

## Training Model for CA\_1...

Epoch 1/100

50/50 [=====] - 2s 43ms/step - loss: 0.7298 - val\_loss: 0.7735

Epoch 2/100

50/50 [=====] - 2s 36ms/step - loss: 0.7169 - val\_loss: 0.7554

Epoch 3/100

50/50 [=====] - 2s 36ms/step - loss: 0.6976 - val\_loss: 0.7284

Epoch 4/100

50/50 [=====] - 2s 36ms/step - loss: 0.6727 - val\_loss: 0.6869

Epoch 5/100

50/50 [=====] - 2s 37ms/step - loss: 0.6313 - val\_loss: 0.6308

Epoch 6/100

50/50 [=====] - 2s 37ms/step - loss: 0.5885 - val\_loss: 0.5666

Epoch 7/100

50/50 [=====] - 2s 37ms/step - loss: 0.5416 - val\_loss: 0.5129

Epoch 8/100

50/50 [=====] - 2s 36ms/step - loss: 0.4914 - val\_loss: 0.4618

Epoch 9/100

50/50 [=====] - 2s 36ms/step - loss: 0.4476 - val\_loss: 0.4237

Epoch 10/100

50/50 [=====] - 2s 37ms/step - loss: 0.4313 - val\_loss: 0.4017

Epoch 11/100

50/50 [=====] - 2s 36ms/step - loss: 0.4084 - val\_loss: 0.3828

Epoch 12/100

50/50 [=====] - 2s 36ms/step - loss: 0.4035 - val\_loss: 0.3800

Epoch 13/100

50/50 [=====] - 2s 38ms/step - loss: 0.3945 - val\_loss: 0.3661

Epoch 14/100

50/50 [=====] - 2s 37ms/step - loss: 0.3909 - val\_loss: 0.3636

Epoch 15/100

50/50 [=====] - 2s 39ms/step - loss: 0.3858 - val\_loss: 0.3609

Epoch 16/100

50/50 [=====] - 2s 37ms/step - loss: 0.3897 - val\_loss: 0.3592

Epoch 17/100

50/50 [=====] - 2s 36ms/step - loss: 0.3824 - val\_loss: 0.3634

Epoch 18/100

50/50 [=====] - 2s 36ms/step - loss: 0.3777 - val\_loss: 0.3476

Epoch 19/100

50/50 [=====] - 2s 38ms/step - loss: 0.3786 - val\_loss: 0.3458

Epoch 20/100

50/50 [=====] - 2s 36ms/step - loss: 0.3744 - val\_loss: 0.3426

Epoch 21/100

50/50 [=====] - 2s 36ms/step - loss: 0.3714 - val\_loss: 0.3397

Epoch 22/100

50/50 [=====] - 2s 37ms/step - loss: 0.3673 - val\_loss: 0.3376

Epoch 23/100

50/50 [=====] - 2s 36ms/step - loss: 0.3716 - val\_loss: 0.3329

Epoch 24/100

50/50 [=====] - 2s 36ms/step - loss: 0.3633 - val\_loss: 0.3441

Epoch 25/100

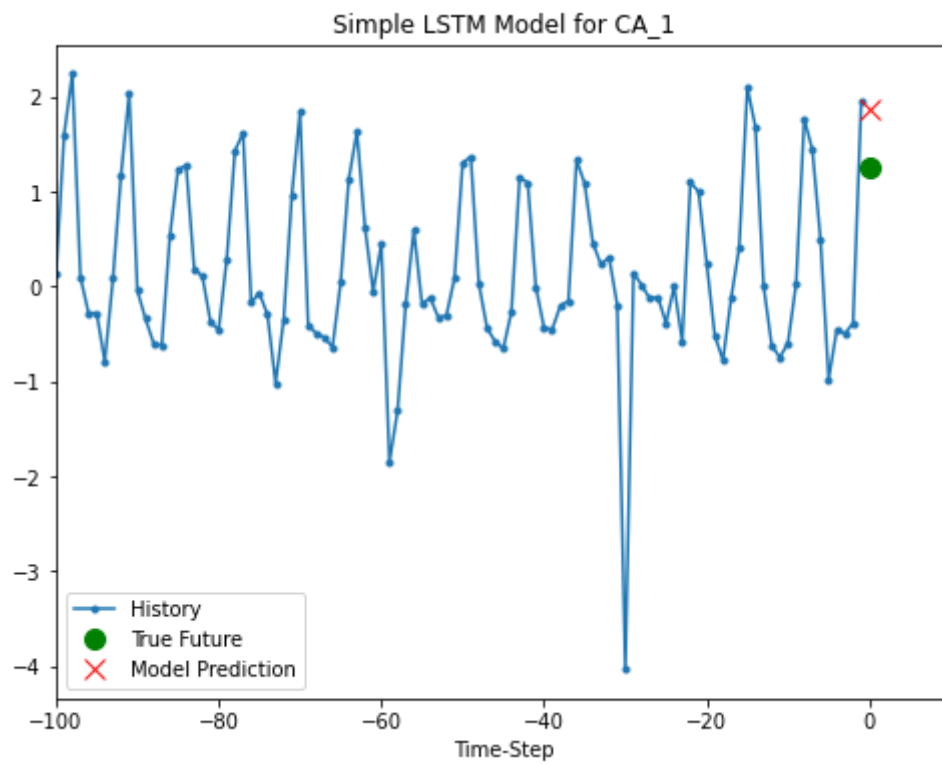
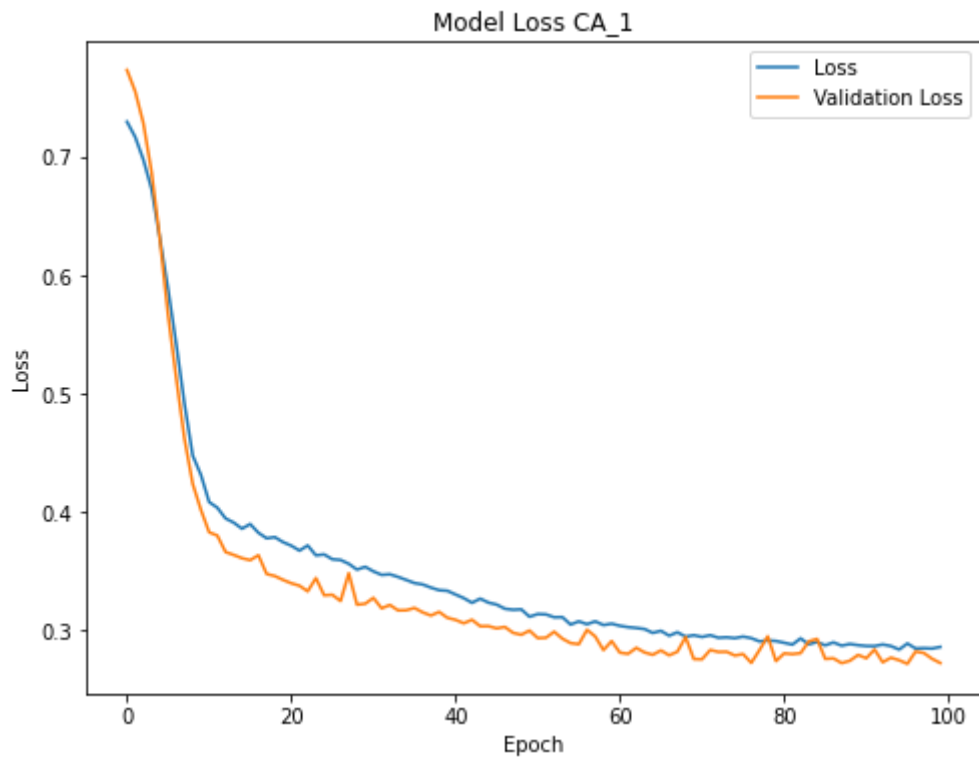
50/50 [=====] - 2s 36ms/step - loss: 0.3641 - val\_loss: 0.3295

Epoch 26/100

50/50 [=====] - 2s 35ms/step - loss: 0.3600 - val\_loss: 0.3300  
Epoch 27/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3594 - val\_loss: 0.3247  
Epoch 28/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3561 - val\_loss: 0.3482  
Epoch 29/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3512 - val\_loss: 0.3216  
Epoch 30/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3536 - val\_loss: 0.3224  
Epoch 31/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3497 - val\_loss: 0.3273  
Epoch 32/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3468 - val\_loss: 0.3185  
Epoch 33/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3473 - val\_loss: 0.3214  
Epoch 34/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3450 - val\_loss: 0.3168  
Epoch 35/100  
50/50 [=====] - 2s 35ms/step - loss: 0.3425 - val\_loss: 0.3169  
Epoch 36/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3398 - val\_loss: 0.3188  
Epoch 37/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3387 - val\_loss: 0.3151  
Epoch 38/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3360 - val\_loss: 0.3124  
Epoch 39/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3338 - val\_loss: 0.3155  
Epoch 40/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3333 - val\_loss: 0.3105  
Epoch 41/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3302 - val\_loss: 0.3088  
Epoch 42/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3271 - val\_loss: 0.3059  
Epoch 43/100  
50/50 [=====] - 2s 35ms/step - loss: 0.3232 - val\_loss: 0.3088  
Epoch 44/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3267 - val\_loss: 0.3034  
Epoch 45/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3233 - val\_loss: 0.3035  
Epoch 46/100  
50/50 [=====] - 2s 40ms/step - loss: 0.3217 - val\_loss: 0.3016  
Epoch 47/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3181 - val\_loss: 0.3028  
Epoch 48/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3173 - val\_loss: 0.2978  
Epoch 49/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3176 - val\_loss: 0.2962  
Epoch 50/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3114 - val\_loss: 0.2997  
Epoch 51/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3137 - val\_loss: 0.2933  
Epoch 52/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3134 - val\_loss: 0.2936  
Epoch 53/100

50/50 [=====] - 2s 36ms/step - loss: 0.3109 - val\_loss: 0.2987  
Epoch 54/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3111 - val\_loss: 0.2929  
Epoch 55/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3048 - val\_loss: 0.2891  
Epoch 56/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3075 - val\_loss: 0.2882  
Epoch 57/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3051 - val\_loss: 0.3003  
Epoch 58/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3075 - val\_loss: 0.2947  
Epoch 59/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3044 - val\_loss: 0.2832  
Epoch 60/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3055 - val\_loss: 0.2908  
Epoch 61/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3037 - val\_loss: 0.2810  
Epoch 62/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3026 - val\_loss: 0.2800  
Epoch 63/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3019 - val\_loss: 0.2851  
Epoch 64/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3010 - val\_loss: 0.2812  
Epoch 65/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2978 - val\_loss: 0.2792  
Epoch 66/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2995 - val\_loss: 0.2829  
Epoch 67/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2954 - val\_loss: 0.2788  
Epoch 68/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2982 - val\_loss: 0.2818  
Epoch 69/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2946 - val\_loss: 0.2942  
Epoch 70/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2958 - val\_loss: 0.2757  
Epoch 71/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2943 - val\_loss: 0.2754  
Epoch 72/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2958 - val\_loss: 0.2833  
Epoch 73/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2936 - val\_loss: 0.2817  
Epoch 74/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2940 - val\_loss: 0.2818  
Epoch 75/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2933 - val\_loss: 0.2786  
Epoch 76/100  
50/50 [=====] - 2s 46ms/step - loss: 0.2946 - val\_loss: 0.2798  
Epoch 77/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2933 - val\_loss: 0.2724  
Epoch 78/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2906 - val\_loss: 0.2833  
Epoch 79/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2913 - val\_loss: 0.2948  
Epoch 80/100

50/50 [=====] - 2s 39ms/step - loss: 0.2909 - val\_loss: 0.2739  
Epoch 81/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2894 - val\_loss: 0.2804  
Epoch 82/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2878 - val\_loss: 0.2798  
Epoch 83/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2931 - val\_loss: 0.2806  
Epoch 84/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2881 - val\_loss: 0.2906  
Epoch 85/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2900 - val\_loss: 0.2926  
Epoch 86/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2872 - val\_loss: 0.2758  
Epoch 87/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2897 - val\_loss: 0.2762  
Epoch 88/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2869 - val\_loss: 0.2722  
Epoch 89/100  
50/50 [=====] - 2s 40ms/step - loss: 0.2884 - val\_loss: 0.2742  
Epoch 90/100  
50/50 [=====] - 2s 40ms/step - loss: 0.2874 - val\_loss: 0.2791  
Epoch 91/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2867 - val\_loss: 0.2763  
Epoch 92/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2866 - val\_loss: 0.2838  
Epoch 93/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2879 - val\_loss: 0.2729  
Epoch 94/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2866 - val\_loss: 0.2768  
Epoch 95/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2836 - val\_loss: 0.2746  
Epoch 96/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2888 - val\_loss: 0.2716  
Epoch 97/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2846 - val\_loss: 0.2820  
Epoch 98/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2848 - val\_loss: 0.2808  
Epoch 99/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2845 - val\_loss: 0.2759  
Epoch 100/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2858 - val\_loss: 0.2723



CA\_1 - True Future: 5247

CA\_1 - Model Prediction: 5851

CA\_1 - Model Percentage Error: 11.51%

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Training Model for CA\_2...

