epoch 87/100
50/50 [=====] - 2s 37ms/step - loss: 0.3261 - val_loss: 0.3702
Epoch 88/100
50/50 [=====] - 2s 37ms/step - loss: 0.3296 - val_loss: 0.3572
Epoch 89/100
50/50 [=====] - 2s 36ms/step - loss: 0.3269 - val_loss: 0.3584
Epoch 90/100
50/50 [=====] - 2s 36ms/step - loss: 0.3270 - val_loss: 0.3451
Epoch 91/100
50/50 [=====] - 2s 36ms/step - loss: 0.3298 - val_loss: 0.3713
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.3276 - val_loss: 0.3566
Epoch 93/100
50/50 [=====] - 2s 38ms/step - loss: 0.3290 - val_loss: 0.3806
Epoch 94/100
50/50 [=====] - 2s 38ms/step - loss: 0.3253 - val_loss: 0.3884
Epoch 95/100
50/50 [=====] - 2s 37ms/step - loss: 0.3251 - val_loss: 0.3748
Epoch 96/100
50/50 [=====] - 2s 39ms/step - loss: 0.3246 - val_loss: 0.3593
Epoch 97/100
50/50 [=====] - 2s 38ms/step - loss: 0.3265 - val_loss: 0.3655
Epoch 98/100
50/50 [=====] - 2s 37ms/step - loss: 0.3260 - val_loss: 0.3814
Epoch 99/100
50/50 [=====] - 2s 37ms/step - loss: 0.3251 - val_loss: 0.3708
Epoch 100/100
50/50 [=====] - 2s 37ms/step - loss: 0.3243 - val_loss: 0.3799



CA_4 - True Future: 2787

CA_4 - Model Prediction: 2760

CA_4 - Model Percentage Error: 0.97%

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Training Model for TX_1...

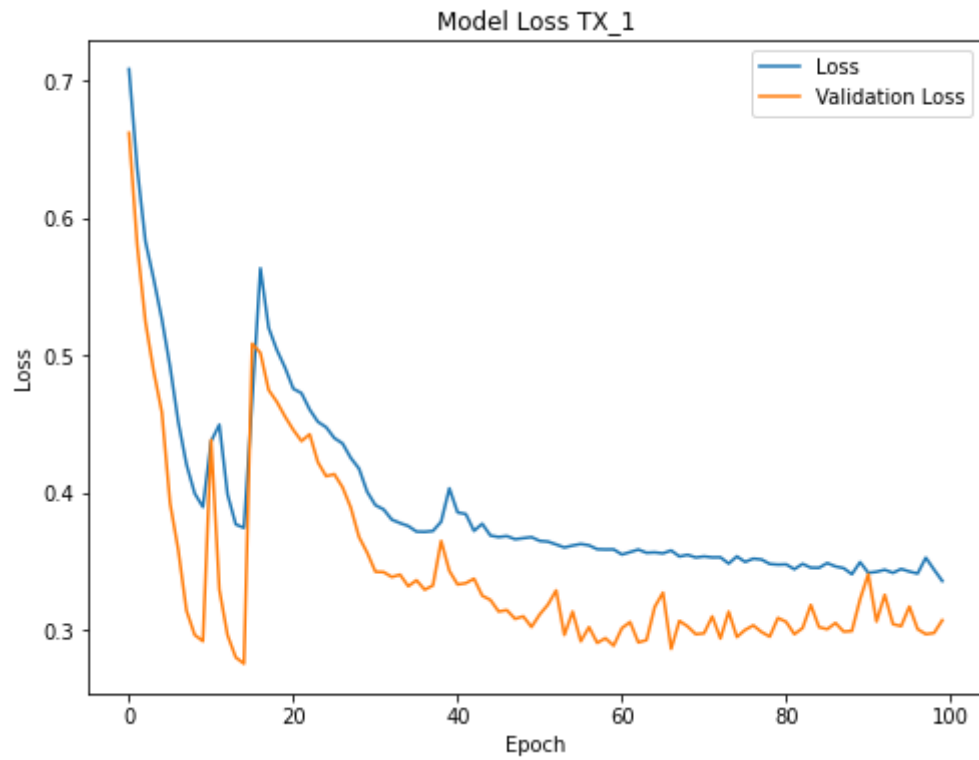
Epoch 1/100
50/50 [=====] - 2s 45ms/step - loss: 0.7087 - val_loss: 0.6622
Epoch 2/100
50/50 [=====] - 2s 36ms/step - loss: 0.6365 - val_loss: 0.5806
Epoch 3/100
50/50 [=====] - 2s 37ms/step - loss: 0.5833 - val_loss: 0.5248
Epoch 4/100
50/50 [=====] - 2s 39ms/step - loss: 0.5560 - val_loss: 0.4888
Epoch 5/100
50/50 [=====] - 2s 36ms/step - loss: 0.5267 - val_loss: 0.4589
Epoch 6/100
50/50 [=====] - 2s 40ms/step - loss: 0.4920 - val_loss: 0.3926
Epoch 7/100
50/50 [=====] - 2s 36ms/step - loss: 0.4517 - val_loss: 0.3584
Epoch 8/100
50/50 [=====] - 2s 39ms/step - loss: 0.4208 - val_loss: 0.3143
Epoch 9/100
50/50 [=====] - 2s 39ms/step - loss: 0.3996 - val_loss: 0.2966
Epoch 10/100
50/50 [=====] - 2s 39ms/step - loss: 0.3898 - val_loss: 0.2920
Epoch 11/100
50/50 [=====] - 2s 36ms/step - loss: 0.4377 - val_loss: 0.4386
Epoch 12/100
50/50 [=====] - 2s 36ms/step - loss: 0.4497 - val_loss: 0.3296
Epoch 13/100
50/50 [=====] - 2s 36ms/step - loss: 0.3989 - val_loss: 0.2963
Epoch 14/100
50/50 [=====] - 2s 37ms/step - loss: 0.3771 - val_loss: 0.2802
Epoch 15/100
50/50 [=====] - 2s 38ms/step - loss: 0.3746 - val_loss: 0.2757
Epoch 16/100
50/50 [=====] - 2s 36ms/step - loss: 0.4679 - val_loss: 0.5087
Epoch 17/100
50/50 [=====] - 2s 36ms/step - loss: 0.5636 - val_loss: 0.5020
Epoch 18/100
50/50 [=====] - 2s 36ms/step - loss: 0.5203 - val_loss: 0.4750
Epoch 19/100
50/50 [=====] - 2s 36ms/step - loss: 0.5041 - val_loss: 0.4664
Epoch 20/100
50/50 [=====] - 2s 37ms/step - loss: 0.4913 - val_loss: 0.4556
Epoch 21/100
50/50 [=====] - 2s 37ms/step - loss: 0.4759 - val_loss: 0.4460
Epoch 22/100
50/50 [=====] - 2s 39ms/step - loss: 0.4727 - val_loss: 0.4378
Epoch 23/100
50/50 [=====] - 2s 38ms/step - loss: 0.4607 - val_loss: 0.4427
Epoch 24/100

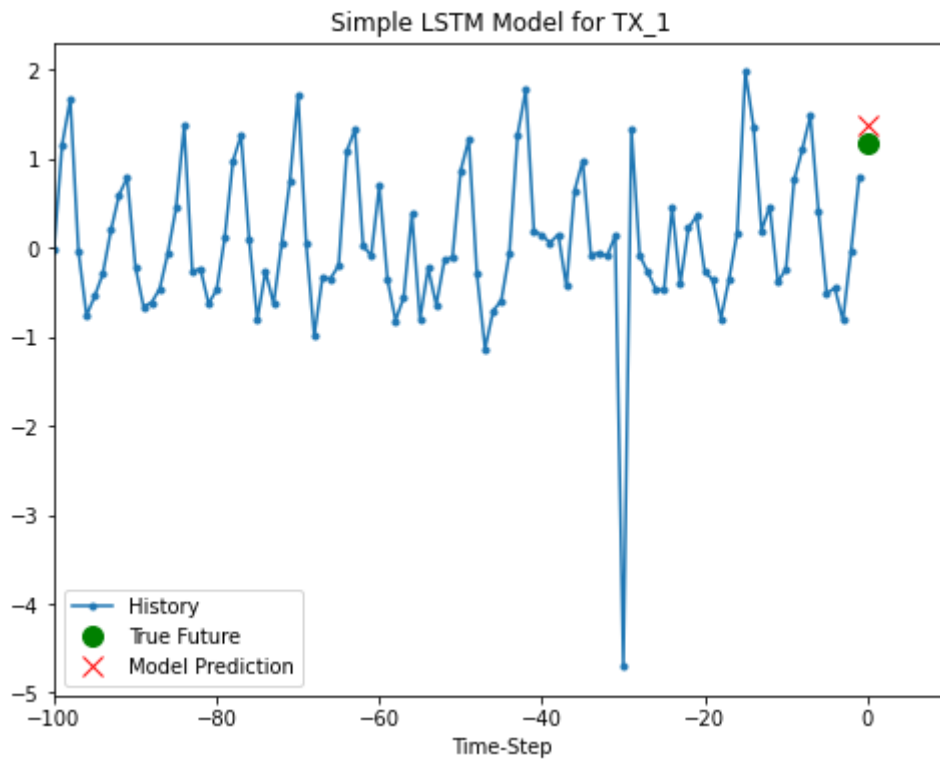
50/50 [=====] - 2s 37ms/step - loss: 0.4518 - val_loss: 0.4224
Epoch 25/100
50/50 [=====] - 2s 37ms/step - loss: 0.4479 - val_loss: 0.4122
Epoch 26/100
50/50 [=====] - 2s 36ms/step - loss: 0.4400 - val_loss: 0.4137
Epoch 27/100
50/50 [=====] - 2s 36ms/step - loss: 0.4360 - val_loss: 0.4041
Epoch 28/100
50/50 [=====] - 2s 37ms/step - loss: 0.4255 - val_loss: 0.3894
Epoch 29/100
50/50 [=====] - 2s 38ms/step - loss: 0.4178 - val_loss: 0.3680
Epoch 30/100
50/50 [=====] - 2s 37ms/step - loss: 0.4008 - val_loss: 0.3565
Epoch 31/100
50/50 [=====] - 2s 37ms/step - loss: 0.3911 - val_loss: 0.3426
Epoch 32/100
50/50 [=====] - 2s 37ms/step - loss: 0.3880 - val_loss: 0.3423
Epoch 33/100
50/50 [=====] - 2s 37ms/step - loss: 0.3805 - val_loss: 0.3388
Epoch 34/100
50/50 [=====] - 2s 39ms/step - loss: 0.3780 - val_loss: 0.3405
Epoch 35/100
50/50 [=====] - 2s 37ms/step - loss: 0.3759 - val_loss: 0.3321
Epoch 36/100
50/50 [=====] - 2s 36ms/step - loss: 0.3718 - val_loss: 0.3364
Epoch 37/100
50/50 [=====] - 2s 39ms/step - loss: 0.3717 - val_loss: 0.3295
Epoch 38/100
50/50 [=====] - 2s 37ms/step - loss: 0.3723 - val_loss: 0.3326
Epoch 39/100
50/50 [=====] - 2s 37ms/step - loss: 0.3790 - val_loss: 0.3650
Epoch 40/100
50/50 [=====] - 2s 36ms/step - loss: 0.4033 - val_loss: 0.3432
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.3858 - val_loss: 0.3333
Epoch 42/100
50/50 [=====] - 2s 38ms/step - loss: 0.3847 - val_loss: 0.3343
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.3724 - val_loss: 0.3376
Epoch 44/100
50/50 [=====] - 2s 37ms/step - loss: 0.3775 - val_loss: 0.3252
Epoch 45/100
50/50 [=====] - 2s 36ms/step - loss: 0.3690 - val_loss: 0.3220
Epoch 46/100
50/50 [=====] - 2s 38ms/step - loss: 0.3679 - val_loss: 0.3136
Epoch 47/100
50/50 [=====] - 2s 39ms/step - loss: 0.3686 - val_loss: 0.3147
Epoch 48/100

50/50 [=====] - 2s 37ms/step - loss: 0.3663 - val_loss: 0.3083
Epoch 49/100
50/50 [=====] - 2s 39ms/step - loss: 0.3671 - val_loss: 0.3101
Epoch 50/100
50/50 [=====] - 2s 36ms/step - loss: 0.3678 - val_loss: 0.3024
Epoch 51/100
50/50 [=====] - 2s 37ms/step - loss: 0.3651 - val_loss: 0.3115
Epoch 52/100
50/50 [=====] - 2s 37ms/step - loss: 0.3646 - val_loss: 0.3186
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.3625 - val_loss: 0.3290
Epoch 54/100
50/50 [=====] - 2s 37ms/step - loss: 0.3603 - val_loss: 0.2966
Epoch 55/100
50/50 [=====] - 2s 38ms/step - loss: 0.3617 - val_loss: 0.3136
Epoch 56/100
50/50 [=====] - 2s 38ms/step - loss: 0.3628 - val_loss: 0.2920
Epoch 57/100
50/50 [=====] - 2s 39ms/step - loss: 0.3619 - val_loss: 0.3023
Epoch 58/100
50/50 [=====] - 2s 37ms/step - loss: 0.3590 - val_loss: 0.2908
Epoch 59/100
50/50 [=====] - 2s 39ms/step - loss: 0.3588 - val_loss: 0.2942
Epoch 60/100
50/50 [=====] - 2s 36ms/step - loss: 0.3589 - val_loss: 0.2887
Epoch 61/100
50/50 [=====] - 2s 38ms/step - loss: 0.3552 - val_loss: 0.3015
Epoch 62/100
50/50 [=====] - 2s 37ms/step - loss: 0.3569 - val_loss: 0.3060
Epoch 63/100
50/50 [=====] - 2s 39ms/step - loss: 0.3588 - val_loss: 0.2911
Epoch 64/100
50/50 [=====] - 2s 37ms/step - loss: 0.3564 - val_loss: 0.2928
Epoch 65/100
50/50 [=====] - 2s 36ms/step - loss: 0.3567 - val_loss: 0.3170
Epoch 66/100
50/50 [=====] - 2s 36ms/step - loss: 0.3560 - val_loss: 0.3274
Epoch 67/100
50/50 [=====] - 2s 37ms/step - loss: 0.3581 - val_loss: 0.2864
Epoch 68/100
50/50 [=====] - 2s 37ms/step - loss: 0.3537 - val_loss: 0.3068
Epoch 69/100
50/50 [=====] - 2s 36ms/step - loss: 0.3549 - val_loss: 0.3028
Epoch 70/100
50/50 [=====] - 2s 36ms/step - loss: 0.3530 - val_loss: 0.2971
Epoch 71/100
50/50 [=====] - 2s 36ms/step - loss: 0.3537 - val_loss: 0.2977
Epoch 72/100

50/50 [=====] - 2s 39ms/step - loss: 0.3531 - val_loss: 0.3100
Epoch 73/100
50/50 [=====] - 2s 40ms/step - loss: 0.3531 - val_loss: 0.2940
Epoch 74/100
50/50 [=====] - 2s 36ms/step - loss: 0.3486 - val_loss: 0.3135
Epoch 75/100
50/50 [=====] - 2s 38ms/step - loss: 0.3538 - val_loss: 0.2951
Epoch 76/100
50/50 [=====] - 2s 39ms/step - loss: 0.3498 - val_loss: 0.3002
Epoch 77/100
50/50 [=====] - 2s 38ms/step - loss: 0.3521 - val_loss: 0.3035
Epoch 78/100
50/50 [=====] - 2s 39ms/step - loss: 0.3515 - val_loss: 0.2987
Epoch 79/100
50/50 [=====] - 2s 37ms/step - loss: 0.3483 - val_loss: 0.2954
Epoch 80/100
50/50 [=====] - 2s 37ms/step - loss: 0.3478 - val_loss: 0.3089
Epoch 81/100
50/50 [=====] - 2s 37ms/step - loss: 0.3480 - val_loss: 0.3061
Epoch 82/100
50/50 [=====] - 2s 37ms/step - loss: 0.3445 - val_loss: 0.2971
Epoch 83/100
50/50 [=====] - 2s 37ms/step - loss: 0.3483 - val_loss: 0.3016
Epoch 84/100
50/50 [=====] - 2s 38ms/step - loss: 0.3456 - val_loss: 0.3184
Epoch 85/100
50/50 [=====] - 2s 37ms/step - loss: 0.3455 - val_loss: 0.3022
Epoch 86/100
50/50 [=====] - 2s 38ms/step - loss: 0.3489 - val_loss: 0.3008
Epoch 87/100
50/50 [=====] - 2s 36ms/step - loss: 0.3465 - val_loss: 0.3053
Epoch 88/100
50/50 [=====] - 2s 39ms/step - loss: 0.3452 - val_loss: 0.2990
Epoch 89/100
50/50 [=====] - 2s 37ms/step - loss: 0.3408 - val_loss: 0.2995
Epoch 90/100
50/50 [=====] - 2s 39ms/step - loss: 0.3496 - val_loss: 0.3226
Epoch 91/100
50/50 [=====] - 2s 36ms/step - loss: 0.3418 - val_loss: 0.3409
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.3426 - val_loss: 0.3063
Epoch 93/100
50/50 [=====] - 2s 36ms/step - loss: 0.3440 - val_loss: 0.3258
Epoch 94/100
50/50 [=====] - 2s 39ms/step - loss: 0.3418 - val_loss: 0.3045
Epoch 95/100
50/50 [=====] - 2s 37ms/step - loss: 0.3446 - val_loss: 0.3030
Epoch 96/100

50/50 [=====] - 2s 38ms/step - loss: 0.3428 - val_loss: 0.3173
Epoch 97/100
50/50 [=====] - 2s 37ms/step - loss: 0.3413 - val_loss: 0.3008
Epoch 98/100
50/50 [=====] - 2s 38ms/step - loss: 0.3529 - val_loss: 0.2971
Epoch 99/100
50/50 [=====] - 2s 38ms/step - loss: 0.3441 - val_loss: 0.2980
Epoch 100/100
50/50 [=====] - 2s 37ms/step - loss: 0.3359 - val_loss: 0.3073





TX_1 - True Future: 3639

TX_1 - Model Prediction: 3753

TX_1 - Model Percentage Error: 3.13%

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Training Model for TX_2...

Epoch 1/100

50/50 [=====] - 2s 41ms/step - loss: 0.7131 - val_loss: 0.6237

Epoch 2/100

50/50 [=====] - 2s 38ms/step - loss: 0.6313 - val_loss: 0.5796

Epoch 3/100

50/50 [=====] - 2s 36ms/step - loss: 0.6037 - val_loss: 0.5551

Epoch 4/100

50/50 [=====] - 2s 37ms/step - loss: 0.5755 - val_loss: 0.5131

Epoch 5/100

50/50 [=====] - 2s 36ms/step - loss: 0.5470 - val_loss: 0.4609

Epoch 6/100

50/50 [=====] - 2s 37ms/step - loss: 0.5113 - val_loss: 0.4247

Epoch 7/100

50/50 [=====] - 2s 40ms/step - loss: 0.4884 - val_loss: 0.4029

Epoch 8/100

50/50 [=====] - 2s 38ms/step - loss: 0.4704 - val_loss: 0.3943

Epoch 9/100

50/50 [=====] - 2s 37ms/step - loss: 0.4554 - val_loss: 0.3815

Epoch 10/100

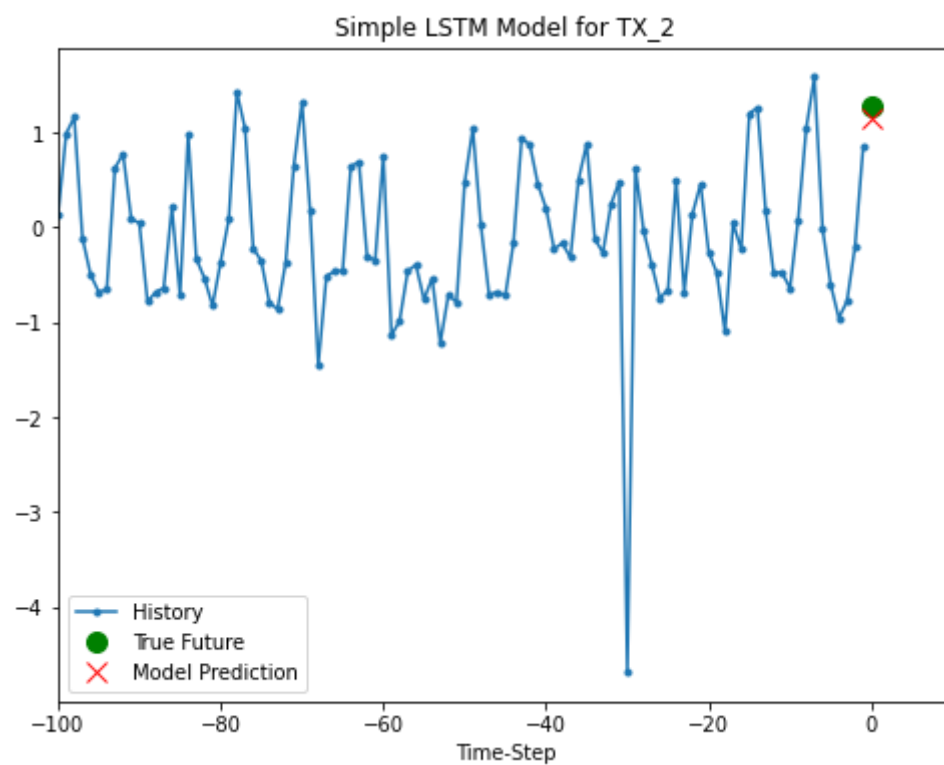
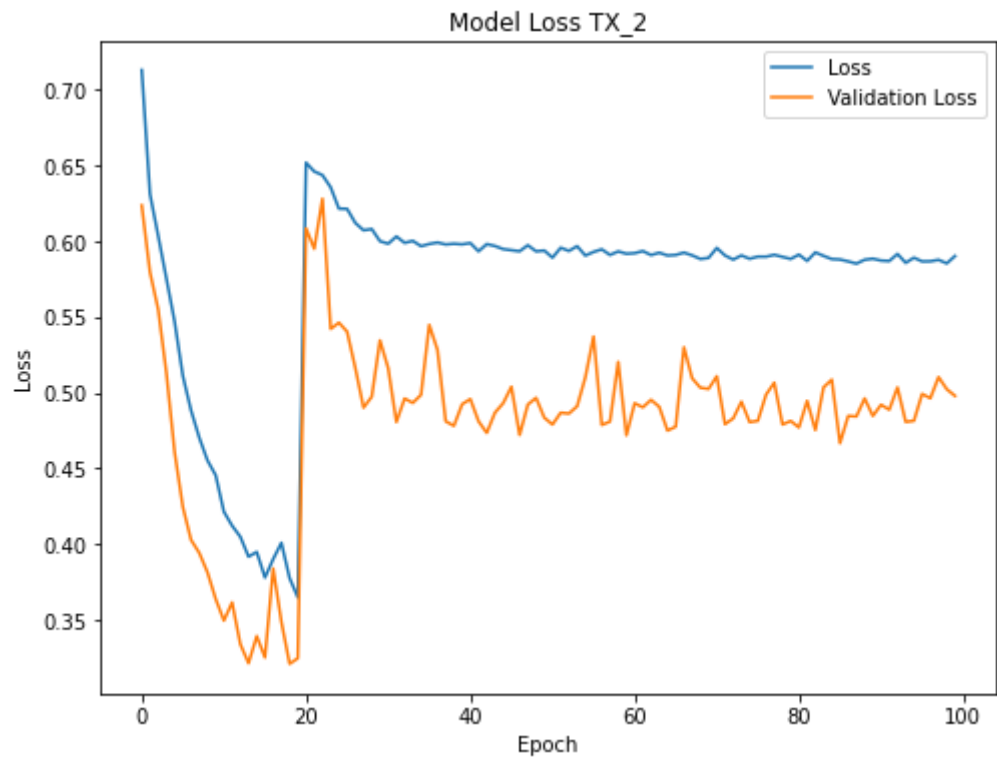
50/50 [=====] - 2s 36ms/step - loss: 0.4456 - val_loss: 0.3639