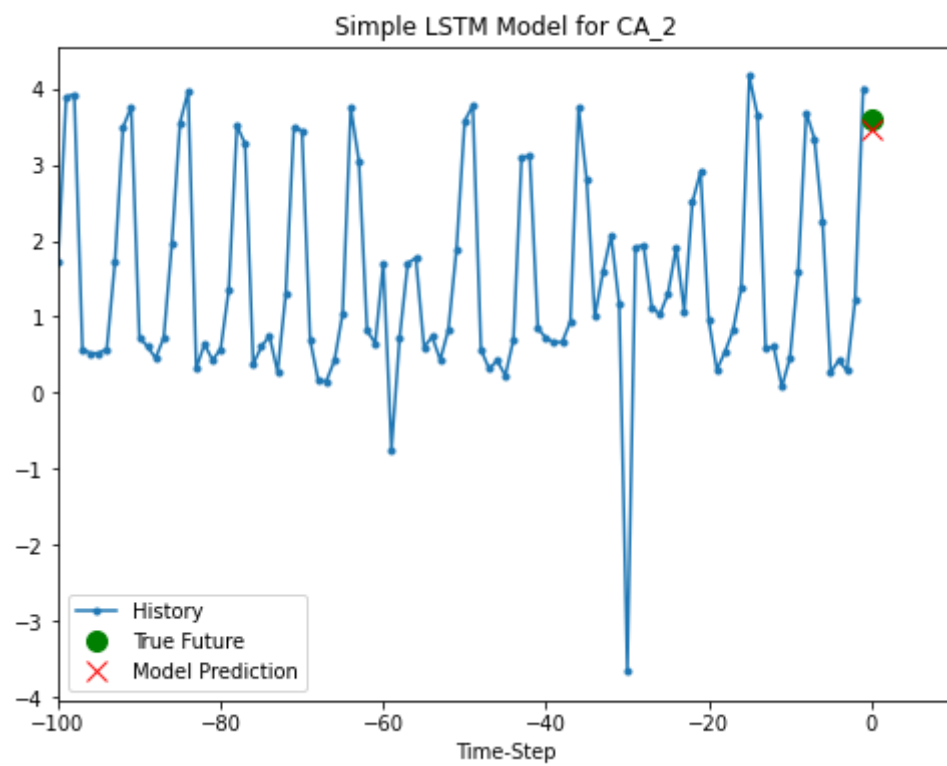
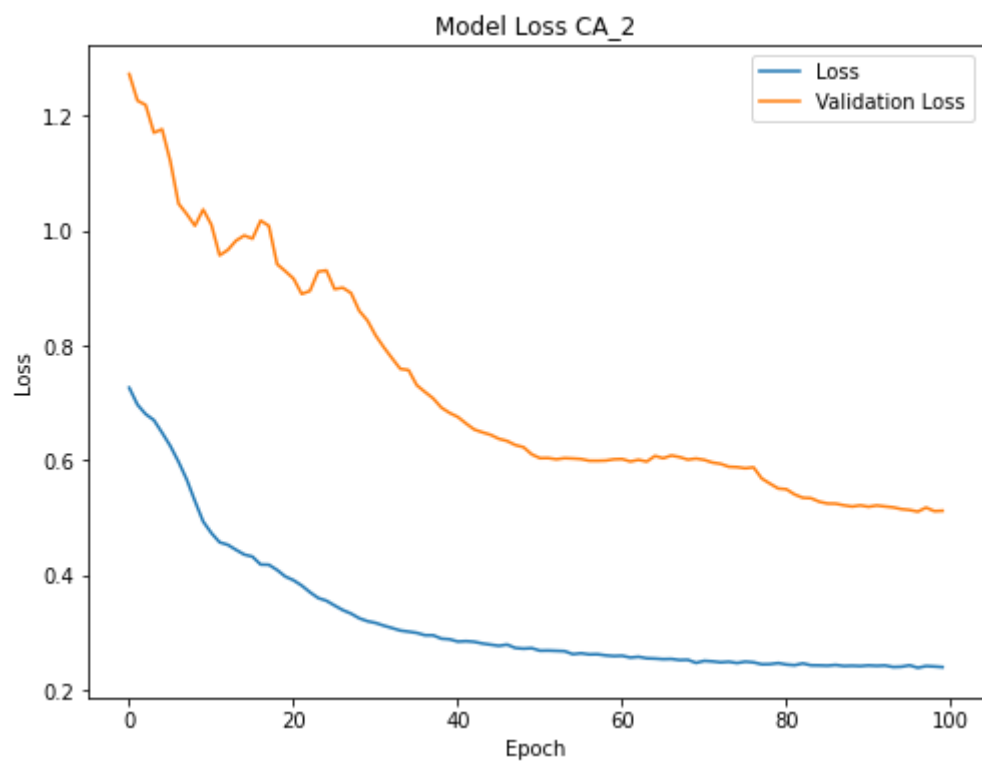
Epoch 1/100  
50/50 [=====] - 2s 41ms/step - loss: 0.7266 - val\_loss: 1.2724  
Epoch 2/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6972 - val\_loss: 1.2262  
Epoch 3/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6807 - val\_loss: 1.2185  
Epoch 4/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6702 - val\_loss: 1.1704  
Epoch 5/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6484 - val\_loss: 1.1763  
Epoch 6/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6253 - val\_loss: 1.1207  
Epoch 7/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5978 - val\_loss: 1.0470  
Epoch 8/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5669 - val\_loss: 1.0288  
Epoch 9/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5293 - val\_loss: 1.0084  
Epoch 10/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4938 - val\_loss: 1.0367  
Epoch 11/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4738 - val\_loss: 1.0103  
Epoch 12/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4578 - val\_loss: 0.9570  
Epoch 13/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4533 - val\_loss: 0.9663  
Epoch 14/100  
50/50 [=====] - 2s 35ms/step - loss: 0.4446 - val\_loss: 0.9825  
Epoch 15/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4364 - val\_loss: 0.9915  
Epoch 16/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4328 - val\_loss: 0.9860  
Epoch 17/100  
50/50 [=====] - 2s 35ms/step - loss: 0.4191 - val\_loss: 1.0173  
Epoch 18/100  
50/50 [=====] - 2s 41ms/step - loss: 0.4186 - val\_loss: 1.0083  
Epoch 19/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4095 - val\_loss: 0.9417  
Epoch 20/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3982 - val\_loss: 0.9294  
Epoch 21/100  
50/50 [=====] - 2s 35ms/step - loss: 0.3917 - val\_loss: 0.9166  
Epoch 22/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3824 - val\_loss: 0.8898  
Epoch 23/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3709 - val\_loss: 0.8951  
Epoch 24/100  
50/50 [=====] - 2s 35ms/step - loss: 0.3608 - val\_loss: 0.9287  
Epoch 25/100  
50/50 [=====] - 2s 35ms/step - loss: 0.3561 - val\_loss: 0.9308  
Epoch 26/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3478 - val\_loss: 0.8983  
Epoch 27/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3397 - val\_loss: 0.9006

Epoch 28/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3337 - val\_loss: 0.8914  
Epoch 29/100  
50/50 [=====] - 2s 35ms/step - loss: 0.3255 - val\_loss: 0.8604  
Epoch 30/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3204 - val\_loss: 0.8436  
Epoch 31/100  
50/50 [=====] - 2s 35ms/step - loss: 0.3174 - val\_loss: 0.8175  
Epoch 32/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3127 - val\_loss: 0.7969  
Epoch 33/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3085 - val\_loss: 0.7779  
Epoch 34/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3042 - val\_loss: 0.7594  
Epoch 35/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3023 - val\_loss: 0.7574  
Epoch 36/100  
50/50 [=====] - 2s 35ms/step - loss: 0.3001 - val\_loss: 0.7311  
Epoch 37/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2960 - val\_loss: 0.7193  
Epoch 38/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2959 - val\_loss: 0.7081  
Epoch 39/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2901 - val\_loss: 0.6920  
Epoch 40/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2890 - val\_loss: 0.6829  
Epoch 41/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2850 - val\_loss: 0.6758  
Epoch 42/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2857 - val\_loss: 0.6644  
Epoch 43/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2846 - val\_loss: 0.6539  
Epoch 44/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2816 - val\_loss: 0.6490  
Epoch 45/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2796 - val\_loss: 0.6447  
Epoch 46/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2776 - val\_loss: 0.6378  
Epoch 47/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2797 - val\_loss: 0.6340  
Epoch 48/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2739 - val\_loss: 0.6269  
Epoch 49/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2727 - val\_loss: 0.6232  
Epoch 50/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2736 - val\_loss: 0.6108  
Epoch 51/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2692 - val\_loss: 0.6041  
Epoch 52/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2694 - val\_loss: 0.6043  
Epoch 53/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2688 - val\_loss: 0.6022  
Epoch 54/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2683 - val\_loss: 0.6041

Epoch 55/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2631 - val\_loss: 0.6035  
Epoch 56/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2647 - val\_loss: 0.6026  
Epoch 57/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2627 - val\_loss: 0.5996  
Epoch 58/100  
50/50 [=====] - 2s 47ms/step - loss: 0.2630 - val\_loss: 0.5995  
Epoch 59/100  
50/50 [=====] - 3s 55ms/step - loss: 0.2610 - val\_loss: 0.5999  
Epoch 60/100  
50/50 [=====] - 3s 52ms/step - loss: 0.2598 - val\_loss: 0.6021  
Epoch 61/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2604 - val\_loss: 0.6026  
Epoch 62/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2572 - val\_loss: 0.5983  
Epoch 63/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2585 - val\_loss: 0.6012  
Epoch 64/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2559 - val\_loss: 0.5981  
Epoch 65/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2554 - val\_loss: 0.6079  
Epoch 66/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2544 - val\_loss: 0.6040  
Epoch 67/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2548 - val\_loss: 0.6087  
Epoch 68/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2529 - val\_loss: 0.6060  
Epoch 69/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2533 - val\_loss: 0.6016  
Epoch 70/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2480 - val\_loss: 0.6034  
Epoch 71/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2514 - val\_loss: 0.6011  
Epoch 72/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2505 - val\_loss: 0.5964  
Epoch 73/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2489 - val\_loss: 0.5942  
Epoch 74/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2499 - val\_loss: 0.5891  
Epoch 75/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2477 - val\_loss: 0.5885  
Epoch 76/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2501 - val\_loss: 0.5865  
Epoch 77/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2488 - val\_loss: 0.5882  
Epoch 78/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2455 - val\_loss: 0.5687  
Epoch 79/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2457 - val\_loss: 0.5598  
Epoch 80/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2476 - val\_loss: 0.5514  
Epoch 81/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2451 - val\_loss: 0.5500