Epoch 11/100
50/50 [=====] - 2s 36ms/step - loss: 0.4215 - val_loss: 0.3496
Epoch 12/100
50/50 [=====] - 2s 36ms/step - loss: 0.4123 - val_loss: 0.3616
Epoch 13/100
50/50 [=====] - 2s 38ms/step - loss: 0.4050 - val_loss: 0.3341
Epoch 14/100
50/50 [=====] - 2s 38ms/step - loss: 0.3918 - val_loss: 0.3215
Epoch 15/100
50/50 [=====] - 2s 37ms/step - loss: 0.3949 - val_loss: 0.3393
Epoch 16/100
50/50 [=====] - 2s 37ms/step - loss: 0.3780 - val_loss: 0.3253
Epoch 17/100
50/50 [=====] - 2s 35ms/step - loss: 0.3902 - val_loss: 0.3840
Epoch 18/100
50/50 [=====] - 2s 36ms/step - loss: 0.4009 - val_loss: 0.3488
Epoch 19/100
50/50 [=====] - 2s 36ms/step - loss: 0.3776 - val_loss: 0.3211
Epoch 20/100
50/50 [=====] - 2s 38ms/step - loss: 0.3649 - val_loss: 0.3247
Epoch 21/100
50/50 [=====] - 2s 37ms/step - loss: 0.6519 - val_loss: 0.6085
Epoch 22/100
50/50 [=====] - 2s 36ms/step - loss: 0.6462 - val_loss: 0.5951
Epoch 23/100
50/50 [=====] - 2s 38ms/step - loss: 0.6437 - val_loss: 0.6281
Epoch 24/100
50/50 [=====] - 2s 39ms/step - loss: 0.6357 - val_loss: 0.5422
Epoch 25/100
50/50 [=====] - 2s 42ms/step - loss: 0.6216 - val_loss: 0.5463
Epoch 26/100
50/50 [=====] - 2s 38ms/step - loss: 0.6215 - val_loss: 0.5404
Epoch 27/100
50/50 [=====] - 2s 37ms/step - loss: 0.6122 - val_loss: 0.5164
Epoch 28/100
50/50 [=====] - 2s 37ms/step - loss: 0.6073 - val_loss: 0.4902
Epoch 29/100
50/50 [=====] - 2s 38ms/step - loss: 0.6081 - val_loss: 0.4974
Epoch 30/100
50/50 [=====] - 2s 37ms/step - loss: 0.6001 - val_loss: 0.5346
Epoch 31/100
50/50 [=====] - 2s 37ms/step - loss: 0.5985 - val_loss: 0.5163
Epoch 32/100
50/50 [=====] - 2s 36ms/step - loss: 0.6032 - val_loss: 0.4807
Epoch 33/100
50/50 [=====] - 2s 38ms/step - loss: 0.5990 - val_loss: 0.4962
Epoch 34/100
50/50 [=====] - 2s 37ms/step - loss: 0.6003 - val_loss: 0.4933

Epoch 35/100
50/50 [=====] - 2s 37ms/step - loss: 0.5968 - val_loss: 0.4987
Epoch 36/100
50/50 [=====] - 2s 40ms/step - loss: 0.5983 - val_loss: 0.5448
Epoch 37/100
50/50 [=====] - 2s 38ms/step - loss: 0.5993 - val_loss: 0.5283
Epoch 38/100
50/50 [=====] - 2s 39ms/step - loss: 0.5980 - val_loss: 0.4812
Epoch 39/100
50/50 [=====] - 2s 37ms/step - loss: 0.5984 - val_loss: 0.4782
Epoch 40/100
50/50 [=====] - 2s 37ms/step - loss: 0.5981 - val_loss: 0.4925
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.5989 - val_loss: 0.4959
Epoch 42/100
50/50 [=====] - 2s 37ms/step - loss: 0.5935 - val_loss: 0.4812
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.5982 - val_loss: 0.4735
Epoch 44/100
50/50 [=====] - 2s 37ms/step - loss: 0.5969 - val_loss: 0.4869
Epoch 45/100
50/50 [=====] - 2s 39ms/step - loss: 0.5949 - val_loss: 0.4932
Epoch 46/100
50/50 [=====] - 2s 39ms/step - loss: 0.5942 - val_loss: 0.5040
Epoch 47/100
50/50 [=====] - 2s 40ms/step - loss: 0.5935 - val_loss: 0.4722
Epoch 48/100
50/50 [=====] - 2s 39ms/step - loss: 0.5975 - val_loss: 0.4923
Epoch 49/100
50/50 [=====] - 2s 37ms/step - loss: 0.5934 - val_loss: 0.4967
Epoch 50/100
50/50 [=====] - 2s 37ms/step - loss: 0.5940 - val_loss: 0.4836
Epoch 51/100
50/50 [=====] - 2s 38ms/step - loss: 0.5893 - val_loss: 0.4791
Epoch 52/100
50/50 [=====] - 2s 38ms/step - loss: 0.5958 - val_loss: 0.4869
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.5937 - val_loss: 0.4863
Epoch 54/100
50/50 [=====] - 2s 37ms/step - loss: 0.5968 - val_loss: 0.4911
Epoch 55/100
50/50 [=====] - 2s 37ms/step - loss: 0.5906 - val_loss: 0.5103
Epoch 56/100
50/50 [=====] - 2s 39ms/step - loss: 0.5930 - val_loss: 0.5372
Epoch 57/100
50/50 [=====] - 2s 39ms/step - loss: 0.5948 - val_loss: 0.4788
Epoch 58/100
50/50 [=====] - 2s 40ms/step - loss: 0.5910 - val_loss: 0.4810

Epoch 59/100
50/50 [=====] - 2s 38ms/step - loss: 0.5934 - val_loss: 0.5204
Epoch 60/100
50/50 [=====] - 2s 38ms/step - loss: 0.5919 - val_loss: 0.4719
Epoch 61/100
50/50 [=====] - 2s 39ms/step - loss: 0.5922 - val_loss: 0.4931
Epoch 62/100
50/50 [=====] - 2s 37ms/step - loss: 0.5936 - val_loss: 0.4904
Epoch 63/100
50/50 [=====] - 2s 37ms/step - loss: 0.5910 - val_loss: 0.4954
Epoch 64/100
50/50 [=====] - 2s 37ms/step - loss: 0.5925 - val_loss: 0.4907
Epoch 65/100
50/50 [=====] - 2s 37ms/step - loss: 0.5907 - val_loss: 0.4751
Epoch 66/100
50/50 [=====] - 2s 38ms/step - loss: 0.5910 - val_loss: 0.4776
Epoch 67/100
50/50 [=====] - 2s 38ms/step - loss: 0.5926 - val_loss: 0.5301
Epoch 68/100
50/50 [=====] - 2s 40ms/step - loss: 0.5908 - val_loss: 0.5096
Epoch 69/100
50/50 [=====] - 2s 37ms/step - loss: 0.5884 - val_loss: 0.5034
Epoch 70/100
50/50 [=====] - 2s 37ms/step - loss: 0.5891 - val_loss: 0.5026
Epoch 71/100
50/50 [=====] - 2s 37ms/step - loss: 0.5957 - val_loss: 0.5109
Epoch 72/100
50/50 [=====] - 2s 37ms/step - loss: 0.5907 - val_loss: 0.4793
Epoch 73/100
50/50 [=====] - 2s 38ms/step - loss: 0.5880 - val_loss: 0.4831
Epoch 74/100
50/50 [=====] - 2s 36ms/step - loss: 0.5907 - val_loss: 0.4941
Epoch 75/100
50/50 [=====] - 2s 37ms/step - loss: 0.5885 - val_loss: 0.4807
Epoch 76/100
50/50 [=====] - 2s 42ms/step - loss: 0.5899 - val_loss: 0.4815
Epoch 77/100
50/50 [=====] - 3s 56ms/step - loss: 0.5899 - val_loss: 0.4988
Epoch 78/100
50/50 [=====] - 3s 54ms/step - loss: 0.5911 - val_loss: 0.5067
Epoch 79/100
50/50 [=====] - 2s 47ms/step - loss: 0.5898 - val_loss: 0.4791
Epoch 80/100
50/50 [=====] - 2s 38ms/step - loss: 0.5884 - val_loss: 0.4814
Epoch 81/100
50/50 [=====] - 2s 37ms/step - loss: 0.5912 - val_loss: 0.4771
Epoch 82/100
50/50 [=====] - 2s 37ms/step - loss: 0.5871 - val_loss: 0.4947

Epoch 83/100
50/50 [=====] - 2s 37ms/step - loss: 0.5927 - val_loss: 0.4754
Epoch 84/100
50/50 [=====] - 2s 36ms/step - loss: 0.5904 - val_loss: 0.5036
Epoch 85/100
50/50 [=====] - 2s 40ms/step - loss: 0.5883 - val_loss: 0.5087
Epoch 86/100
50/50 [=====] - 2s 39ms/step - loss: 0.5880 - val_loss: 0.4667
Epoch 87/100
50/50 [=====] - 2s 40ms/step - loss: 0.5868 - val_loss: 0.4847
Epoch 88/100
50/50 [=====] - 2s 39ms/step - loss: 0.5853 - val_loss: 0.4844
Epoch 89/100
50/50 [=====] - 2s 37ms/step - loss: 0.5879 - val_loss: 0.4963
Epoch 90/100
50/50 [=====] - 2s 37ms/step - loss: 0.5886 - val_loss: 0.4847
Epoch 91/100
50/50 [=====] - 2s 37ms/step - loss: 0.5873 - val_loss: 0.4921
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.5870 - val_loss: 0.4888
Epoch 93/100
50/50 [=====] - 2s 39ms/step - loss: 0.5917 - val_loss: 0.5036
Epoch 94/100
50/50 [=====] - 2s 37ms/step - loss: 0.5858 - val_loss: 0.4808
Epoch 95/100
50/50 [=====] - 2s 36ms/step - loss: 0.5892 - val_loss: 0.4815
Epoch 96/100
50/50 [=====] - 2s 38ms/step - loss: 0.5868 - val_loss: 0.4993
Epoch 97/100
50/50 [=====] - 2s 38ms/step - loss: 0.5869 - val_loss: 0.4964
Epoch 98/100
50/50 [=====] - 2s 37ms/step - loss: 0.5878 - val_loss: 0.5104
Epoch 99/100
50/50 [=====] - 2s 37ms/step - loss: 0.5855 - val_loss: 0.5024
Epoch 100/100
50/50 [=====] - 2s 37ms/step - loss: 0.5903 - val_loss: 0.4980



TX_2 - True Future: 4794

TX_2 - Model Prediction: 4688

TX_2 - Model Percentage Error: 2.21%

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Training Model for TX_3...

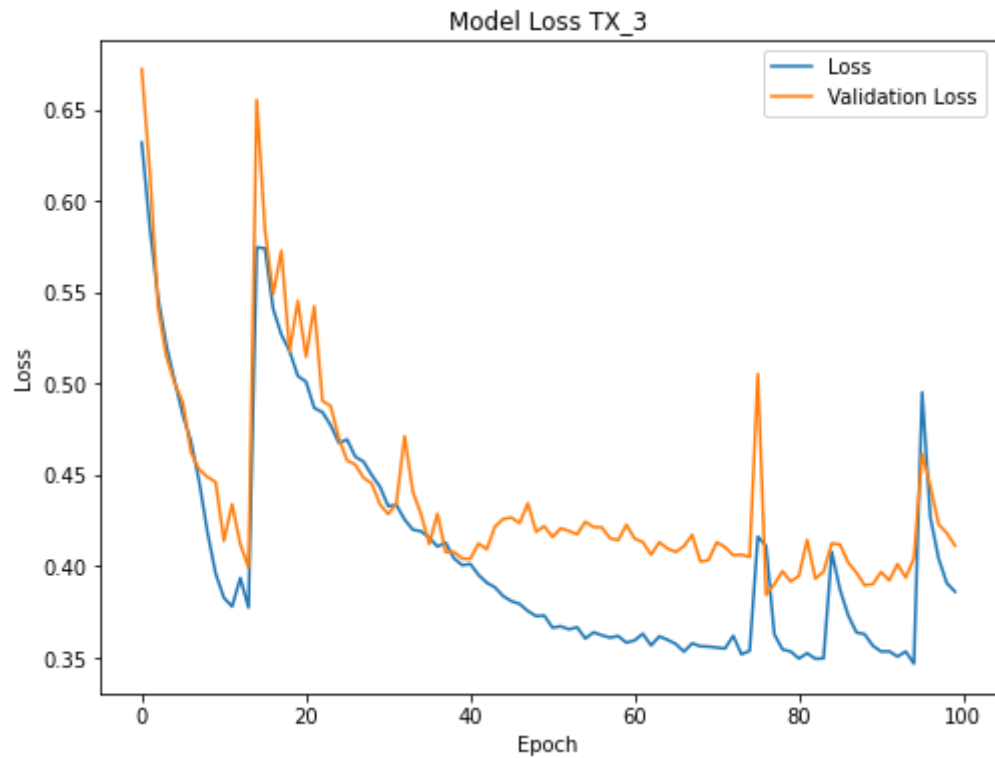
Epoch 1/100
50/50 [=====] - 2s 43ms/step - loss: 0.6321 - val_loss: 0.6723
Epoch 2/100
50/50 [=====] - 2s 35ms/step - loss: 0.5850 - val_loss: 0.6150
Epoch 3/100
50/50 [=====] - 2s 37ms/step - loss: 0.5468 - val_loss: 0.5414
Epoch 4/100
50/50 [=====] - 2s 36ms/step - loss: 0.5210 - val_loss: 0.5148
Epoch 5/100
50/50 [=====] - 2s 36ms/step - loss: 0.5017 - val_loss: 0.5004
Epoch 6/100
50/50 [=====] - 2s 36ms/step - loss: 0.4829 - val_loss: 0.4899
Epoch 7/100
50/50 [=====] - 2s 36ms/step - loss: 0.4683 - val_loss: 0.4623
Epoch 8/100
50/50 [=====] - 2s 36ms/step - loss: 0.4463 - val_loss: 0.4529
Epoch 9/100
50/50 [=====] - 2s 35ms/step - loss: 0.4187 - val_loss: 0.4490
Epoch 10/100
50/50 [=====] - 2s 36ms/step - loss: 0.3960 - val_loss: 0.4462
Epoch 11/100
50/50 [=====] - 2s 36ms/step - loss: 0.3828 - val_loss: 0.4139
Epoch 12/100
50/50 [=====] - 2s 36ms/step - loss: 0.3780 - val_loss: 0.4340
Epoch 13/100
50/50 [=====] - 2s 37ms/step - loss: 0.3936 - val_loss: 0.4120
Epoch 14/100
50/50 [=====] - 2s 38ms/step - loss: 0.3774 - val_loss: 0.3994
Epoch 15/100
50/50 [=====] - 2s 37ms/step - loss: 0.5747 - val_loss: 0.6554
Epoch 16/100
50/50 [=====] - 2s 37ms/step - loss: 0.5742 - val_loss: 0.5844
Epoch 17/100
50/50 [=====] - 2s 38ms/step - loss: 0.5410 - val_loss: 0.5490
Epoch 18/100
50/50 [=====] - 2s 37ms/step - loss: 0.5268 - val_loss: 0.5729
Epoch 19/100
50/50 [=====] - 2s 37ms/step - loss: 0.5179 - val_loss: 0.5178
Epoch 20/100
50/50 [=====] - 2s 37ms/step - loss: 0.5042 - val_loss: 0.5453
Epoch 21/100
50/50 [=====] - 2s 37ms/step - loss: 0.5011 - val_loss: 0.5147
Epoch 22/100
50/50 [=====] - 2s 37ms/step - loss: 0.4867 - val_loss: 0.5424
Epoch 23/100
50/50 [=====] - 2s 36ms/step - loss: 0.4844 - val_loss: 0.4905
Epoch 24/100