Epoch 82/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2439 - val\_loss: 0.5409  
Epoch 83/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2470 - val\_loss: 0.5352  
Epoch 84/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2437 - val\_loss: 0.5344  
Epoch 85/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2436 - val\_loss: 0.5283  
Epoch 86/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2431 - val\_loss: 0.5252  
Epoch 87/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2443 - val\_loss: 0.5249  
Epoch 88/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2425 - val\_loss: 0.5221  
Epoch 89/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2430 - val\_loss: 0.5200  
Epoch 90/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2424 - val\_loss: 0.5220  
Epoch 91/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2435 - val\_loss: 0.5196  
Epoch 92/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2428 - val\_loss: 0.5218  
Epoch 93/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2434 - val\_loss: 0.5201  
Epoch 94/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2408 - val\_loss: 0.5185  
Epoch 95/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2412 - val\_loss: 0.5154  
Epoch 96/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2437 - val\_loss: 0.5140  
Epoch 97/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2394 - val\_loss: 0.5111  
Epoch 98/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2424 - val\_loss: 0.5181  
Epoch 99/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2417 - val\_loss: 0.5120  
Epoch 100/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2406 - val\_loss: 0.5126



CA\_2 - True Future: 5647

CA\_2 - Model Prediction: 5529

CA\_2 - Model Percentage Error: 2.09%

=====

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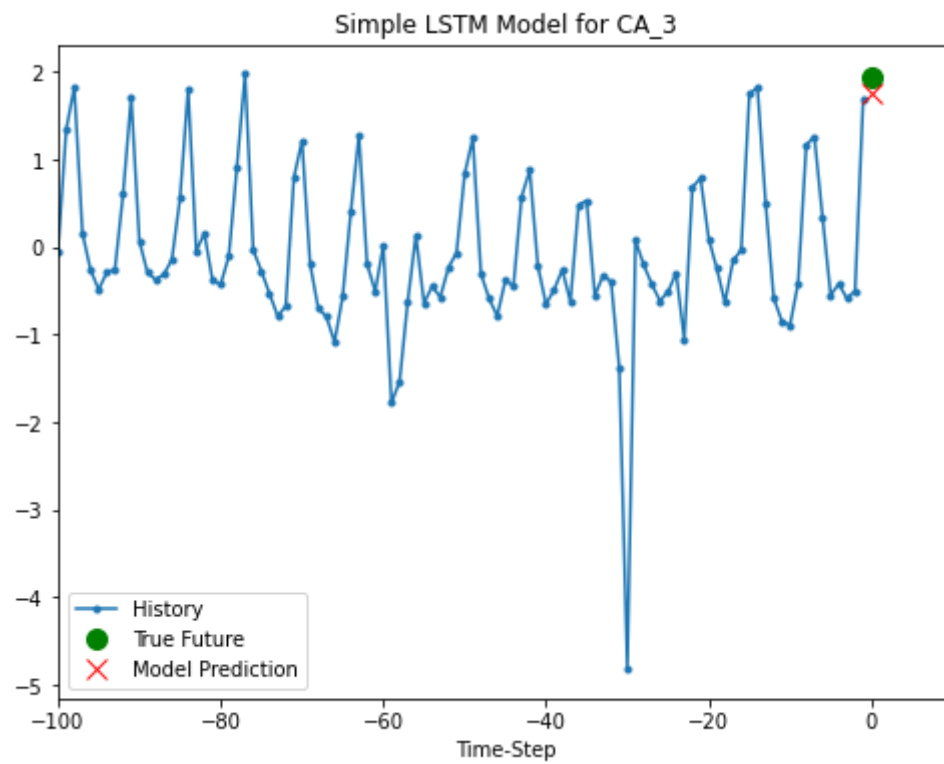
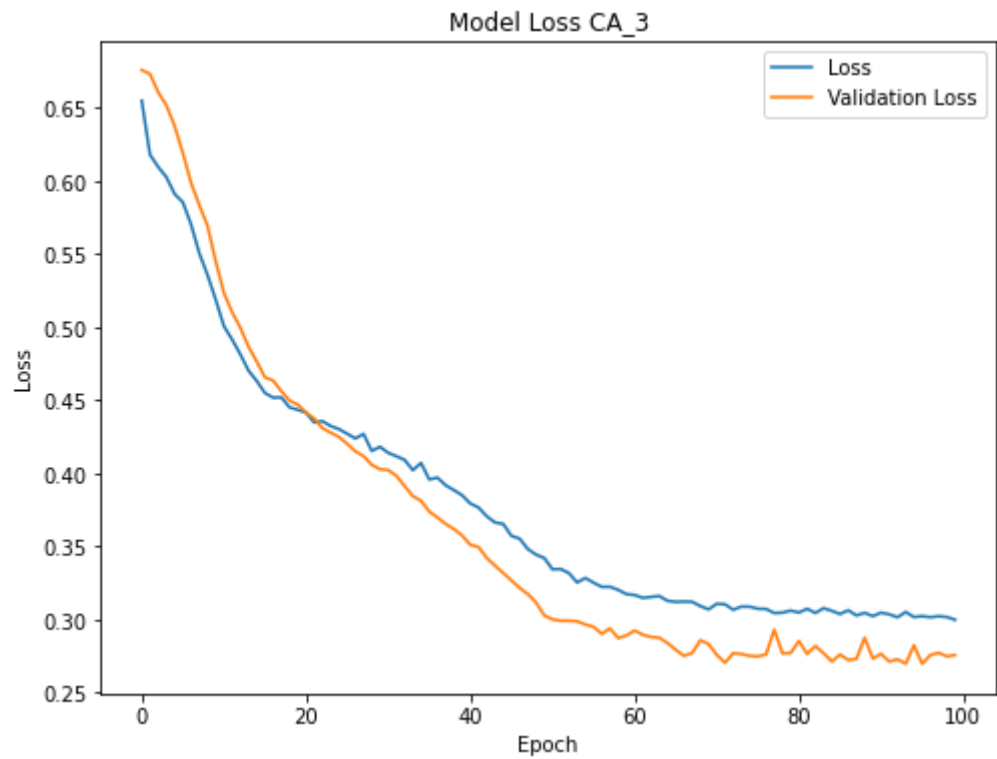
Training Model for CA\_3...

Epoch 1/100  
50/50 [=====] - 2s 43ms/step - loss: 0.6551 - val\_loss: 0.6760  
Epoch 2/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6181 - val\_loss: 0.6734  
Epoch 3/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6098 - val\_loss: 0.6609  
Epoch 4/100  
50/50 [=====] - 2s 41ms/step - loss: 0.6028 - val\_loss: 0.6519  
Epoch 5/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5913 - val\_loss: 0.6378  
Epoch 6/100  
50/50 [=====] - 2s 39ms/step - loss: 0.5856 - val\_loss: 0.6194  
Epoch 7/100  
50/50 [=====] - 2s 38ms/step - loss: 0.5705 - val\_loss: 0.5989  
Epoch 8/100  
50/50 [=====] - 2s 39ms/step - loss: 0.5508 - val\_loss: 0.5837  
Epoch 9/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5360 - val\_loss: 0.5697  
Epoch 10/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5190 - val\_loss: 0.5453  
Epoch 11/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5009 - val\_loss: 0.5236  
Epoch 12/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4917 - val\_loss: 0.5104  
Epoch 13/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4816 - val\_loss: 0.4998  
Epoch 14/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4704 - val\_loss: 0.4867  
Epoch 15/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4634 - val\_loss: 0.4767  
Epoch 16/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4551 - val\_loss: 0.4658  
Epoch 17/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4519 - val\_loss: 0.4636  
Epoch 18/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4521 - val\_loss: 0.4563  
Epoch 19/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4452 - val\_loss: 0.4499  
Epoch 20/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4436 - val\_loss: 0.4471  
Epoch 21/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4417 - val\_loss: 0.4417  
Epoch 22/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4349 - val\_loss: 0.4376  
Epoch 23/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4358 - val\_loss: 0.4310  
Epoch 24/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4325 - val\_loss: 0.4279  
Epoch 25/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4304 - val\_loss: 0.4250  
Epoch 26/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4273 - val\_loss: 0.4204  
Epoch 27/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4240 - val\_loss: 0.4152

Epoch 28/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4271 - val\_loss: 0.4120  
Epoch 29/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4154 - val\_loss: 0.4060  
Epoch 30/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4183 - val\_loss: 0.4029  
Epoch 31/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4142 - val\_loss: 0.4024  
Epoch 32/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4118 - val\_loss: 0.3985  
Epoch 33/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4094 - val\_loss: 0.3915  
Epoch 34/100  
50/50 [=====] - 2s 40ms/step - loss: 0.4023 - val\_loss: 0.3846  
Epoch 35/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4072 - val\_loss: 0.3813  
Epoch 36/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3960 - val\_loss: 0.3740  
Epoch 37/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3972 - val\_loss: 0.3699  
Epoch 38/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3920 - val\_loss: 0.3655  
Epoch 39/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3887 - val\_loss: 0.3620  
Epoch 40/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3852 - val\_loss: 0.3577  
Epoch 41/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3795 - val\_loss: 0.3513  
Epoch 42/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3768 - val\_loss: 0.3497  
Epoch 43/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3708 - val\_loss: 0.3423  
Epoch 44/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3665 - val\_loss: 0.3370  
Epoch 45/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3656 - val\_loss: 0.3320  
Epoch 46/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3574 - val\_loss: 0.3269  
Epoch 47/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3555 - val\_loss: 0.3218  
Epoch 48/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3484 - val\_loss: 0.3175  
Epoch 49/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3445 - val\_loss: 0.3117  
Epoch 50/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3422 - val\_loss: 0.3030  
Epoch 51/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3345 - val\_loss: 0.3003  
Epoch 52/100  
50/50 [=====] - 2s 41ms/step - loss: 0.3347 - val\_loss: 0.2993  
Epoch 53/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3319 - val\_loss: 0.2993  
Epoch 54/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3255 - val\_loss: 0.2989

Epoch 55/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3285 - val\_loss: 0.2968  
Epoch 56/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3254 - val\_loss: 0.2952  
Epoch 57/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3225 - val\_loss: 0.2904  
Epoch 58/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3226 - val\_loss: 0.2941  
Epoch 59/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3204 - val\_loss: 0.2874  
Epoch 60/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3175 - val\_loss: 0.2893  
Epoch 61/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3169 - val\_loss: 0.2926  
Epoch 62/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3149 - val\_loss: 0.2897  
Epoch 63/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3156 - val\_loss: 0.2882  
Epoch 64/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3162 - val\_loss: 0.2877  
Epoch 65/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3130 - val\_loss: 0.2841  
Epoch 66/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3122 - val\_loss: 0.2795  
Epoch 67/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3124 - val\_loss: 0.2753  
Epoch 68/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3123 - val\_loss: 0.2772  
Epoch 69/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3093 - val\_loss: 0.2860  
Epoch 70/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3071 - val\_loss: 0.2834  
Epoch 71/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3109 - val\_loss: 0.2760  
Epoch 72/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3106 - val\_loss: 0.2706  
Epoch 73/100  
50/50 [=====] - 2s 40ms/step - loss: 0.3068 - val\_loss: 0.2771  
Epoch 74/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3090 - val\_loss: 0.2765  
Epoch 75/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3089 - val\_loss: 0.2753  
Epoch 76/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3075 - val\_loss: 0.2749  
Epoch 77/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3074 - val\_loss: 0.2763  
Epoch 78/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3046 - val\_loss: 0.2932  
Epoch 79/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3049 - val\_loss: 0.2770  
Epoch 80/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3062 - val\_loss: 0.2773  
Epoch 81/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3049 - val\_loss: 0.2854

Epoch 82/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3075 - val\_loss: 0.2766  
Epoch 83/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3046 - val\_loss: 0.2820  
Epoch 84/100  
50/50 [=====] - 2s 41ms/step - loss: 0.3079 - val\_loss: 0.2771  
Epoch 85/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3061 - val\_loss: 0.2714  
Epoch 86/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3039 - val\_loss: 0.2762  
Epoch 87/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3064 - val\_loss: 0.2725  
Epoch 88/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3030 - val\_loss: 0.2732  
Epoch 89/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3047 - val\_loss: 0.2877  
Epoch 90/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3025 - val\_loss: 0.2735  
Epoch 91/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3048 - val\_loss: 0.2766  
Epoch 92/100  
50/50 [=====] - 2s 40ms/step - loss: 0.3037 - val\_loss: 0.2714  
Epoch 93/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3017 - val\_loss: 0.2730  
Epoch 94/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3053 - val\_loss: 0.2699  
Epoch 95/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3018 - val\_loss: 0.2825  
Epoch 96/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3024 - val\_loss: 0.2699  
Epoch 97/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3017 - val\_loss: 0.2758  
Epoch 98/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3024 - val\_loss: 0.2774  
Epoch 99/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3018 - val\_loss: 0.2750  
Epoch 100/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3000 - val\_loss: 0.2759



CA\_3 - True Future: 8164

CA\_3 - Model Prediction: 7943

CA\_3 - Model Percentage Error: 2.71%

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Training Model for CA\_4...

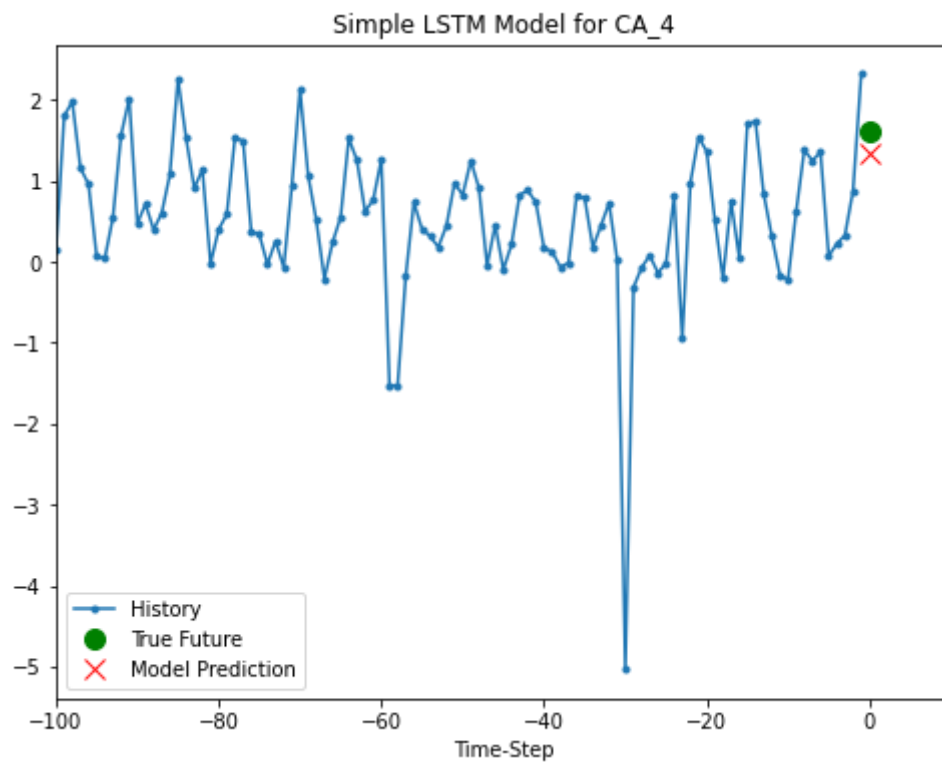
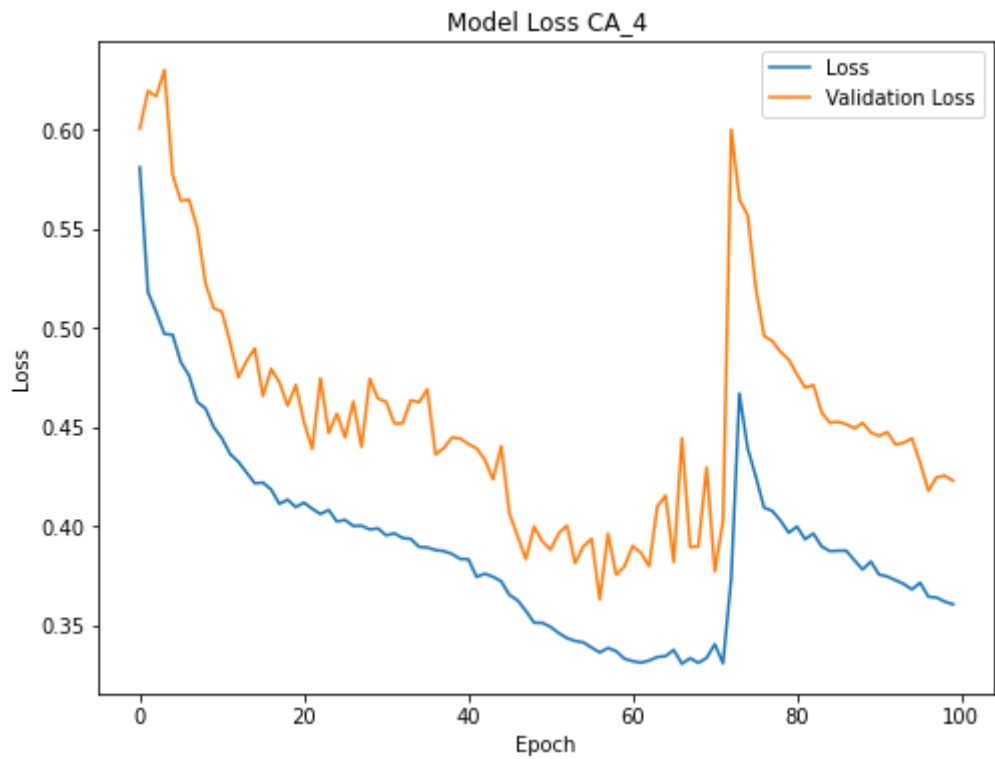
Epoch 1/100  
50/50 [=====] - 2s 45ms/step - loss: 0.5808 - val\_loss: 0.6003  
Epoch 2/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5179 - val\_loss: 0.6192  
Epoch 3/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5079 - val\_loss: 0.6165  
Epoch 4/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4969 - val\_loss: 0.6298  
Epoch 5/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4965 - val\_loss: 0.5771  
Epoch 6/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4827 - val\_loss: 0.5639  
Epoch 7/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4760 - val\_loss: 0.5646  
Epoch 8/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4627 - val\_loss: 0.5502  
Epoch 9/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4594 - val\_loss: 0.5224  
Epoch 10/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4500 - val\_loss: 0.5098  
Epoch 11/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4444 - val\_loss: 0.5082  
Epoch 12/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4365 - val\_loss: 0.4925  
Epoch 13/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4325 - val\_loss: 0.4750  
Epoch 14/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4272 - val\_loss: 0.4833  
Epoch 15/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4217 - val\_loss: 0.4896  
Epoch 16/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4221 - val\_loss: 0.4657  
Epoch 17/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4185 - val\_loss: 0.4793  
Epoch 18/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4113 - val\_loss: 0.4726  
Epoch 19/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4134 - val\_loss: 0.4608  
Epoch 20/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4097 - val\_loss: 0.4712  
Epoch 21/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4119 - val\_loss: 0.4524  
Epoch 22/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4088 - val\_loss: 0.4390  
Epoch 23/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4062 - val\_loss: 0.4746  
Epoch 24/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4083 - val\_loss: 0.4470  
Epoch 25/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4025 - val\_loss: 0.4568  
Epoch 26/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4032 - val\_loss: 0.4448  
Epoch 27/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4002 - val\_loss: 0.4629



Epoch 28/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4003 - val\_loss: 0.4399  
Epoch 29/100  
50/50 [=====] - 2s 43ms/step - loss: 0.3984 - val\_loss: 0.4743  
Epoch 30/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3990 - val\_loss: 0.4644  
Epoch 31/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3955 - val\_loss: 0.4627  
Epoch 32/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3965 - val\_loss: 0.4518  
Epoch 33/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3941 - val\_loss: 0.4519  
Epoch 34/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3937 - val\_loss: 0.4635  
Epoch 35/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3896 - val\_loss: 0.4625  
Epoch 36/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3893 - val\_loss: 0.4690  
Epoch 37/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3880 - val\_loss: 0.4363  
Epoch 38/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3876 - val\_loss: 0.4394  
Epoch 39/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3861 - val\_loss: 0.4448  
Epoch 40/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3836 - val\_loss: 0.4443  
Epoch 41/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3835 - val\_loss: 0.4415  
Epoch 42/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3746 - val\_loss: 0.4393  
Epoch 43/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3761 - val\_loss: 0.4336  
Epoch 44/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3746 - val\_loss: 0.4237  
Epoch 45/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3723 - val\_loss: 0.4404  
Epoch 46/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3654 - val\_loss: 0.4064  
Epoch 47/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3628 - val\_loss: 0.3950  
Epoch 48/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3575 - val\_loss: 0.3835  
Epoch 49/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3515 - val\_loss: 0.3999  
Epoch 50/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3514 - val\_loss: 0.3925  
Epoch 51/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3494 - val\_loss: 0.3883  
Epoch 52/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3463 - val\_loss: 0.3965  
Epoch 53/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3437 - val\_loss: 0.4004  
Epoch 54/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3423 - val\_loss: 0.3815

Epoch 55/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3416 - val\_loss: 0.3899  
Epoch 56/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3390 - val\_loss: 0.3937  
Epoch 57/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3365 - val\_loss: 0.3631  
Epoch 58/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3388 - val\_loss: 0.3963  
Epoch 59/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3371 - val\_loss: 0.3756  
Epoch 60/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3333 - val\_loss: 0.3799  
Epoch 61/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3321 - val\_loss: 0.3902  
Epoch 62/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3314 - val\_loss: 0.3867  
Epoch 63/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3324 - val\_loss: 0.3800  
Epoch 64/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3342 - val\_loss: 0.4100  
Epoch 65/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3346 - val\_loss: 0.4155  
Epoch 66/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3378 - val\_loss: 0.3820  
Epoch 67/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3308 - val\_loss: 0.4443  
Epoch 68/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3336 - val\_loss: 0.3896  
Epoch 69/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3313 - val\_loss: 0.3899  
Epoch 70/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3337 - val\_loss: 0.4296  
Epoch 71/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3407 - val\_loss: 0.3774  
Epoch 72/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3310 - val\_loss: 0.4029  
Epoch 73/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3737 - val\_loss: 0.5998  
Epoch 74/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4669 - val\_loss: 0.5645  
Epoch 75/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4393 - val\_loss: 0.5567  
Epoch 76/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4250 - val\_loss: 0.5199  
Epoch 77/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4094 - val\_loss: 0.4959  
Epoch 78/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4078 - val\_loss: 0.4933  
Epoch 79/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4029 - val\_loss: 0.4879  
Epoch 80/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3968 - val\_loss: 0.4840  
Epoch 81/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3999 - val\_loss: 0.4765

Epoch 82/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3935 - val\_loss: 0.4699  
Epoch 83/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3964 - val\_loss: 0.4712  
Epoch 84/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3900 - val\_loss: 0.4575  
Epoch 85/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3875 - val\_loss: 0.4522  
Epoch 86/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3877 - val\_loss: 0.4527  
Epoch 87/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3878 - val\_loss: 0.4515  
Epoch 88/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3829 - val\_loss: 0.4494  
Epoch 89/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3783 - val\_loss: 0.4521  
Epoch 90/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3823 - val\_loss: 0.4473  
Epoch 91/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3757 - val\_loss: 0.4455  
Epoch 92/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3748 - val\_loss: 0.4475  
Epoch 93/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3729 - val\_loss: 0.4412  
Epoch 94/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3710 - val\_loss: 0.4421  
Epoch 95/100  
50/50 [=====] - 2s 41ms/step - loss: 0.3682 - val\_loss: 0.4443  
Epoch 96/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3716 - val\_loss: 0.4320  
Epoch 97/100  
50/50 [=====] - 2s 40ms/step - loss: 0.3646 - val\_loss: 0.4179  
Epoch 98/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3641 - val\_loss: 0.4248  
Epoch 99/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3621 - val\_loss: 0.4255  
Epoch 100/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3608 - val\_loss: 0.4230



CA\_4 - True Future: 2787

CA\_4 - Model Prediction: 2673

CA\_4 - Model Percentage Error: 4.09%

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Training Model for TX\_1...