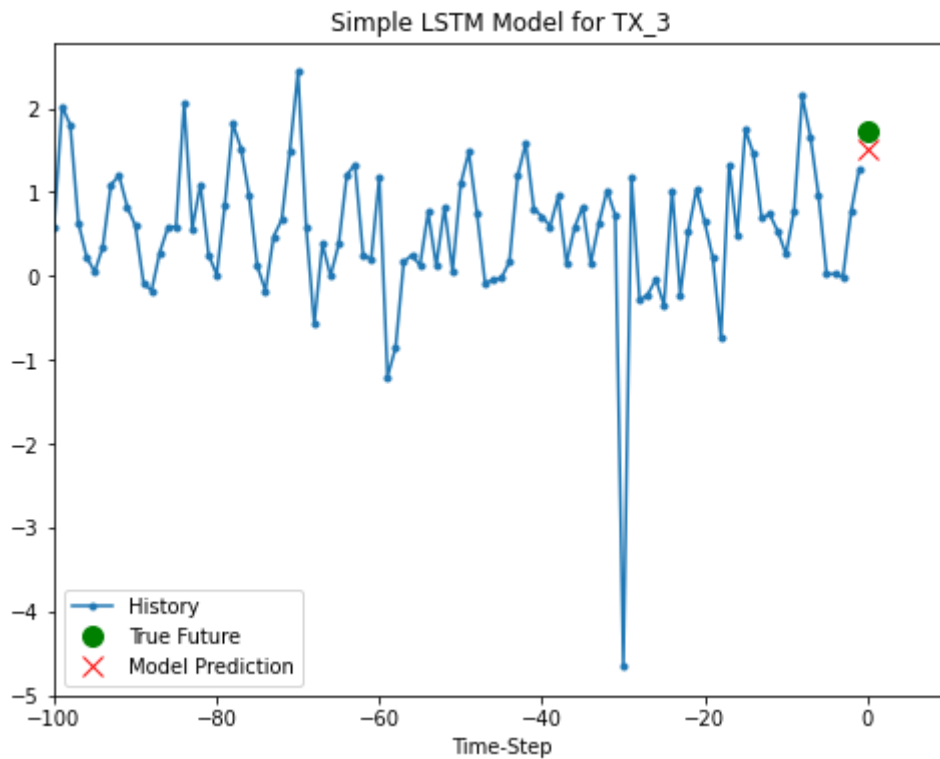
50/50 [=====] - 2s 36ms/step - loss: 0.4773 - val_loss: 0.4878
Epoch 25/100
50/50 [=====] - 2s 36ms/step - loss: 0.4676 - val_loss: 0.4700
Epoch 26/100
50/50 [=====] - 2s 36ms/step - loss: 0.4694 - val_loss: 0.4580
Epoch 27/100
50/50 [=====] - 2s 35ms/step - loss: 0.4600 - val_loss: 0.4557
Epoch 28/100
50/50 [=====] - 2s 36ms/step - loss: 0.4573 - val_loss: 0.4485
Epoch 29/100
50/50 [=====] - 2s 38ms/step - loss: 0.4500 - val_loss: 0.4453
Epoch 30/100
50/50 [=====] - 2s 38ms/step - loss: 0.4436 - val_loss: 0.4339
Epoch 31/100
50/50 [=====] - 2s 41ms/step - loss: 0.4330 - val_loss: 0.4286
Epoch 32/100
50/50 [=====] - 2s 36ms/step - loss: 0.4336 - val_loss: 0.4344
Epoch 33/100
50/50 [=====] - 2s 36ms/step - loss: 0.4256 - val_loss: 0.4713
Epoch 34/100
50/50 [=====] - 2s 38ms/step - loss: 0.4201 - val_loss: 0.4409
Epoch 35/100
50/50 [=====] - 2s 35ms/step - loss: 0.4192 - val_loss: 0.4286
Epoch 36/100
50/50 [=====] - 2s 36ms/step - loss: 0.4158 - val_loss: 0.4123
Epoch 37/100
50/50 [=====] - 2s 36ms/step - loss: 0.4108 - val_loss: 0.4288
Epoch 38/100
50/50 [=====] - 2s 37ms/step - loss: 0.4129 - val_loss: 0.4077
Epoch 39/100
50/50 [=====] - 2s 37ms/step - loss: 0.4044 - val_loss: 0.4079
Epoch 40/100
50/50 [=====] - 2s 35ms/step - loss: 0.4006 - val_loss: 0.4042
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.4013 - val_loss: 0.4041
Epoch 42/100
50/50 [=====] - 2s 36ms/step - loss: 0.3953 - val_loss: 0.4125
Epoch 43/100
50/50 [=====] - 2s 35ms/step - loss: 0.3910 - val_loss: 0.4093
Epoch 44/100
50/50 [=====] - 2s 37ms/step - loss: 0.3885 - val_loss: 0.4217
Epoch 45/100
50/50 [=====] - 2s 41ms/step - loss: 0.3837 - val_loss: 0.4259
Epoch 46/100
50/50 [=====] - 2s 35ms/step - loss: 0.3809 - val_loss: 0.4267
Epoch 47/100
50/50 [=====] - 2s 36ms/step - loss: 0.3794 - val_loss: 0.4236
Epoch 48/100

50/50 [=====] - 2s 37ms/step - loss: 0.3755 - val_loss: 0.4345
Epoch 49/100
50/50 [=====] - 2s 36ms/step - loss: 0.3727 - val_loss: 0.4189
Epoch 50/100
50/50 [=====] - 2s 36ms/step - loss: 0.3730 - val_loss: 0.4220
Epoch 51/100
50/50 [=====] - 2s 38ms/step - loss: 0.3664 - val_loss: 0.4160
Epoch 52/100
50/50 [=====] - 2s 36ms/step - loss: 0.3671 - val_loss: 0.4208
Epoch 53/100
50/50 [=====] - 2s 36ms/step - loss: 0.3655 - val_loss: 0.4193
Epoch 54/100
50/50 [=====] - 2s 40ms/step - loss: 0.3666 - val_loss: 0.4176
Epoch 55/100
50/50 [=====] - 2s 38ms/step - loss: 0.3605 - val_loss: 0.4244
Epoch 56/100
50/50 [=====] - 2s 36ms/step - loss: 0.3639 - val_loss: 0.4214
Epoch 57/100
50/50 [=====] - 2s 36ms/step - loss: 0.3622 - val_loss: 0.4214
Epoch 58/100
50/50 [=====] - 2s 41ms/step - loss: 0.3609 - val_loss: 0.4154
Epoch 59/100
50/50 [=====] - 2s 36ms/step - loss: 0.3618 - val_loss: 0.4143
Epoch 60/100
50/50 [=====] - 2s 35ms/step - loss: 0.3582 - val_loss: 0.4228
Epoch 61/100
50/50 [=====] - 2s 35ms/step - loss: 0.3594 - val_loss: 0.4152
Epoch 62/100
50/50 [=====] - 2s 36ms/step - loss: 0.3631 - val_loss: 0.4133
Epoch 63/100
50/50 [=====] - 2s 36ms/step - loss: 0.3566 - val_loss: 0.4063
Epoch 64/100
50/50 [=====] - 2s 37ms/step - loss: 0.3616 - val_loss: 0.4132
Epoch 65/100
50/50 [=====] - 2s 36ms/step - loss: 0.3598 - val_loss: 0.4097
Epoch 66/100
50/50 [=====] - 2s 36ms/step - loss: 0.3575 - val_loss: 0.4079
Epoch 67/100
50/50 [=====] - 2s 36ms/step - loss: 0.3532 - val_loss: 0.4110
Epoch 68/100
50/50 [=====] - 2s 37ms/step - loss: 0.3578 - val_loss: 0.4172
Epoch 69/100
50/50 [=====] - 2s 36ms/step - loss: 0.3562 - val_loss: 0.4026
Epoch 70/100
50/50 [=====] - 2s 36ms/step - loss: 0.3560 - val_loss: 0.4035
Epoch 71/100
50/50 [=====] - 2s 36ms/step - loss: 0.3555 - val_loss: 0.4132
Epoch 72/100

50/50 [=====] - 2s 35ms/step - loss: 0.3550 - val_loss: 0.4106
Epoch 73/100
50/50 [=====] - 2s 35ms/step - loss: 0.3619 - val_loss: 0.4061
Epoch 74/100
50/50 [=====] - 2s 35ms/step - loss: 0.3519 - val_loss: 0.4064
Epoch 75/100
50/50 [=====] - 2s 36ms/step - loss: 0.3537 - val_loss: 0.4051
Epoch 76/100
50/50 [=====] - 2s 37ms/step - loss: 0.4163 - val_loss: 0.5053
Epoch 77/100
50/50 [=====] - 2s 36ms/step - loss: 0.4111 - val_loss: 0.3844
Epoch 78/100
50/50 [=====] - 2s 36ms/step - loss: 0.3628 - val_loss: 0.3901
Epoch 79/100
50/50 [=====] - 2s 36ms/step - loss: 0.3545 - val_loss: 0.3973
Epoch 80/100
50/50 [=====] - 2s 36ms/step - loss: 0.3534 - val_loss: 0.3917
Epoch 81/100
50/50 [=====] - 2s 38ms/step - loss: 0.3495 - val_loss: 0.3948
Epoch 82/100
50/50 [=====] - 2s 38ms/step - loss: 0.3524 - val_loss: 0.4144
Epoch 83/100
50/50 [=====] - 2s 36ms/step - loss: 0.3494 - val_loss: 0.3932
Epoch 84/100
50/50 [=====] - 2s 37ms/step - loss: 0.3496 - val_loss: 0.3970
Epoch 85/100
50/50 [=====] - 2s 36ms/step - loss: 0.4079 - val_loss: 0.4126
Epoch 86/100
50/50 [=====] - 2s 38ms/step - loss: 0.3873 - val_loss: 0.4120
Epoch 87/100
50/50 [=====] - 2s 36ms/step - loss: 0.3731 - val_loss: 0.4020
Epoch 88/100
50/50 [=====] - 2s 36ms/step - loss: 0.3638 - val_loss: 0.3965
Epoch 89/100
50/50 [=====] - 2s 38ms/step - loss: 0.3628 - val_loss: 0.3896
Epoch 90/100
50/50 [=====] - 2s 36ms/step - loss: 0.3565 - val_loss: 0.3902
Epoch 91/100
50/50 [=====] - 2s 36ms/step - loss: 0.3534 - val_loss: 0.3969
Epoch 92/100
50/50 [=====] - 2s 38ms/step - loss: 0.3534 - val_loss: 0.3923
Epoch 93/100
50/50 [=====] - 2s 35ms/step - loss: 0.3506 - val_loss: 0.4013
Epoch 94/100
50/50 [=====] - 2s 35ms/step - loss: 0.3533 - val_loss: 0.3939
Epoch 95/100
50/50 [=====] - 2s 36ms/step - loss: 0.3467 - val_loss: 0.4044
Epoch 96/100

50/50 [=====] - 2s 36ms/step - loss: 0.4953 - val_loss: 0.4616
Epoch 97/100
50/50 [=====] - 2s 35ms/step - loss: 0.4268 - val_loss: 0.4440
Epoch 98/100
50/50 [=====] - 2s 36ms/step - loss: 0.4044 - val_loss: 0.4231
Epoch 99/100
50/50 [=====] - 2s 35ms/step - loss: 0.3908 - val_loss: 0.4182
Epoch 100/100
50/50 [=====] - 2s 36ms/step - loss: 0.3861 - val_loss: 0.4113





TX_3 - True Future: 4286

TX_3 - Model Prediction: 4146

TX_3 - Model Percentage Error: 3.27%

=====
=====

Training Model for WI_1...