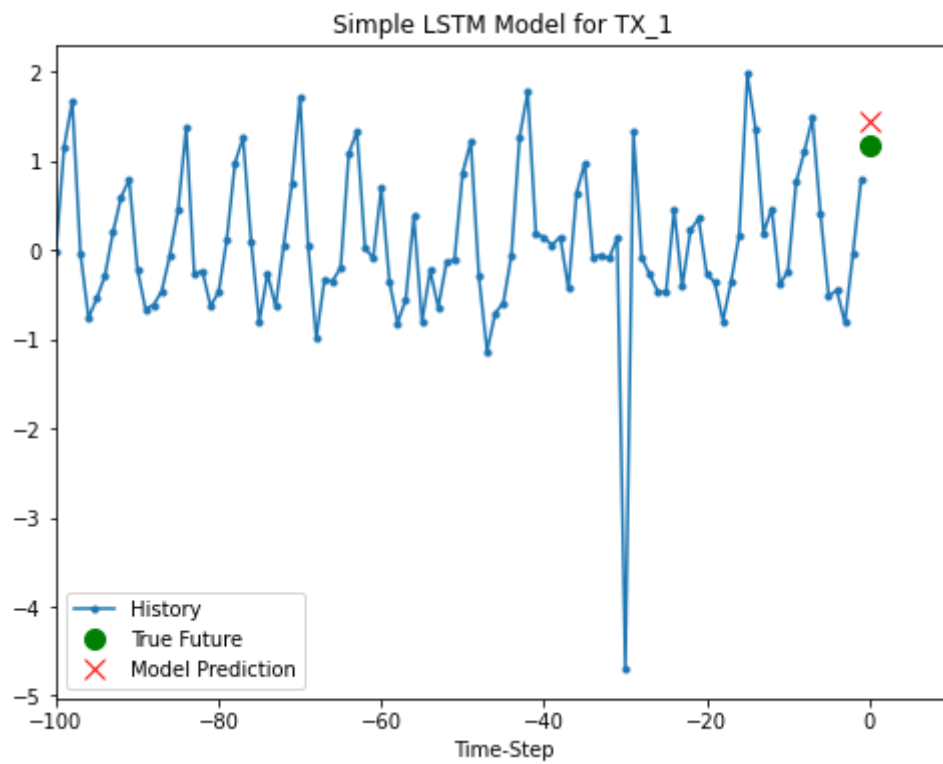
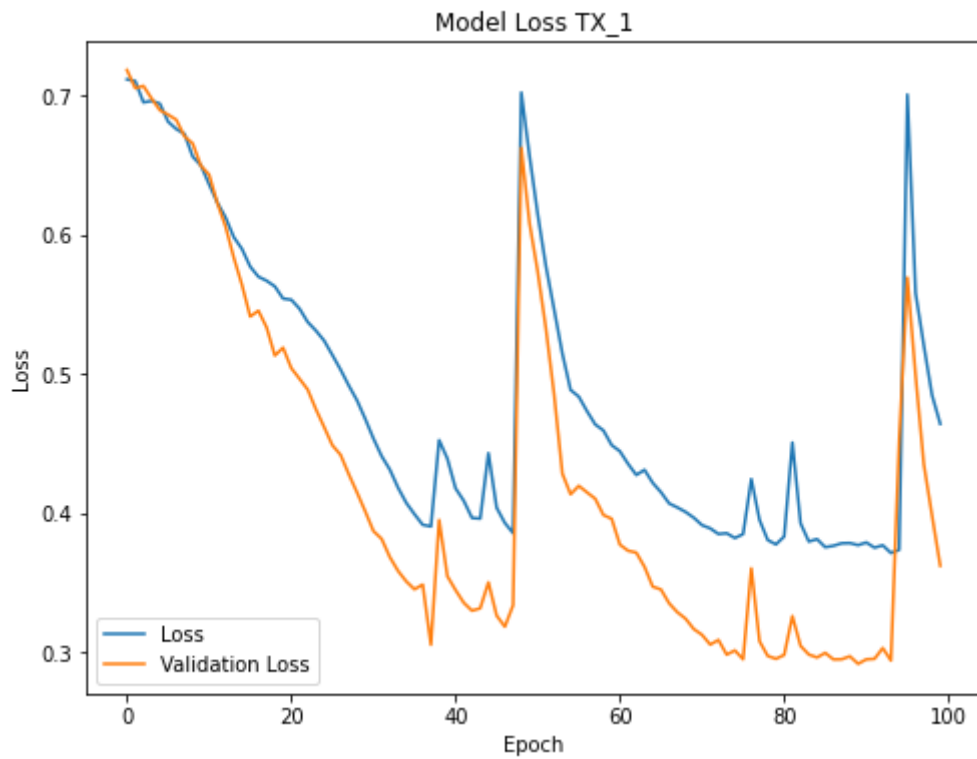
Epoch 1/100  
50/50 [=====] - 2s 45ms/step - loss: 0.7115 - val\_loss: 0.7182  
Epoch 2/100  
50/50 [=====] - 2s 38ms/step - loss: 0.7103 - val\_loss: 0.7052  
Epoch 3/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6950 - val\_loss: 0.7067  
Epoch 4/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6960 - val\_loss: 0.6977  
Epoch 5/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6940 - val\_loss: 0.6894  
Epoch 6/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6811 - val\_loss: 0.6861  
Epoch 7/100  
50/50 [=====] - 2s 39ms/step - loss: 0.6758 - val\_loss: 0.6825  
Epoch 8/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6723 - val\_loss: 0.6706  
Epoch 9/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6560 - val\_loss: 0.6654  
Epoch 10/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6496 - val\_loss: 0.6494  
Epoch 11/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6360 - val\_loss: 0.6430  
Epoch 12/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6230 - val\_loss: 0.6226  
Epoch 13/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6122 - val\_loss: 0.6057  
Epoch 14/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5981 - val\_loss: 0.5834  
Epoch 15/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5896 - val\_loss: 0.5638  
Epoch 16/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5769 - val\_loss: 0.5411  
Epoch 17/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5697 - val\_loss: 0.5452  
Epoch 18/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5668 - val\_loss: 0.5332  
Epoch 19/100  
50/50 [=====] - 2s 38ms/step - loss: 0.5627 - val\_loss: 0.5130  
Epoch 20/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5540 - val\_loss: 0.5187  
Epoch 21/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5531 - val\_loss: 0.5040  
Epoch 22/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5468 - val\_loss: 0.4964  
Epoch 23/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5371 - val\_loss: 0.4886  
Epoch 24/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5309 - val\_loss: 0.4744  
Epoch 25/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5237 - val\_loss: 0.4616  
Epoch 26/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5134 - val\_loss: 0.4486  
Epoch 27/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5029 - val\_loss: 0.4417

Epoch 28/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4915 - val\_loss: 0.4278  
Epoch 29/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4809 - val\_loss: 0.4147  
Epoch 30/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4676 - val\_loss: 0.4011  
Epoch 31/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4534 - val\_loss: 0.3869  
Epoch 32/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4408 - val\_loss: 0.3813  
Epoch 33/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4311 - val\_loss: 0.3682  
Epoch 34/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4181 - val\_loss: 0.3583  
Epoch 35/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4072 - val\_loss: 0.3507  
Epoch 36/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3990 - val\_loss: 0.3451  
Epoch 37/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3914 - val\_loss: 0.3485  
Epoch 38/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3903 - val\_loss: 0.3052  
Epoch 39/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4522 - val\_loss: 0.3949  
Epoch 40/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4390 - val\_loss: 0.3545  
Epoch 41/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4176 - val\_loss: 0.3445  
Epoch 42/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4086 - val\_loss: 0.3354  
Epoch 43/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3963 - val\_loss: 0.3297  
Epoch 44/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3959 - val\_loss: 0.3314  
Epoch 45/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4429 - val\_loss: 0.3501  
Epoch 46/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4037 - val\_loss: 0.3262  
Epoch 47/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3927 - val\_loss: 0.3182  
Epoch 48/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3855 - val\_loss: 0.3336  
Epoch 49/100  
50/50 [=====] - 2s 37ms/step - loss: 0.7020 - val\_loss: 0.6624  
Epoch 50/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6566 - val\_loss: 0.6082  
Epoch 51/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6146 - val\_loss: 0.5732  
Epoch 52/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5772 - val\_loss: 0.5323  
Epoch 53/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5460 - val\_loss: 0.4848  
Epoch 54/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5144 - val\_loss: 0.4282

Epoch 55/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4883 - val\_loss: 0.4134  
Epoch 56/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4835 - val\_loss: 0.4194  
Epoch 57/100  
50/50 [=====] - 2s 41ms/step - loss: 0.4731 - val\_loss: 0.4147  
Epoch 58/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4636 - val\_loss: 0.4101  
Epoch 59/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4592 - val\_loss: 0.3984  
Epoch 60/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4487 - val\_loss: 0.3957  
Epoch 61/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4443 - val\_loss: 0.3772  
Epoch 62/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4352 - val\_loss: 0.3728  
Epoch 63/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4272 - val\_loss: 0.3714  
Epoch 64/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4309 - val\_loss: 0.3612  
Epoch 65/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4215 - val\_loss: 0.3470  
Epoch 66/100  
50/50 [=====] - 2s 40ms/step - loss: 0.4149 - val\_loss: 0.3449  
Epoch 67/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4068 - val\_loss: 0.3350  
Epoch 68/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4039 - val\_loss: 0.3286  
Epoch 69/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4006 - val\_loss: 0.3239  
Epoch 70/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3965 - val\_loss: 0.3165  
Epoch 71/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3912 - val\_loss: 0.3124  
Epoch 72/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3888 - val\_loss: 0.3054  
Epoch 73/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3848 - val\_loss: 0.3087  
Epoch 74/100  
50/50 [=====] - 3s 55ms/step - loss: 0.3853 - val\_loss: 0.2982  
Epoch 75/100  
50/50 [=====] - 3s 65ms/step - loss: 0.3819 - val\_loss: 0.3011  
Epoch 76/100  
50/50 [=====] - 3s 50ms/step - loss: 0.3847 - val\_loss: 0.2948  
Epoch 77/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4243 - val\_loss: 0.3601  
Epoch 78/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3949 - val\_loss: 0.3078  
Epoch 79/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3804 - val\_loss: 0.2972  
Epoch 80/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3773 - val\_loss: 0.2951  
Epoch 81/100  
50/50 [=====] - 2s 41ms/step - loss: 0.3830 - val\_loss: 0.2979

Epoch 82/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4505 - val\_loss: 0.3258  
Epoch 83/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3925 - val\_loss: 0.3044  
Epoch 84/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3794 - val\_loss: 0.2982  
Epoch 85/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3811 - val\_loss: 0.2961  
Epoch 86/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3753 - val\_loss: 0.2994  
Epoch 87/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3763 - val\_loss: 0.2947  
Epoch 88/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3781 - val\_loss: 0.2948  
Epoch 89/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3783 - val\_loss: 0.2969  
Epoch 90/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3768 - val\_loss: 0.2915  
Epoch 91/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3787 - val\_loss: 0.2947  
Epoch 92/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3750 - val\_loss: 0.2951  
Epoch 93/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3767 - val\_loss: 0.3028  
Epoch 94/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3712 - val\_loss: 0.2939  
Epoch 95/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3734 - val\_loss: 0.4521  
Epoch 96/100  
50/50 [=====] - 2s 37ms/step - loss: 0.7006 - val\_loss: 0.5691  
Epoch 97/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5579 - val\_loss: 0.4987  
Epoch 98/100  
50/50 [=====] - 2s 38ms/step - loss: 0.5204 - val\_loss: 0.4350  
Epoch 99/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4847 - val\_loss: 0.3981  
Epoch 100/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4640 - val\_loss: 0.3620





TX\_1 - True Future: 3639

TX\_1 - Model Prediction: 3803

TX\_1 - Model Percentage Error: 4.51%

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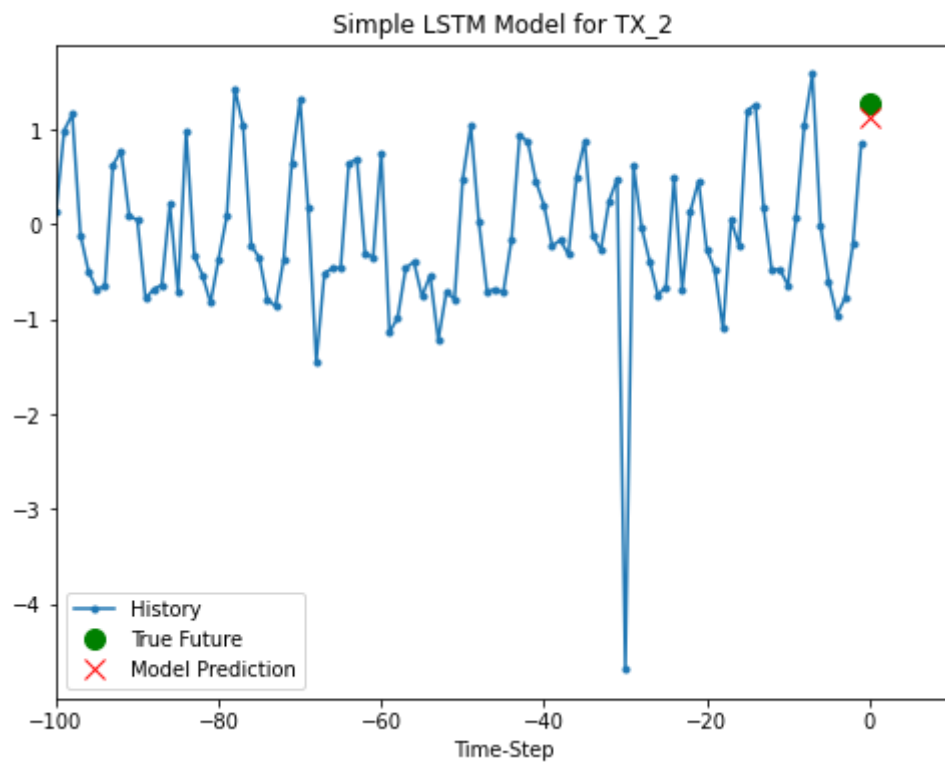
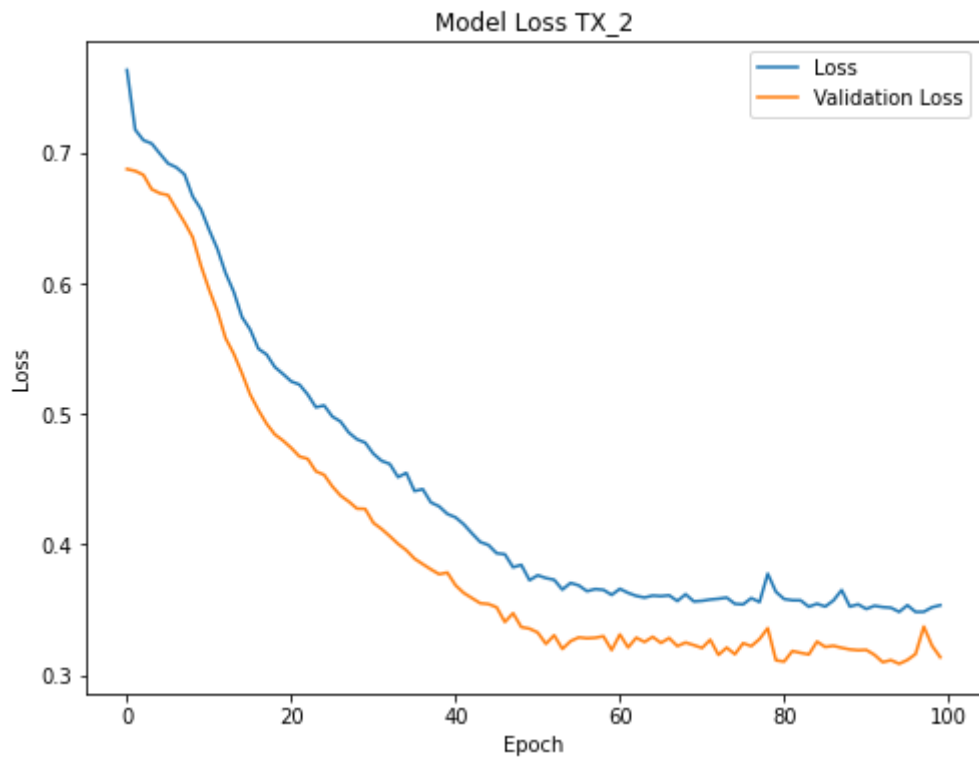
Training Model for TX\_2...

Epoch 1/100  
50/50 [=====] - 2s 42ms/step - loss: 0.7633 - val\_loss: 0.6874  
Epoch 2/100  
50/50 [=====] - 2s 37ms/step - loss: 0.7176 - val\_loss: 0.6860  
Epoch 3/100  
50/50 [=====] - 2s 37ms/step - loss: 0.7095 - val\_loss: 0.6830  
Epoch 4/100  
50/50 [=====] - 2s 37ms/step - loss: 0.7070 - val\_loss: 0.6720  
Epoch 5/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6993 - val\_loss: 0.6689  
Epoch 6/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6918 - val\_loss: 0.6675  
Epoch 7/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6888 - val\_loss: 0.6569  
Epoch 8/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6834 - val\_loss: 0.6466  
Epoch 9/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6664 - val\_loss: 0.6352  
Epoch 10/100  
50/50 [=====] - 2s 40ms/step - loss: 0.6567 - val\_loss: 0.6135  
Epoch 11/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6409 - val\_loss: 0.5952  
Epoch 12/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6264 - val\_loss: 0.5787  
Epoch 13/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6078 - val\_loss: 0.5580  
Epoch 14/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5934 - val\_loss: 0.5460  
Epoch 15/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5741 - val\_loss: 0.5310  
Epoch 16/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5646 - val\_loss: 0.5148  
Epoch 17/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5499 - val\_loss: 0.5029  
Epoch 18/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5454 - val\_loss: 0.4924  
Epoch 19/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5359 - val\_loss: 0.4843  
Epoch 20/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5305 - val\_loss: 0.4795  
Epoch 21/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5248 - val\_loss: 0.4739  
Epoch 22/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5224 - val\_loss: 0.4674  
Epoch 23/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5148 - val\_loss: 0.4656  
Epoch 24/100  
50/50 [=====] - 2s 38ms/step - loss: 0.5050 - val\_loss: 0.4560  
Epoch 25/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5064 - val\_loss: 0.4533  
Epoch 26/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4980 - val\_loss: 0.4445  
Epoch 27/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4941 - val\_loss: 0.4374

Epoch 28/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4857 - val\_loss: 0.4329  
Epoch 29/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4805 - val\_loss: 0.4275  
Epoch 30/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4780 - val\_loss: 0.4272  
Epoch 31/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4695 - val\_loss: 0.4165  
Epoch 32/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4640 - val\_loss: 0.4119  
Epoch 33/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4616 - val\_loss: 0.4063  
Epoch 34/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4515 - val\_loss: 0.4005  
Epoch 35/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4548 - val\_loss: 0.3956  
Epoch 36/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4409 - val\_loss: 0.3892  
Epoch 37/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4424 - val\_loss: 0.3850  
Epoch 38/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4322 - val\_loss: 0.3810  
Epoch 39/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4292 - val\_loss: 0.3772  
Epoch 40/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4234 - val\_loss: 0.3785  
Epoch 41/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4207 - val\_loss: 0.3687  
Epoch 42/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4154 - val\_loss: 0.3629  
Epoch 43/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4085 - val\_loss: 0.3589  
Epoch 44/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4019 - val\_loss: 0.3550  
Epoch 45/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3996 - val\_loss: 0.3544  
Epoch 46/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3933 - val\_loss: 0.3519  
Epoch 47/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3925 - val\_loss: 0.3406  
Epoch 48/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3825 - val\_loss: 0.3474  
Epoch 49/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3844 - val\_loss: 0.3368  
Epoch 50/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3726 - val\_loss: 0.3356  
Epoch 51/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3764 - val\_loss: 0.3326  
Epoch 52/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3743 - val\_loss: 0.3239  
Epoch 53/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3730 - val\_loss: 0.3305  
Epoch 54/100  
50/50 [=====] - 3s 53ms/step - loss: 0.3654 - val\_loss: 0.3200

Epoch 55/100  
50/50 [=====] - 2s 45ms/step - loss: 0.3706 - val\_loss: 0.3260  
Epoch 56/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3686 - val\_loss: 0.3289  
Epoch 57/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3642 - val\_loss: 0.3282  
Epoch 58/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3659 - val\_loss: 0.3286  
Epoch 59/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3652 - val\_loss: 0.3297  
Epoch 60/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3614 - val\_loss: 0.3191  
Epoch 61/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3660 - val\_loss: 0.3311  
Epoch 62/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3629 - val\_loss: 0.3211  
Epoch 63/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3606 - val\_loss: 0.3286  
Epoch 64/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3594 - val\_loss: 0.3253  
Epoch 65/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3609 - val\_loss: 0.3293  
Epoch 66/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3605 - val\_loss: 0.3246  
Epoch 67/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3611 - val\_loss: 0.3284  
Epoch 68/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3567 - val\_loss: 0.3222  
Epoch 69/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3619 - val\_loss: 0.3249  
Epoch 70/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3564 - val\_loss: 0.3229  
Epoch 71/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3569 - val\_loss: 0.3207  
Epoch 72/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3578 - val\_loss: 0.3271  
Epoch 73/100  
50/50 [=====] - 2s 40ms/step - loss: 0.3585 - val\_loss: 0.3155  
Epoch 74/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3593 - val\_loss: 0.3210  
Epoch 75/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3546 - val\_loss: 0.3160  
Epoch 76/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3541 - val\_loss: 0.3244  
Epoch 77/100  
50/50 [=====] - 2s 40ms/step - loss: 0.3589 - val\_loss: 0.3222  
Epoch 78/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3559 - val\_loss: 0.3276  
Epoch 79/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3776 - val\_loss: 0.3359  
Epoch 80/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3637 - val\_loss: 0.3113  
Epoch 81/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3582 - val\_loss: 0.3104