Epoch 1/100

50/50 [=====] - 2s 43ms/step - loss: 0.5301 - val_loss: 0.8651

Epoch 2/100

50/50 [=====] - 2s 37ms/step - loss: 0.4749 - val_loss: 0.7442

Epoch 3/100

50/50 [=====] - 2s 37ms/step - loss: 0.4243 - val_loss: 0.6509

Epoch 4/100

50/50 [=====] - 2s 36ms/step - loss: 0.3809 - val_loss: 0.6674

Epoch 5/100

50/50 [=====] - 2s 36ms/step - loss: 0.3648 - val_loss: 0.6111

Epoch 6/100

50/50 [=====] - 2s 39ms/step - loss: 0.3557 - val_loss: 0.6117

Epoch 7/100

50/50 [=====] - 2s 38ms/step - loss: 0.3474 - val_loss: 0.5965

Epoch 8/100

50/50 [=====] - 2s 36ms/step - loss: 0.3399 - val_loss: 0.5878

Epoch 9/100

50/50 [=====] - 2s 39ms/step - loss: 0.3337 - val_loss: 0.5932

Epoch 10/100

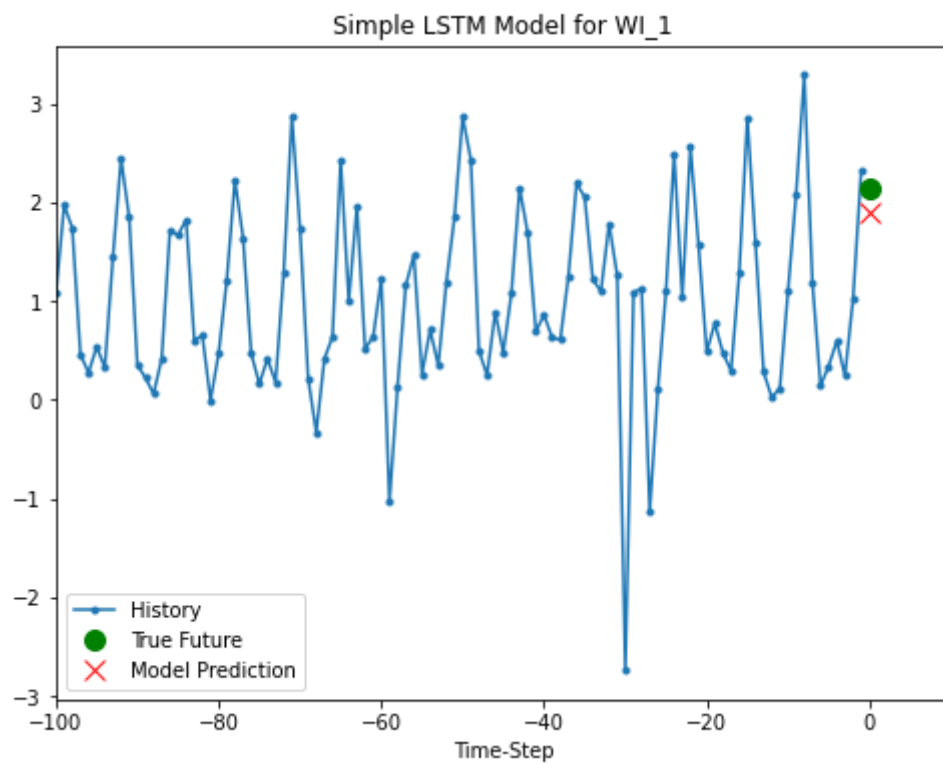
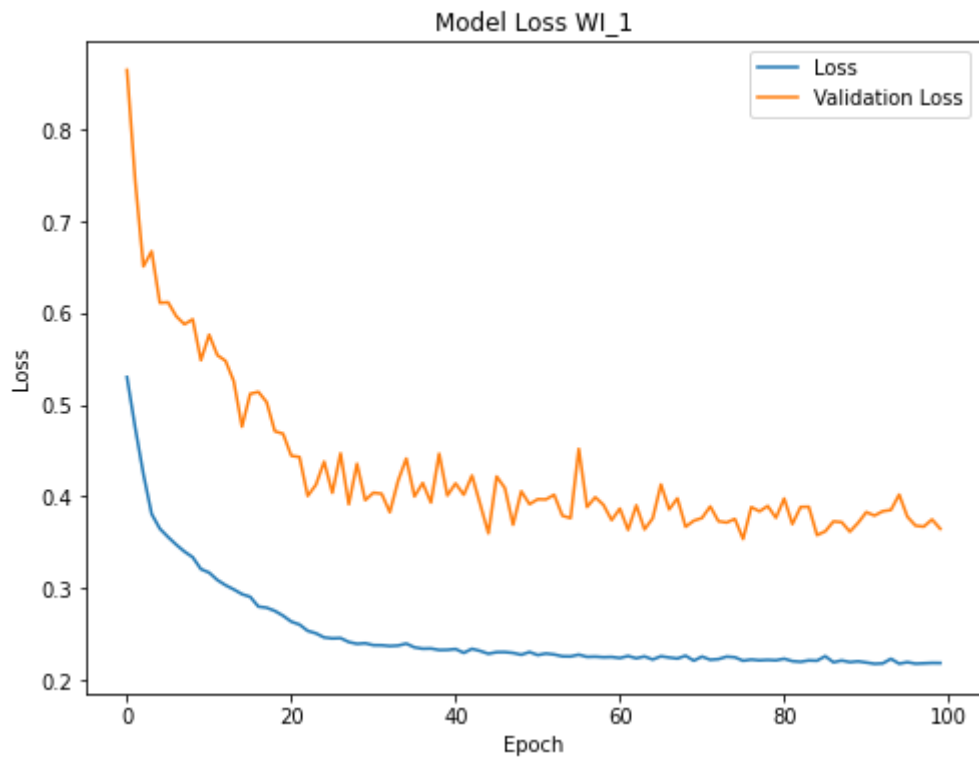
50/50 [=====] - 2s 36ms/step - loss: 0.3207 - val_loss: 0.5485

Epoch 11/100
50/50 [=====] - 2s 36ms/step - loss: 0.3169 - val_loss: 0.5764
Epoch 12/100
50/50 [=====] - 2s 36ms/step - loss: 0.3089 - val_loss: 0.5541
Epoch 13/100
50/50 [=====] - 2s 37ms/step - loss: 0.3032 - val_loss: 0.5478
Epoch 14/100
50/50 [=====] - 2s 37ms/step - loss: 0.2986 - val_loss: 0.5256
Epoch 15/100
50/50 [=====] - 2s 37ms/step - loss: 0.2934 - val_loss: 0.4761
Epoch 16/100
50/50 [=====] - 2s 37ms/step - loss: 0.2905 - val_loss: 0.5120
Epoch 17/100
50/50 [=====] - 2s 37ms/step - loss: 0.2799 - val_loss: 0.5140
Epoch 18/100
50/50 [=====] - 2s 36ms/step - loss: 0.2787 - val_loss: 0.5029
Epoch 19/100
50/50 [=====] - 2s 37ms/step - loss: 0.2751 - val_loss: 0.4711
Epoch 20/100
50/50 [=====] - 2s 36ms/step - loss: 0.2699 - val_loss: 0.4684
Epoch 21/100
50/50 [=====] - 2s 38ms/step - loss: 0.2634 - val_loss: 0.4444
Epoch 22/100
50/50 [=====] - 2s 36ms/step - loss: 0.2603 - val_loss: 0.4430
Epoch 23/100
50/50 [=====] - 2s 37ms/step - loss: 0.2534 - val_loss: 0.4006
Epoch 24/100
50/50 [=====] - 2s 36ms/step - loss: 0.2507 - val_loss: 0.4127
Epoch 25/100
50/50 [=====] - 2s 36ms/step - loss: 0.2462 - val_loss: 0.4379
Epoch 26/100
50/50 [=====] - 2s 37ms/step - loss: 0.2452 - val_loss: 0.4040
Epoch 27/100
50/50 [=====] - 2s 37ms/step - loss: 0.2455 - val_loss: 0.4470
Epoch 28/100
50/50 [=====] - 2s 40ms/step - loss: 0.2412 - val_loss: 0.3914
Epoch 29/100
50/50 [=====] - 2s 39ms/step - loss: 0.2392 - val_loss: 0.4356
Epoch 30/100
50/50 [=====] - 2s 36ms/step - loss: 0.2399 - val_loss: 0.3959
Epoch 31/100
50/50 [=====] - 2s 36ms/step - loss: 0.2378 - val_loss: 0.4040
Epoch 32/100
50/50 [=====] - 2s 37ms/step - loss: 0.2377 - val_loss: 0.4030
Epoch 33/100
50/50 [=====] - 2s 39ms/step - loss: 0.2369 - val_loss: 0.3827
Epoch 34/100
50/50 [=====] - 2s 37ms/step - loss: 0.2373 - val_loss: 0.4170

Epoch 35/100
50/50 [=====] - 2s 36ms/step - loss: 0.2395 - val_loss: 0.4414
Epoch 36/100
50/50 [=====] - 2s 39ms/step - loss: 0.2354 - val_loss: 0.4000
Epoch 37/100
50/50 [=====] - 2s 36ms/step - loss: 0.2339 - val_loss: 0.4146
Epoch 38/100
50/50 [=====] - 2s 36ms/step - loss: 0.2342 - val_loss: 0.3933
Epoch 39/100
50/50 [=====] - 2s 37ms/step - loss: 0.2325 - val_loss: 0.4466
Epoch 40/100
50/50 [=====] - 2s 35ms/step - loss: 0.2327 - val_loss: 0.4010
Epoch 41/100
50/50 [=====] - 2s 36ms/step - loss: 0.2336 - val_loss: 0.4142
Epoch 42/100
50/50 [=====] - 2s 36ms/step - loss: 0.2294 - val_loss: 0.4018
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.2338 - val_loss: 0.4228
Epoch 44/100
50/50 [=====] - 2s 37ms/step - loss: 0.2315 - val_loss: 0.3914
Epoch 45/100
50/50 [=====] - 2s 37ms/step - loss: 0.2284 - val_loss: 0.3598
Epoch 46/100
50/50 [=====] - 2s 36ms/step - loss: 0.2302 - val_loss: 0.4217
Epoch 47/100
50/50 [=====] - 2s 38ms/step - loss: 0.2303 - val_loss: 0.4092
Epoch 48/100
50/50 [=====] - 2s 36ms/step - loss: 0.2293 - val_loss: 0.3691
Epoch 49/100
50/50 [=====] - 2s 36ms/step - loss: 0.2273 - val_loss: 0.4057
Epoch 50/100
50/50 [=====] - 2s 36ms/step - loss: 0.2303 - val_loss: 0.3916
Epoch 51/100
50/50 [=====] - 2s 37ms/step - loss: 0.2270 - val_loss: 0.3969
Epoch 52/100
50/50 [=====] - 2s 36ms/step - loss: 0.2287 - val_loss: 0.3967
Epoch 53/100
50/50 [=====] - 2s 39ms/step - loss: 0.2276 - val_loss: 0.4018
Epoch 54/100
50/50 [=====] - 2s 36ms/step - loss: 0.2257 - val_loss: 0.3790
Epoch 55/100
50/50 [=====] - 2s 36ms/step - loss: 0.2255 - val_loss: 0.3763
Epoch 56/100
50/50 [=====] - 2s 40ms/step - loss: 0.2274 - val_loss: 0.4519
Epoch 57/100
50/50 [=====] - 2s 43ms/step - loss: 0.2250 - val_loss: 0.3885
Epoch 58/100
50/50 [=====] - 2s 37ms/step - loss: 0.2253 - val_loss: 0.3991