Epoch 82/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3573 - val\_loss: 0.3184  
Epoch 83/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3572 - val\_loss: 0.3170  
Epoch 84/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3523 - val\_loss: 0.3158  
Epoch 85/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3546 - val\_loss: 0.3256  
Epoch 86/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3525 - val\_loss: 0.3216  
Epoch 87/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3571 - val\_loss: 0.3224  
Epoch 88/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3651 - val\_loss: 0.3209  
Epoch 89/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3524 - val\_loss: 0.3196  
Epoch 90/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3542 - val\_loss: 0.3191  
Epoch 91/100  
50/50 [=====] - 2s 40ms/step - loss: 0.3506 - val\_loss: 0.3193  
Epoch 92/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3530 - val\_loss: 0.3155  
Epoch 93/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3521 - val\_loss: 0.3099  
Epoch 94/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3516 - val\_loss: 0.3114  
Epoch 95/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3484 - val\_loss: 0.3086  
Epoch 96/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3535 - val\_loss: 0.3115  
Epoch 97/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3484 - val\_loss: 0.3161  
Epoch 98/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3485 - val\_loss: 0.3371  
Epoch 99/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3519 - val\_loss: 0.3225  
Epoch 100/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3535 - val\_loss: 0.3137



TX\_2 - True Future: 4794

TX\_2 - Model Prediction: 4672

TX\_2 - Model Percentage Error: 2.54%

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Training Model for TX\_3...

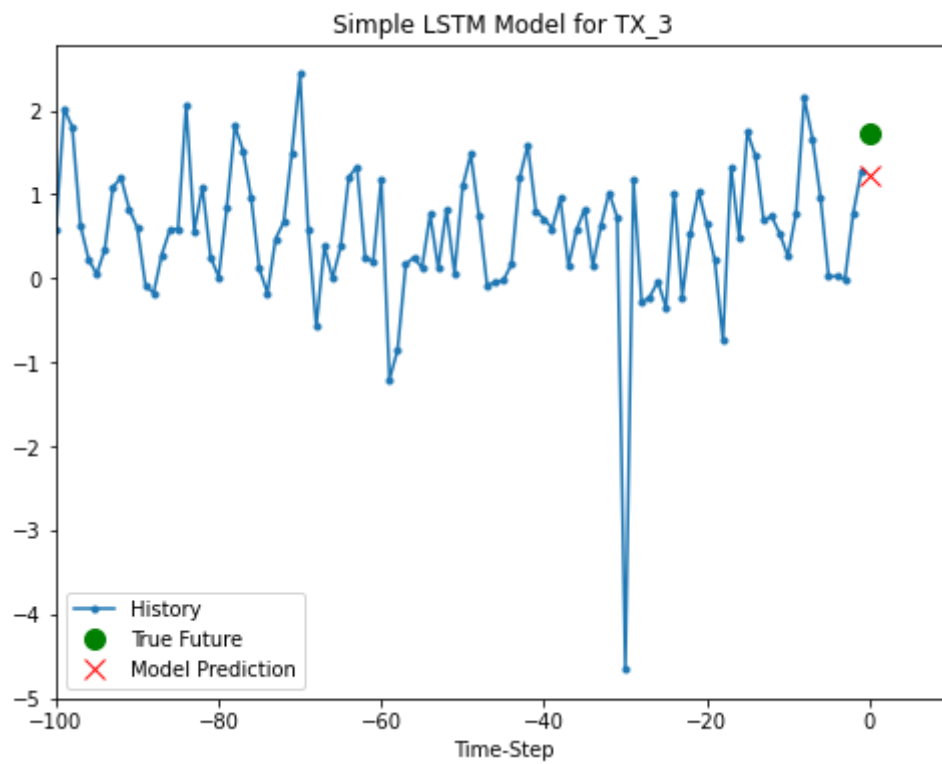
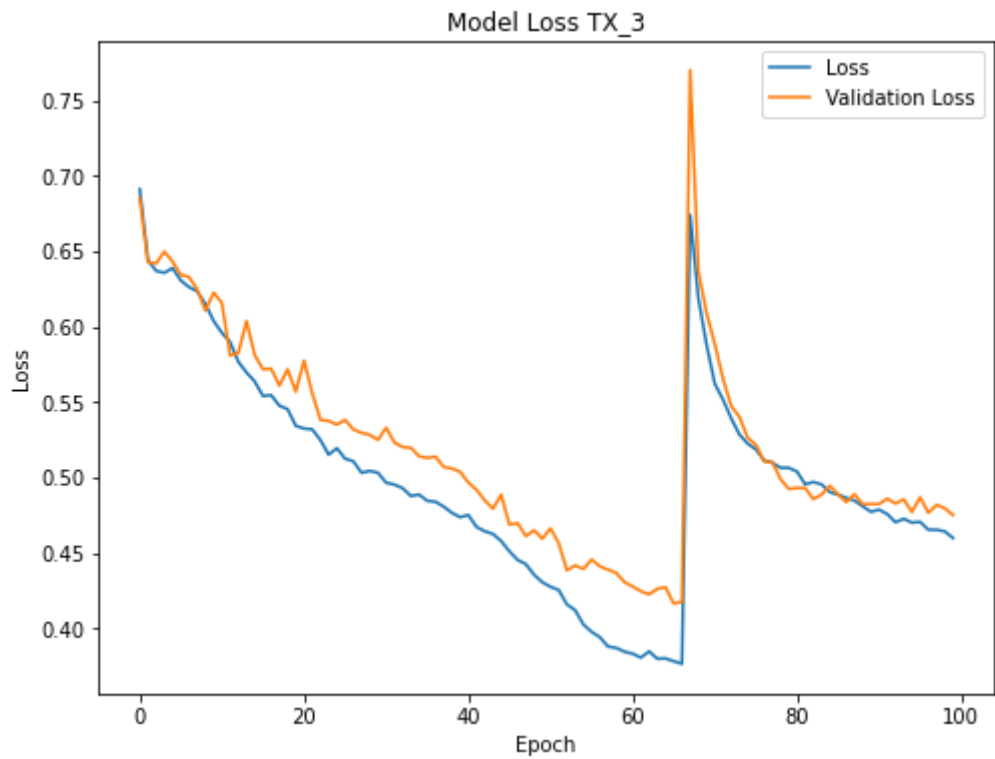
Epoch 1/100  
50/50 [=====] - 2s 44ms/step - loss: 0.6910 - val\_loss: 0.6853  
Epoch 2/100  
50/50 [=====] - 2s 41ms/step - loss: 0.6440 - val\_loss: 0.6426  
Epoch 3/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6368 - val\_loss: 0.6418  
Epoch 4/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6356 - val\_loss: 0.6497  
Epoch 5/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6387 - val\_loss: 0.6430  
Epoch 6/100  
50/50 [=====] - 2s 40ms/step - loss: 0.6305 - val\_loss: 0.6341  
Epoch 7/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6261 - val\_loss: 0.6329  
Epoch 8/100  
50/50 [=====] - 2s 39ms/step - loss: 0.6232 - val\_loss: 0.6246  
Epoch 9/100  
50/50 [=====] - 2s 39ms/step - loss: 0.6149 - val\_loss: 0.6105  
Epoch 10/100  
50/50 [=====] - 2s 37ms/step - loss: 0.6036 - val\_loss: 0.6224  
Epoch 11/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5958 - val\_loss: 0.6156  
Epoch 12/100  
50/50 [=====] - 2s 39ms/step - loss: 0.5897 - val\_loss: 0.5808  
Epoch 13/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5766 - val\_loss: 0.5823  
Epoch 14/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5695 - val\_loss: 0.6036  
Epoch 15/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5635 - val\_loss: 0.5810  
Epoch 16/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5539 - val\_loss: 0.5717  
Epoch 17/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5545 - val\_loss: 0.5720  
Epoch 18/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5475 - val\_loss: 0.5608  
Epoch 19/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5452 - val\_loss: 0.5716  
Epoch 20/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5341 - val\_loss: 0.5568  
Epoch 21/100  
50/50 [=====] - 2s 38ms/step - loss: 0.5324 - val\_loss: 0.5773  
Epoch 22/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5318 - val\_loss: 0.5558  
Epoch 23/100  
50/50 [=====] - 2s 38ms/step - loss: 0.5247 - val\_loss: 0.5381  
Epoch 24/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5150 - val\_loss: 0.5374  
Epoch 25/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5193 - val\_loss: 0.5350  
Epoch 26/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5124 - val\_loss: 0.5381  
Epoch 27/100  
50/50 [=====] - 2s 38ms/step - loss: 0.5106 - val\_loss: 0.5318

Epoch 28/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5030 - val\_loss: 0.5295  
Epoch 29/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5043 - val\_loss: 0.5282  
Epoch 30/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5031 - val\_loss: 0.5248  
Epoch 31/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4964 - val\_loss: 0.5329  
Epoch 32/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4952 - val\_loss: 0.5231  
Epoch 33/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4928 - val\_loss: 0.5201  
Epoch 34/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4876 - val\_loss: 0.5196  
Epoch 35/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4886 - val\_loss: 0.5140  
Epoch 36/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4844 - val\_loss: 0.5129  
Epoch 37/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4838 - val\_loss: 0.5137  
Epoch 38/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4806 - val\_loss: 0.5069  
Epoch 39/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4765 - val\_loss: 0.5058  
Epoch 40/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4735 - val\_loss: 0.5037  
Epoch 41/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4750 - val\_loss: 0.4965  
Epoch 42/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4671 - val\_loss: 0.4917  
Epoch 43/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4642 - val\_loss: 0.4848  
Epoch 44/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4625 - val\_loss: 0.4792  
Epoch 45/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4577 - val\_loss: 0.4885  
Epoch 46/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4510 - val\_loss: 0.4686  
Epoch 47/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4452 - val\_loss: 0.4696  
Epoch 48/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4425 - val\_loss: 0.4611  
Epoch 49/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4354 - val\_loss: 0.4649  
Epoch 50/100  
50/50 [=====] - 2s 40ms/step - loss: 0.4305 - val\_loss: 0.4593  
Epoch 51/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4274 - val\_loss: 0.4662  
Epoch 52/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4253 - val\_loss: 0.4563  
Epoch 53/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4158 - val\_loss: 0.4384  
Epoch 54/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4120 - val\_loss: 0.4416



Epoch 55/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4025 - val\_loss: 0.4393  
Epoch 56/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3976 - val\_loss: 0.4455  
Epoch 57/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3941 - val\_loss: 0.4410  
Epoch 58/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3878 - val\_loss: 0.4388  
Epoch 59/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3869 - val\_loss: 0.4367  
Epoch 60/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3844 - val\_loss: 0.4306  
Epoch 61/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3831 - val\_loss: 0.4276  
Epoch 62/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3805 - val\_loss: 0.4245  
Epoch 63/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3846 - val\_loss: 0.4224  
Epoch 64/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3798 - val\_loss: 0.4261  
Epoch 65/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3799 - val\_loss: 0.4271  
Epoch 66/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3781 - val\_loss: 0.4163  
Epoch 67/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3764 - val\_loss: 0.4174  
Epoch 68/100  
50/50 [=====] - 2s 39ms/step - loss: 0.6739 - val\_loss: 0.7700  
Epoch 69/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6188 - val\_loss: 0.6368  
Epoch 70/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5879 - val\_loss: 0.6087  
Epoch 71/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5620 - val\_loss: 0.5885  
Epoch 72/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5516 - val\_loss: 0.5654  
Epoch 73/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5391 - val\_loss: 0.5472  
Epoch 74/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5284 - val\_loss: 0.5401  
Epoch 75/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5223 - val\_loss: 0.5262  
Epoch 76/100  
50/50 [=====] - 2s 38ms/step - loss: 0.5186 - val\_loss: 0.5215  
Epoch 77/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5113 - val\_loss: 0.5105  
Epoch 78/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5096 - val\_loss: 0.5102  
Epoch 79/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5063 - val\_loss: 0.4989  
Epoch 80/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5063 - val\_loss: 0.4923  
Epoch 81/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5039 - val\_loss: 0.4929