Epoch 59/100
50/50 [=====] - 2s 36ms/step - loss: 0.2246 - val_loss: 0.3908
Epoch 60/100
50/50 [=====] - 2s 36ms/step - loss: 0.2249 - val_loss: 0.3741
Epoch 61/100
50/50 [=====] - 2s 36ms/step - loss: 0.2238 - val_loss: 0.3868
Epoch 62/100
50/50 [=====] - 2s 36ms/step - loss: 0.2260 - val_loss: 0.3635
Epoch 63/100
50/50 [=====] - 2s 36ms/step - loss: 0.2235 - val_loss: 0.3903
Epoch 64/100
50/50 [=====] - 2s 37ms/step - loss: 0.2255 - val_loss: 0.3640
Epoch 65/100
50/50 [=====] - 2s 37ms/step - loss: 0.2221 - val_loss: 0.3762
Epoch 66/100
50/50 [=====] - 2s 37ms/step - loss: 0.2257 - val_loss: 0.4131
Epoch 67/100
50/50 [=====] - 2s 39ms/step - loss: 0.2243 - val_loss: 0.3858
Epoch 68/100
50/50 [=====] - 2s 37ms/step - loss: 0.2232 - val_loss: 0.3979
Epoch 69/100
50/50 [=====] - 2s 37ms/step - loss: 0.2263 - val_loss: 0.3669
Epoch 70/100
50/50 [=====] - 2s 36ms/step - loss: 0.2209 - val_loss: 0.3735
Epoch 71/100
50/50 [=====] - 2s 38ms/step - loss: 0.2254 - val_loss: 0.3765
Epoch 72/100
50/50 [=====] - 2s 37ms/step - loss: 0.2219 - val_loss: 0.3891
Epoch 73/100
50/50 [=====] - 2s 36ms/step - loss: 0.2226 - val_loss: 0.3729
Epoch 74/100
50/50 [=====] - 2s 37ms/step - loss: 0.2253 - val_loss: 0.3716
Epoch 75/100
50/50 [=====] - 2s 36ms/step - loss: 0.2246 - val_loss: 0.3754
Epoch 76/100
50/50 [=====] - 2s 38ms/step - loss: 0.2208 - val_loss: 0.3536
Epoch 77/100
50/50 [=====] - 2s 39ms/step - loss: 0.2221 - val_loss: 0.3884
Epoch 78/100
50/50 [=====] - 2s 37ms/step - loss: 0.2213 - val_loss: 0.3837
Epoch 79/100
50/50 [=====] - 2s 38ms/step - loss: 0.2217 - val_loss: 0.3896
Epoch 80/100
50/50 [=====] - 2s 36ms/step - loss: 0.2213 - val_loss: 0.3767
Epoch 81/100
50/50 [=====] - 2s 36ms/step - loss: 0.2230 - val_loss: 0.3977
Epoch 82/100
50/50 [=====] - 2s 38ms/step - loss: 0.2204 - val_loss: 0.3698

Epoch 83/100
50/50 [=====] - 2s 37ms/step - loss: 0.2197 - val_loss: 0.3885
Epoch 84/100
50/50 [=====] - 2s 38ms/step - loss: 0.2212 - val_loss: 0.3887
Epoch 85/100
50/50 [=====] - 2s 37ms/step - loss: 0.2209 - val_loss: 0.3578
Epoch 86/100
50/50 [=====] - 2s 37ms/step - loss: 0.2258 - val_loss: 0.3619
Epoch 87/100
50/50 [=====] - 2s 39ms/step - loss: 0.2191 - val_loss: 0.3727
Epoch 88/100
50/50 [=====] - 2s 37ms/step - loss: 0.2211 - val_loss: 0.3719
Epoch 89/100
50/50 [=====] - 2s 36ms/step - loss: 0.2193 - val_loss: 0.3616
Epoch 90/100
50/50 [=====] - 2s 36ms/step - loss: 0.2201 - val_loss: 0.3712
Epoch 91/100
50/50 [=====] - 2s 36ms/step - loss: 0.2189 - val_loss: 0.3828
Epoch 92/100
50/50 [=====] - 2s 36ms/step - loss: 0.2175 - val_loss: 0.3791
Epoch 93/100
50/50 [=====] - 2s 36ms/step - loss: 0.2179 - val_loss: 0.3839
Epoch 94/100
50/50 [=====] - 2s 36ms/step - loss: 0.2229 - val_loss: 0.3852
Epoch 95/100
50/50 [=====] - 2s 38ms/step - loss: 0.2176 - val_loss: 0.4020
Epoch 96/100
50/50 [=====] - 2s 36ms/step - loss: 0.2193 - val_loss: 0.3779
Epoch 97/100
50/50 [=====] - 2s 36ms/step - loss: 0.2176 - val_loss: 0.3681
Epoch 98/100
50/50 [=====] - 2s 37ms/step - loss: 0.2180 - val_loss: 0.3671
Epoch 99/100
50/50 [=====] - 2s 36ms/step - loss: 0.2184 - val_loss: 0.3748
Epoch 100/100
50/50 [=====] - 2s 38ms/step - loss: 0.2183 - val_loss: 0.3647



WI_1 - True Future: 4600

WI_1 - Model Prediction: 4369

WI_1 - Model Percentage Error: 5.02%

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Training Model for WI_2...

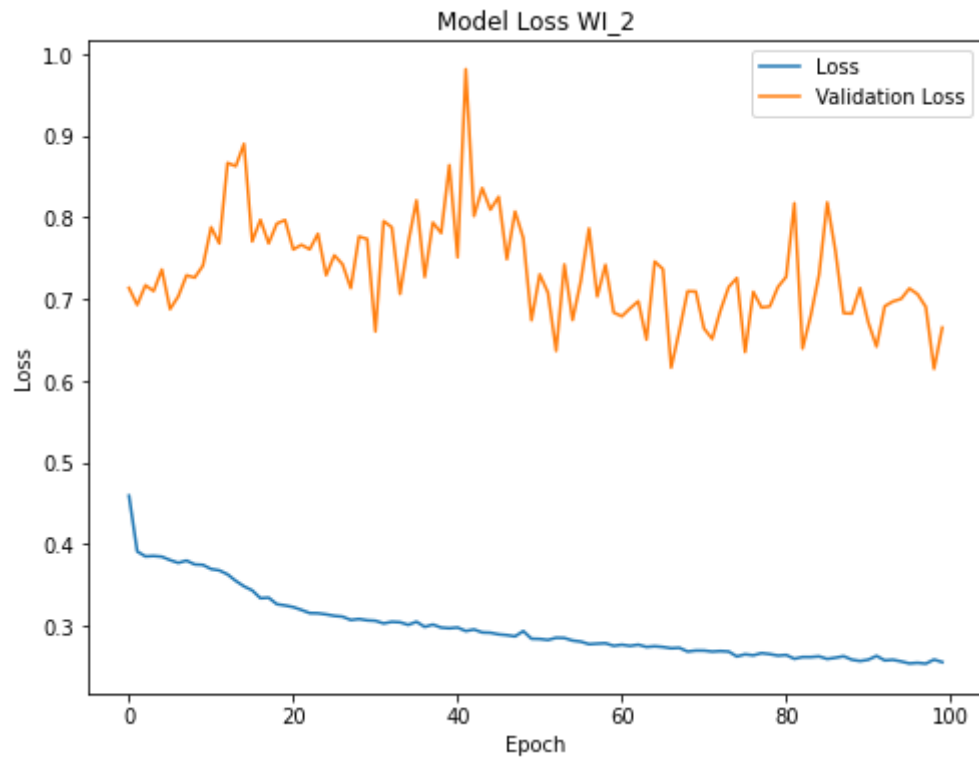
Epoch 1/100
50/50 [=====] - 2s 43ms/step - loss: 0.4596 - val_loss: 0.7138
Epoch 2/100
50/50 [=====] - 2s 36ms/step - loss: 0.3914 - val_loss: 0.6931
Epoch 3/100
50/50 [=====] - 2s 38ms/step - loss: 0.3853 - val_loss: 0.7171
Epoch 4/100
50/50 [=====] - 2s 36ms/step - loss: 0.3858 - val_loss: 0.7100
Epoch 5/100
50/50 [=====] - 2s 39ms/step - loss: 0.3849 - val_loss: 0.7363
Epoch 6/100
50/50 [=====] - 2s 37ms/step - loss: 0.3808 - val_loss: 0.6879
Epoch 7/100
50/50 [=====] - 2s 38ms/step - loss: 0.3774 - val_loss: 0.7035
Epoch 8/100
50/50 [=====] - 2s 37ms/step - loss: 0.3802 - val_loss: 0.7292
Epoch 9/100
50/50 [=====] - 2s 37ms/step - loss: 0.3755 - val_loss: 0.7265
Epoch 10/100
50/50 [=====] - 2s 37ms/step - loss: 0.3749 - val_loss: 0.7410
Epoch 11/100
50/50 [=====] - 2s 37ms/step - loss: 0.3698 - val_loss: 0.7881
Epoch 12/100
50/50 [=====] - 2s 37ms/step - loss: 0.3682 - val_loss: 0.7683
Epoch 13/100
50/50 [=====] - 2s 36ms/step - loss: 0.3633 - val_loss: 0.8668
Epoch 14/100
50/50 [=====] - 2s 38ms/step - loss: 0.3553 - val_loss: 0.8628
Epoch 15/100
50/50 [=====] - 2s 38ms/step - loss: 0.3487 - val_loss: 0.8901
Epoch 16/100
50/50 [=====] - 2s 38ms/step - loss: 0.3437 - val_loss: 0.7707
Epoch 17/100
50/50 [=====] - 2s 37ms/step - loss: 0.3341 - val_loss: 0.7972
Epoch 18/100
50/50 [=====] - 2s 39ms/step - loss: 0.3348 - val_loss: 0.7683
Epoch 19/100
50/50 [=====] - 2s 38ms/step - loss: 0.3268 - val_loss: 0.7926
Epoch 20/100
50/50 [=====] - 2s 38ms/step - loss: 0.3252 - val_loss: 0.7969
Epoch 21/100
50/50 [=====] - 2s 40ms/step - loss: 0.3233 - val_loss: 0.7609
Epoch 22/100
50/50 [=====] - 2s 36ms/step - loss: 0.3198 - val_loss: 0.7665
Epoch 23/100
50/50 [=====] - 2s 36ms/step - loss: 0.3159 - val_loss: 0.7610
Epoch 24/100

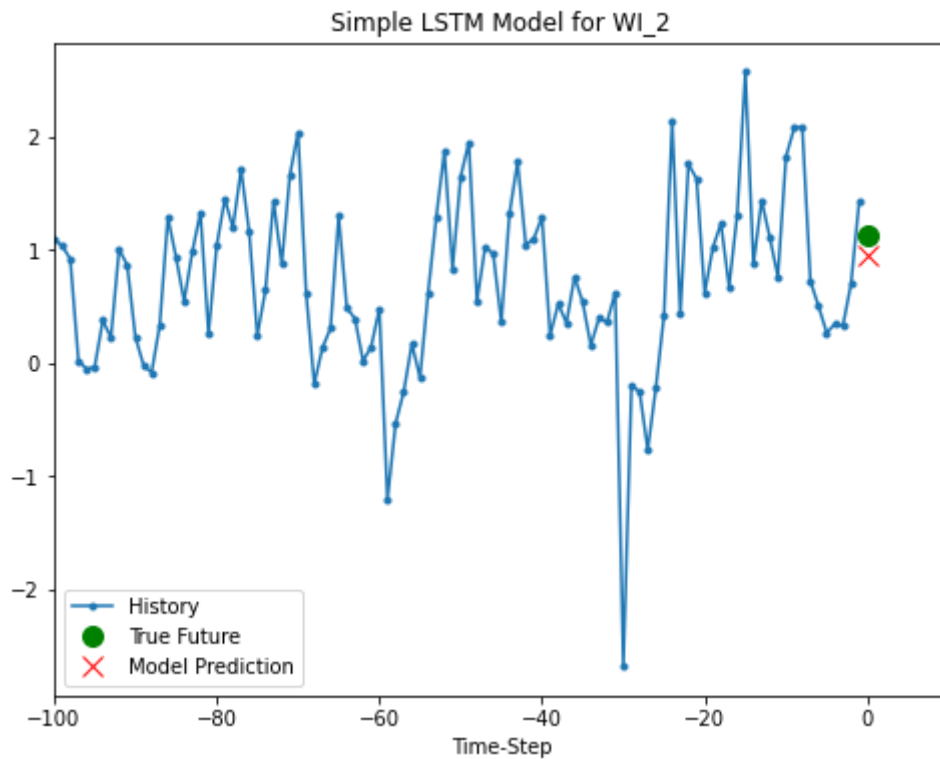
50/50 [=====] - 2s 36ms/step - loss: 0.3157 - val_loss: 0.7800
Epoch 25/100
50/50 [=====] - 2s 37ms/step - loss: 0.3143 - val_loss: 0.7294
Epoch 26/100
50/50 [=====] - 2s 37ms/step - loss: 0.3125 - val_loss: 0.7537
Epoch 27/100
50/50 [=====] - 2s 37ms/step - loss: 0.3115 - val_loss: 0.7427
Epoch 28/100
50/50 [=====] - 2s 36ms/step - loss: 0.3075 - val_loss: 0.7136
Epoch 29/100
50/50 [=====] - 2s 38ms/step - loss: 0.3086 - val_loss: 0.7767
Epoch 30/100
50/50 [=====] - 2s 37ms/step - loss: 0.3071 - val_loss: 0.7737
Epoch 31/100
50/50 [=====] - 2s 37ms/step - loss: 0.3065 - val_loss: 0.6606
Epoch 32/100
50/50 [=====] - 2s 36ms/step - loss: 0.3033 - val_loss: 0.7956
Epoch 33/100
50/50 [=====] - 2s 37ms/step - loss: 0.3052 - val_loss: 0.7880
Epoch 34/100
50/50 [=====] - 2s 38ms/step - loss: 0.3047 - val_loss: 0.7064
Epoch 35/100
50/50 [=====] - 2s 37ms/step - loss: 0.3015 - val_loss: 0.7696
Epoch 36/100
50/50 [=====] - 2s 41ms/step - loss: 0.3053 - val_loss: 0.8210
Epoch 37/100
50/50 [=====] - 2s 41ms/step - loss: 0.2990 - val_loss: 0.7272
Epoch 38/100
50/50 [=====] - 2s 38ms/step - loss: 0.3019 - val_loss: 0.7939
Epoch 39/100
50/50 [=====] - 2s 37ms/step - loss: 0.2981 - val_loss: 0.7809
Epoch 40/100
50/50 [=====] - 2s 39ms/step - loss: 0.2973 - val_loss: 0.8641
Epoch 41/100
50/50 [=====] - 2s 37ms/step - loss: 0.2982 - val_loss: 0.7513
Epoch 42/100
50/50 [=====] - 2s 37ms/step - loss: 0.2939 - val_loss: 0.9816
Epoch 43/100
50/50 [=====] - 2s 36ms/step - loss: 0.2958 - val_loss: 0.8017
Epoch 44/100
50/50 [=====] - 2s 36ms/step - loss: 0.2922 - val_loss: 0.8360
Epoch 45/100
50/50 [=====] - 2s 37ms/step - loss: 0.2919 - val_loss: 0.8096
Epoch 46/100
50/50 [=====] - 2s 38ms/step - loss: 0.2899 - val_loss: 0.8253
Epoch 47/100
50/50 [=====] - 2s 38ms/step - loss: 0.2889 - val_loss: 0.7490
Epoch 48/100

50/50 [=====] - 2s 36ms/step - loss: 0.2874 - val_loss: 0.8074
Epoch 49/100
50/50 [=====] - 2s 36ms/step - loss: 0.2939 - val_loss: 0.7747
Epoch 50/100
50/50 [=====] - 2s 36ms/step - loss: 0.2845 - val_loss: 0.6742
Epoch 51/100
50/50 [=====] - 2s 36ms/step - loss: 0.2842 - val_loss: 0.7304
Epoch 52/100
50/50 [=====] - 2s 36ms/step - loss: 0.2830 - val_loss: 0.7081
Epoch 53/100
50/50 [=====] - 2s 36ms/step - loss: 0.2857 - val_loss: 0.6367
Epoch 54/100
50/50 [=====] - 2s 36ms/step - loss: 0.2854 - val_loss: 0.7426
Epoch 55/100
50/50 [=====] - 2s 36ms/step - loss: 0.2823 - val_loss: 0.6746
Epoch 56/100
50/50 [=====] - 2s 36ms/step - loss: 0.2810 - val_loss: 0.7222
Epoch 57/100
50/50 [=====] - 2s 36ms/step - loss: 0.2779 - val_loss: 0.7867
Epoch 58/100
50/50 [=====] - 2s 37ms/step - loss: 0.2785 - val_loss: 0.7034
Epoch 59/100
50/50 [=====] - 2s 36ms/step - loss: 0.2790 - val_loss: 0.7421
Epoch 60/100
50/50 [=====] - 2s 36ms/step - loss: 0.2758 - val_loss: 0.6837
Epoch 61/100
50/50 [=====] - 2s 36ms/step - loss: 0.2772 - val_loss: 0.6791
Epoch 62/100
50/50 [=====] - 2s 37ms/step - loss: 0.2757 - val_loss: 0.6888
Epoch 63/100
50/50 [=====] - 2s 37ms/step - loss: 0.2772 - val_loss: 0.6975
Epoch 64/100
50/50 [=====] - 2s 36ms/step - loss: 0.2744 - val_loss: 0.6506
Epoch 65/100
50/50 [=====] - 2s 37ms/step - loss: 0.2753 - val_loss: 0.7461
Epoch 66/100
50/50 [=====] - 2s 37ms/step - loss: 0.2744 - val_loss: 0.7369
Epoch 67/100
50/50 [=====] - 2s 35ms/step - loss: 0.2729 - val_loss: 0.6163
Epoch 68/100
50/50 [=====] - 2s 37ms/step - loss: 0.2734 - val_loss: 0.6613
Epoch 69/100
50/50 [=====] - 2s 36ms/step - loss: 0.2688 - val_loss: 0.7097
Epoch 70/100
50/50 [=====] - 2s 37ms/step - loss: 0.2700 - val_loss: 0.7094
Epoch 71/100
50/50 [=====] - 2s 37ms/step - loss: 0.2700 - val_loss: 0.6641
Epoch 72/100

50/50 [=====] - 2s 36ms/step - loss: 0.2688 - val_loss: 0.6515
Epoch 73/100
50/50 [=====] - 2s 36ms/step - loss: 0.2694 - val_loss: 0.6862
Epoch 74/100
50/50 [=====] - 2s 37ms/step - loss: 0.2688 - val_loss: 0.7148
Epoch 75/100
50/50 [=====] - 2s 37ms/step - loss: 0.2628 - val_loss: 0.7260
Epoch 76/100
50/50 [=====] - 2s 37ms/step - loss: 0.2655 - val_loss: 0.6353
Epoch 77/100
50/50 [=====] - 2s 38ms/step - loss: 0.2642 - val_loss: 0.7090
Epoch 78/100
50/50 [=====] - 2s 36ms/step - loss: 0.2669 - val_loss: 0.6899
Epoch 79/100
50/50 [=====] - 2s 36ms/step - loss: 0.2657 - val_loss: 0.6910
Epoch 80/100
50/50 [=====] - 2s 36ms/step - loss: 0.2639 - val_loss: 0.7150
Epoch 81/100
50/50 [=====] - 2s 36ms/step - loss: 0.2646 - val_loss: 0.7274
Epoch 82/100
50/50 [=====] - 2s 36ms/step - loss: 0.2600 - val_loss: 0.8176
Epoch 83/100
50/50 [=====] - 2s 39ms/step - loss: 0.2621 - val_loss: 0.6397
Epoch 84/100
50/50 [=====] - 2s 36ms/step - loss: 0.2621 - val_loss: 0.6802
Epoch 85/100
50/50 [=====] - 2s 37ms/step - loss: 0.2629 - val_loss: 0.7297
Epoch 86/100
50/50 [=====] - 2s 38ms/step - loss: 0.2598 - val_loss: 0.8185
Epoch 87/100
50/50 [=====] - 2s 36ms/step - loss: 0.2613 - val_loss: 0.7591
Epoch 88/100
50/50 [=====] - 2s 36ms/step - loss: 0.2631 - val_loss: 0.6830
Epoch 89/100
50/50 [=====] - 2s 36ms/step - loss: 0.2589 - val_loss: 0.6824
Epoch 90/100
50/50 [=====] - 2s 36ms/step - loss: 0.2572 - val_loss: 0.7136
Epoch 91/100
50/50 [=====] - 2s 36ms/step - loss: 0.2588 - val_loss: 0.6716
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.2635 - val_loss: 0.6420
Epoch 93/100
50/50 [=====] - 2s 36ms/step - loss: 0.2580 - val_loss: 0.6915
Epoch 94/100
50/50 [=====] - 2s 37ms/step - loss: 0.2587 - val_loss: 0.6972
Epoch 95/100
50/50 [=====] - 3s 56ms/step - loss: 0.2567 - val_loss: 0.7005
Epoch 96/100

50/50 [=====] - 3s 52ms/step - loss: 0.2543 - val_loss: 0.7131
Epoch 97/100
50/50 [=====] - 2s 44ms/step - loss: 0.2550 - val_loss: 0.7061
Epoch 98/100
50/50 [=====] - 2s 36ms/step - loss: 0.2540 - val_loss: 0.6905
Epoch 99/100
50/50 [=====] - 2s 36ms/step - loss: 0.2590 - val_loss: 0.6148
Epoch 100/100
50/50 [=====] - 2s 36ms/step - loss: 0.2559 - val_loss: 0.6652





WI_2 - True Future: 4670

WI_2 - Model Prediction: 4453

WI_2 - Model Percentage Error: 4.65%

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Training Model for WI_3...

Epoch 1/100

50/50 [=====] - 2s 44ms/step - loss: 0.6960 - val_loss: 0.8334

Epoch 2/100

50/50 [=====] - 2s 36ms/step - loss: 0.6308 - val_loss: 0.7487

Epoch 3/100

50/50 [=====] - 2s 37ms/step - loss: 0.5844 - val_loss: 0.7094

Epoch 4/100

50/50 [=====] - 2s 38ms/step - loss: 0.5755 - val_loss: 0.6777

Epoch 5/100

50/50 [=====] - 2s 36ms/step - loss: 0.5668 - val_loss: 0.6554

Epoch 6/100

50/50 [=====] - 2s 37ms/step - loss: 0.5586 - val_loss: 0.6410

Epoch 7/100

50/50 [=====] - 2s 37ms/step - loss: 0.5546 - val_loss: 0.6482

Epoch 8/100

50/50 [=====] - 2s 38ms/step - loss: 0.5456 - val_loss: 0.6463

Epoch 9/100

50/50 [=====] - 2s 37ms/step - loss: 0.5381 - val_loss: 0.6255

Epoch 10/100

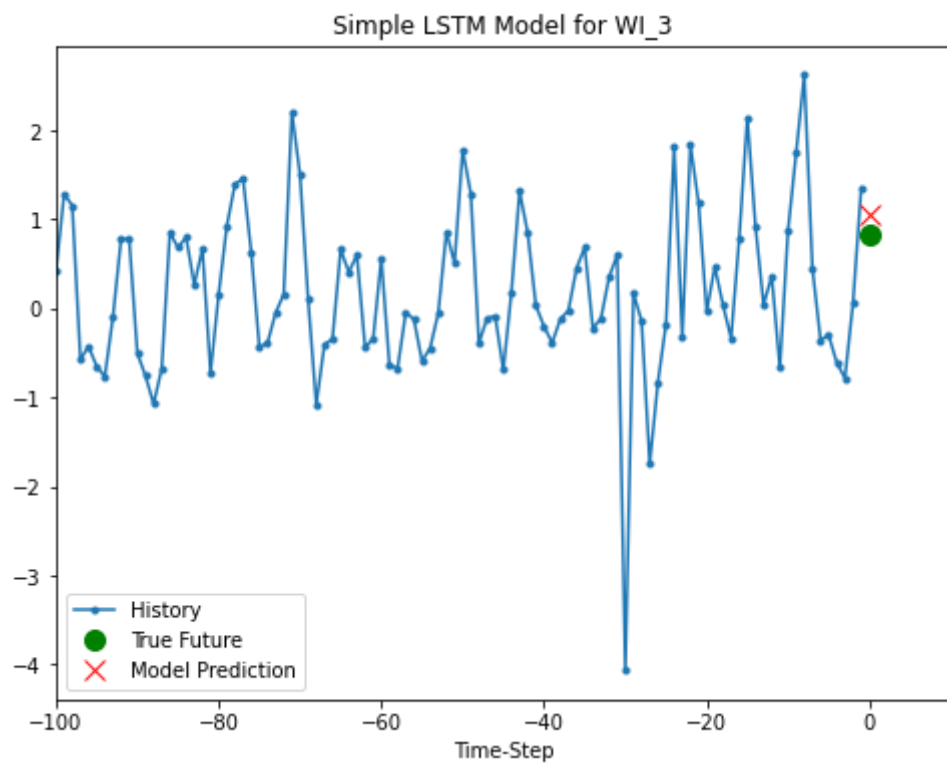
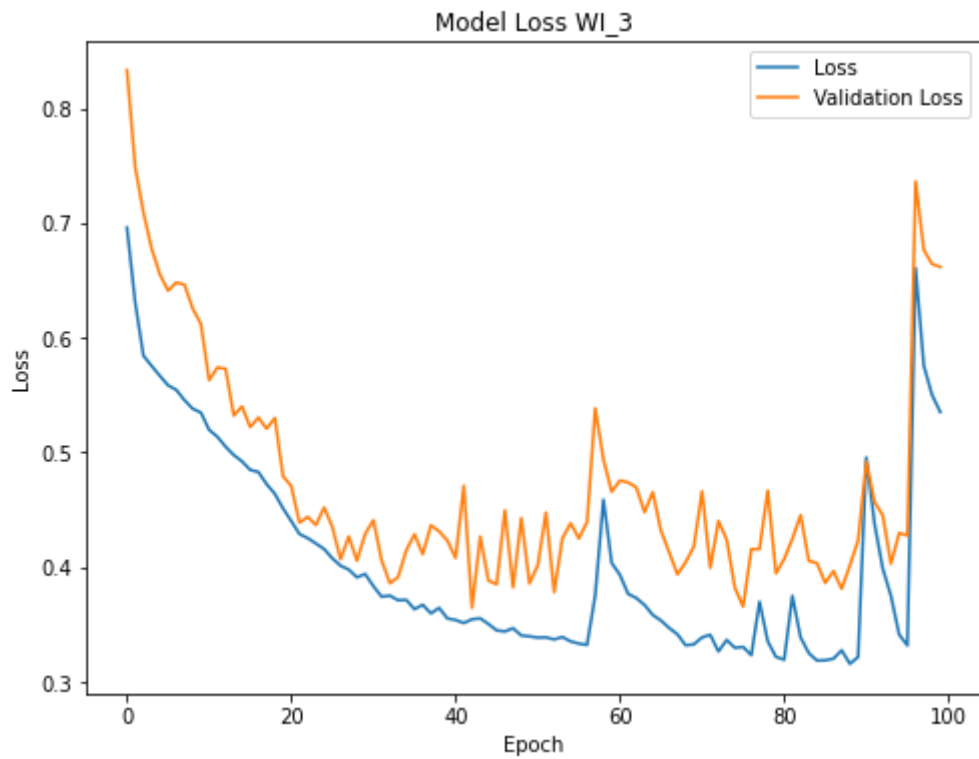
50/50 [=====] - 2s 36ms/step - loss: 0.5348 - val_loss: 0.6121

Epoch 11/100
50/50 [=====] - 2s 36ms/step - loss: 0.5197 - val_loss: 0.5630
Epoch 12/100
50/50 [=====] - 2s 36ms/step - loss: 0.5138 - val_loss: 0.5740
Epoch 13/100
50/50 [=====] - 2s 36ms/step - loss: 0.5050 - val_loss: 0.5731
Epoch 14/100
50/50 [=====] - 2s 40ms/step - loss: 0.4978 - val_loss: 0.5322
Epoch 15/100
50/50 [=====] - 2s 36ms/step - loss: 0.4923 - val_loss: 0.5401
Epoch 16/100
50/50 [=====] - 2s 36ms/step - loss: 0.4849 - val_loss: 0.5221
Epoch 17/100
50/50 [=====] - 2s 36ms/step - loss: 0.4829 - val_loss: 0.5305
Epoch 18/100
50/50 [=====] - 2s 38ms/step - loss: 0.4724 - val_loss: 0.5208
Epoch 19/100
50/50 [=====] - 2s 36ms/step - loss: 0.4640 - val_loss: 0.5301
Epoch 20/100
50/50 [=====] - 2s 40ms/step - loss: 0.4512 - val_loss: 0.4794
Epoch 21/100
50/50 [=====] - 2s 35ms/step - loss: 0.4402 - val_loss: 0.4706
Epoch 22/100
50/50 [=====] - 2s 37ms/step - loss: 0.4289 - val_loss: 0.4389
Epoch 23/100
50/50 [=====] - 2s 36ms/step - loss: 0.4253 - val_loss: 0.4438
Epoch 24/100
50/50 [=====] - 2s 37ms/step - loss: 0.4207 - val_loss: 0.4368
Epoch 25/100
50/50 [=====] - 2s 36ms/step - loss: 0.4158 - val_loss: 0.4520
Epoch 26/100
50/50 [=====] - 2s 36ms/step - loss: 0.4077 - val_loss: 0.4350
Epoch 27/100
50/50 [=====] - 2s 36ms/step - loss: 0.4013 - val_loss: 0.4069
Epoch 28/100
50/50 [=====] - 2s 38ms/step - loss: 0.3978 - val_loss: 0.4268
Epoch 29/100
50/50 [=====] - 2s 36ms/step - loss: 0.3911 - val_loss: 0.4057
Epoch 30/100
50/50 [=====] - 2s 36ms/step - loss: 0.3941 - val_loss: 0.4291
Epoch 31/100
50/50 [=====] - 2s 36ms/step - loss: 0.3834 - val_loss: 0.4409
Epoch 32/100
50/50 [=====] - 2s 37ms/step - loss: 0.3743 - val_loss: 0.4060
Epoch 33/100
50/50 [=====] - 2s 37ms/step - loss: 0.3752 - val_loss: 0.3861
Epoch 34/100
50/50 [=====] - 2s 38ms/step - loss: 0.3712 - val_loss: 0.3912

Epoch 35/100
50/50 [=====] - 2s 36ms/step - loss: 0.3715 - val_loss: 0.4147
Epoch 36/100
50/50 [=====] - 2s 37ms/step - loss: 0.3634 - val_loss: 0.4286
Epoch 37/100
50/50 [=====] - 2s 37ms/step - loss: 0.3672 - val_loss: 0.4113
Epoch 38/100
50/50 [=====] - 2s 37ms/step - loss: 0.3597 - val_loss: 0.4365
Epoch 39/100
50/50 [=====] - 2s 36ms/step - loss: 0.3645 - val_loss: 0.4313
Epoch 40/100
50/50 [=====] - 2s 39ms/step - loss: 0.3553 - val_loss: 0.4232
Epoch 41/100
50/50 [=====] - 2s 36ms/step - loss: 0.3539 - val_loss: 0.4081
Epoch 42/100
50/50 [=====] - 2s 35ms/step - loss: 0.3513 - val_loss: 0.4710
Epoch 43/100
50/50 [=====] - 2s 37ms/step - loss: 0.3546 - val_loss: 0.3646
Epoch 44/100
50/50 [=====] - 2s 38ms/step - loss: 0.3554 - val_loss: 0.4267
Epoch 45/100
50/50 [=====] - 2s 38ms/step - loss: 0.3505 - val_loss: 0.3883
Epoch 46/100
50/50 [=====] - 2s 36ms/step - loss: 0.3449 - val_loss: 0.3851
Epoch 47/100
50/50 [=====] - 2s 36ms/step - loss: 0.3440 - val_loss: 0.4496
Epoch 48/100
50/50 [=====] - 2s 36ms/step - loss: 0.3468 - val_loss: 0.3823
Epoch 49/100
50/50 [=====] - 2s 36ms/step - loss: 0.3404 - val_loss: 0.4428
Epoch 50/100
50/50 [=====] - 2s 39ms/step - loss: 0.3397 - val_loss: 0.3858
Epoch 51/100
50/50 [=====] - 2s 36ms/step - loss: 0.3386 - val_loss: 0.4016
Epoch 52/100
50/50 [=====] - 2s 36ms/step - loss: 0.3388 - val_loss: 0.4476
Epoch 53/100
50/50 [=====] - 2s 37ms/step - loss: 0.3370 - val_loss: 0.3782
Epoch 54/100
50/50 [=====] - 2s 39ms/step - loss: 0.3391 - val_loss: 0.4251
Epoch 55/100
50/50 [=====] - 2s 36ms/step - loss: 0.3353 - val_loss: 0.4384
Epoch 56/100
50/50 [=====] - 2s 36ms/step - loss: 0.3334 - val_loss: 0.4250
Epoch 57/100
50/50 [=====] - 2s 36ms/step - loss: 0.3322 - val_loss: 0.4393
Epoch 58/100
50/50 [=====] - 2s 36ms/step - loss: 0.3755 - val_loss: 0.5386

Epoch 59/100
50/50 [=====] - 2s 37ms/step - loss: 0.4588 - val_loss: 0.4938
Epoch 60/100
50/50 [=====] - 2s 36ms/step - loss: 0.4037 - val_loss: 0.4657
Epoch 61/100
50/50 [=====] - 2s 36ms/step - loss: 0.3934 - val_loss: 0.4756
Epoch 62/100
50/50 [=====] - 2s 37ms/step - loss: 0.3768 - val_loss: 0.4738
Epoch 63/100
50/50 [=====] - 2s 36ms/step - loss: 0.3731 - val_loss: 0.4695
Epoch 64/100
50/50 [=====] - 2s 37ms/step - loss: 0.3671 - val_loss: 0.4480
Epoch 65/100
50/50 [=====] - 2s 36ms/step - loss: 0.3584 - val_loss: 0.4654
Epoch 66/100
50/50 [=====] - 2s 36ms/step - loss: 0.3535 - val_loss: 0.4317
Epoch 67/100
50/50 [=====] - 2s 37ms/step - loss: 0.3470 - val_loss: 0.4130
Epoch 68/100
50/50 [=====] - 2s 38ms/step - loss: 0.3416 - val_loss: 0.3938
Epoch 69/100
50/50 [=====] - 2s 39ms/step - loss: 0.3319 - val_loss: 0.4043
Epoch 70/100
50/50 [=====] - 2s 37ms/step - loss: 0.3327 - val_loss: 0.4180
Epoch 71/100
50/50 [=====] - 2s 40ms/step - loss: 0.3387 - val_loss: 0.4661
Epoch 72/100
50/50 [=====] - 2s 38ms/step - loss: 0.3411 - val_loss: 0.3994
Epoch 73/100
50/50 [=====] - 2s 37ms/step - loss: 0.3265 - val_loss: 0.4403
Epoch 74/100
50/50 [=====] - 2s 36ms/step - loss: 0.3365 - val_loss: 0.4240
Epoch 75/100
50/50 [=====] - 2s 36ms/step - loss: 0.3297 - val_loss: 0.3820
Epoch 76/100
50/50 [=====] - 2s 39ms/step - loss: 0.3304 - val_loss: 0.3657
Epoch 77/100
50/50 [=====] - 2s 36ms/step - loss: 0.3233 - val_loss: 0.4157
Epoch 78/100
50/50 [=====] - 2s 37ms/step - loss: 0.3699 - val_loss: 0.4158
Epoch 79/100
50/50 [=====] - 2s 38ms/step - loss: 0.3354 - val_loss: 0.4667
Epoch 80/100
50/50 [=====] - 2s 39ms/step - loss: 0.3218 - val_loss: 0.3945
Epoch 81/100
50/50 [=====] - 2s 38ms/step - loss: 0.3193 - val_loss: 0.4071
Epoch 82/100
50/50 [=====] - 2s 38ms/step - loss: 0.3750 - val_loss: 0.4248

Epoch 83/100
50/50 [=====] - 2s 37ms/step - loss: 0.3387 - val_loss: 0.4453
Epoch 84/100
50/50 [=====] - 2s 36ms/step - loss: 0.3251 - val_loss: 0.4055
Epoch 85/100
50/50 [=====] - 2s 36ms/step - loss: 0.3186 - val_loss: 0.4035
Epoch 86/100
50/50 [=====] - 2s 36ms/step - loss: 0.3188 - val_loss: 0.3862
Epoch 87/100
50/50 [=====] - 2s 37ms/step - loss: 0.3202 - val_loss: 0.3965
Epoch 88/100
50/50 [=====] - 2s 36ms/step - loss: 0.3275 - val_loss: 0.3812
Epoch 89/100
50/50 [=====] - 2s 36ms/step - loss: 0.3158 - val_loss: 0.4015
Epoch 90/100
50/50 [=====] - 2s 36ms/step - loss: 0.3217 - val_loss: 0.4233
Epoch 91/100
50/50 [=====] - 2s 36ms/step - loss: 0.4956 - val_loss: 0.4920
Epoch 92/100
50/50 [=====] - 2s 37ms/step - loss: 0.4380 - val_loss: 0.4570
Epoch 93/100
50/50 [=====] - 2s 37ms/step - loss: 0.3989 - val_loss: 0.4452
Epoch 94/100
50/50 [=====] - 2s 36ms/step - loss: 0.3750 - val_loss: 0.4030
Epoch 95/100
50/50 [=====] - 2s 37ms/step - loss: 0.3413 - val_loss: 0.4298
Epoch 96/100
50/50 [=====] - 2s 36ms/step - loss: 0.3317 - val_loss: 0.4276
Epoch 97/100
50/50 [=====] - 2s 36ms/step - loss: 0.6608 - val_loss: 0.7363
Epoch 98/100
50/50 [=====] - 2s 37ms/step - loss: 0.5756 - val_loss: 0.6766
Epoch 99/100
50/50 [=====] - 2s 39ms/step - loss: 0.5502 - val_loss: 0.6643
Epoch 100/100
50/50 [=====] - 2s 36ms/step - loss: 0.5353 - val_loss: 0.6618



WI_3 - True Future: 3998

WI_3 - Model Prediction: 4180

WI_3 - Model Percentage Error: 4.55%

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