Epoch 82/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4954 - val\_loss: 0.4930  
Epoch 83/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4969 - val\_loss: 0.4855  
Epoch 84/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4953 - val\_loss: 0.4886  
Epoch 85/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4902 - val\_loss: 0.4944  
Epoch 86/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4885 - val\_loss: 0.4888  
Epoch 87/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4864 - val\_loss: 0.4836  
Epoch 88/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4846 - val\_loss: 0.4888  
Epoch 89/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4808 - val\_loss: 0.4822  
Epoch 90/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4772 - val\_loss: 0.4823  
Epoch 91/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4786 - val\_loss: 0.4823  
Epoch 92/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4756 - val\_loss: 0.4858  
Epoch 93/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4702 - val\_loss: 0.4827  
Epoch 94/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4725 - val\_loss: 0.4853  
Epoch 95/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4699 - val\_loss: 0.4770  
Epoch 96/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4705 - val\_loss: 0.4868  
Epoch 97/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4652 - val\_loss: 0.4765  
Epoch 98/100  
50/50 [=====] - 2s 40ms/step - loss: 0.4652 - val\_loss: 0.4817  
Epoch 99/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4642 - val\_loss: 0.4795  
Epoch 100/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4598 - val\_loss: 0.4750



TX\_3 - True Future: 4286

TX\_3 - Model Prediction: 3957

TX\_3 - Model Percentage Error: 7.68%

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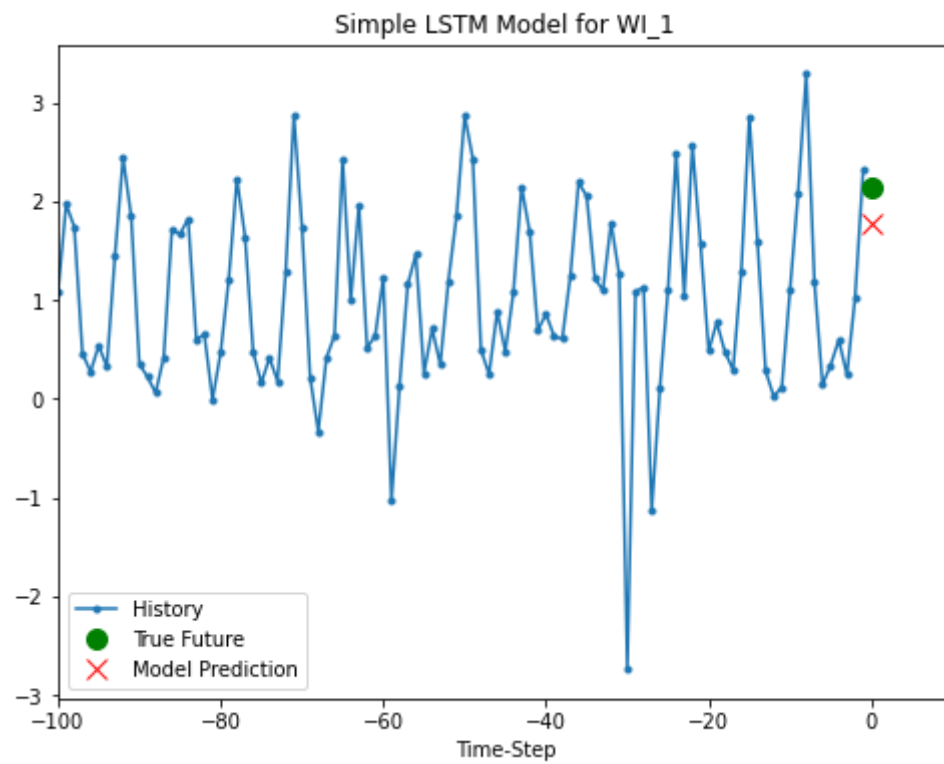
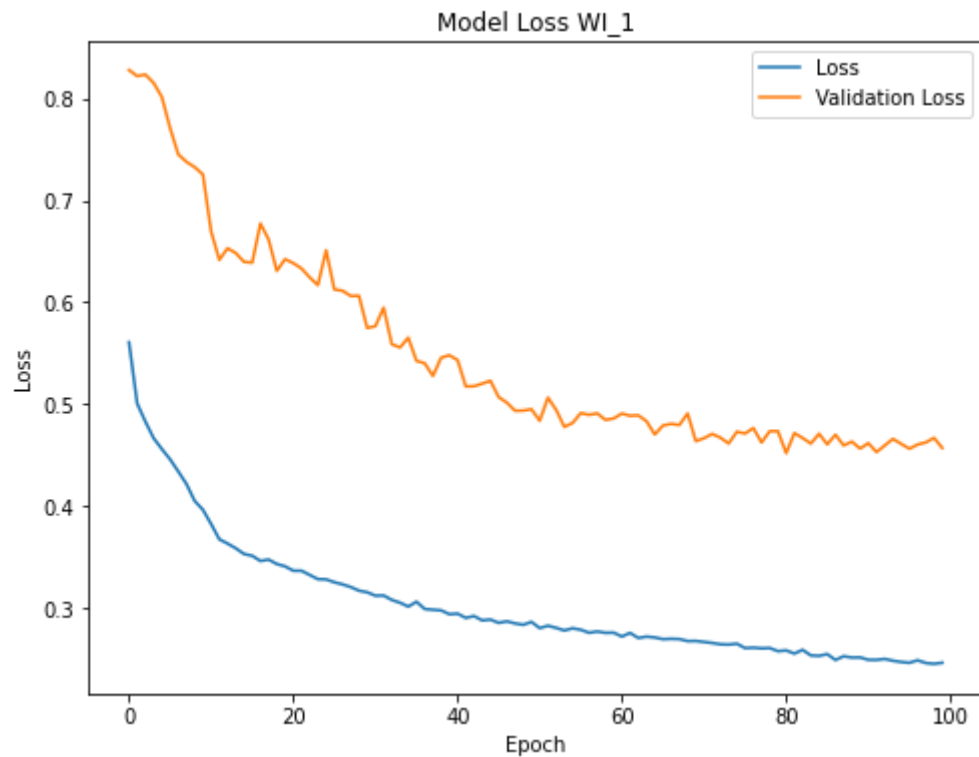
Training Model for WI\_1...

Epoch 1/100  
50/50 [=====] - 3s 53ms/step - loss: 0.5609 - val\_loss: 0.8278  
Epoch 2/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5007 - val\_loss: 0.8219  
Epoch 3/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4831 - val\_loss: 0.8233  
Epoch 4/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4668 - val\_loss: 0.8152  
Epoch 5/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4562 - val\_loss: 0.8014  
Epoch 6/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4461 - val\_loss: 0.7711  
Epoch 7/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4343 - val\_loss: 0.7451  
Epoch 8/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4219 - val\_loss: 0.7378  
Epoch 9/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4052 - val\_loss: 0.7326  
Epoch 10/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3966 - val\_loss: 0.7254  
Epoch 11/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3827 - val\_loss: 0.6696  
Epoch 12/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3677 - val\_loss: 0.6417  
Epoch 13/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3635 - val\_loss: 0.6530  
Epoch 14/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3589 - val\_loss: 0.6484  
Epoch 15/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3533 - val\_loss: 0.6398  
Epoch 16/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3515 - val\_loss: 0.6390  
Epoch 17/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3465 - val\_loss: 0.6773  
Epoch 18/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3478 - val\_loss: 0.6617  
Epoch 19/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3435 - val\_loss: 0.6309  
Epoch 20/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3411 - val\_loss: 0.6424  
Epoch 21/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3369 - val\_loss: 0.6385  
Epoch 22/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3368 - val\_loss: 0.6333  
Epoch 23/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3327 - val\_loss: 0.6246  
Epoch 24/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3286 - val\_loss: 0.6169  
Epoch 25/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3284 - val\_loss: 0.6511  
Epoch 26/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3256 - val\_loss: 0.6127  
Epoch 27/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3235 - val\_loss: 0.6114

Epoch 28/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3209 - val\_loss: 0.6063  
Epoch 29/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3173 - val\_loss: 0.6065  
Epoch 30/100  
50/50 [=====] - 2s 40ms/step - loss: 0.3157 - val\_loss: 0.5749  
Epoch 31/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3124 - val\_loss: 0.5767  
Epoch 32/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3126 - val\_loss: 0.5948  
Epoch 33/100  
50/50 [=====] - 2s 42ms/step - loss: 0.3082 - val\_loss: 0.5589  
Epoch 34/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3055 - val\_loss: 0.5558  
Epoch 35/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3017 - val\_loss: 0.5654  
Epoch 36/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3065 - val\_loss: 0.5426  
Epoch 37/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2993 - val\_loss: 0.5403  
Epoch 38/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2986 - val\_loss: 0.5279  
Epoch 39/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2980 - val\_loss: 0.5458  
Epoch 40/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2942 - val\_loss: 0.5482  
Epoch 41/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2948 - val\_loss: 0.5435  
Epoch 42/100  
50/50 [=====] - 2s 35ms/step - loss: 0.2906 - val\_loss: 0.5176  
Epoch 43/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2924 - val\_loss: 0.5178  
Epoch 44/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2882 - val\_loss: 0.5203  
Epoch 45/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2890 - val\_loss: 0.5231  
Epoch 46/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2858 - val\_loss: 0.5072  
Epoch 47/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2872 - val\_loss: 0.5017  
Epoch 48/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2852 - val\_loss: 0.4937  
Epoch 49/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2838 - val\_loss: 0.4939  
Epoch 50/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2867 - val\_loss: 0.4952  
Epoch 51/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2806 - val\_loss: 0.4839  
Epoch 52/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2829 - val\_loss: 0.5066  
Epoch 53/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2808 - val\_loss: 0.4945  
Epoch 54/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2783 - val\_loss: 0.4779

Epoch 55/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2804 - val\_loss: 0.4818  
Epoch 56/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2790 - val\_loss: 0.4915  
Epoch 57/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2760 - val\_loss: 0.4898  
Epoch 58/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2773 - val\_loss: 0.4912  
Epoch 59/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2760 - val\_loss: 0.4848  
Epoch 60/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2762 - val\_loss: 0.4862  
Epoch 61/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2723 - val\_loss: 0.4910  
Epoch 62/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2759 - val\_loss: 0.4888  
Epoch 63/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2709 - val\_loss: 0.4892  
Epoch 64/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2723 - val\_loss: 0.4835  
Epoch 65/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2714 - val\_loss: 0.4705  
Epoch 66/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2698 - val\_loss: 0.4792  
Epoch 67/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2701 - val\_loss: 0.4809  
Epoch 68/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2698 - val\_loss: 0.4798  
Epoch 69/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2679 - val\_loss: 0.4911  
Epoch 70/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2680 - val\_loss: 0.4640  
Epoch 71/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2670 - val\_loss: 0.4668  
Epoch 72/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2661 - val\_loss: 0.4710  
Epoch 73/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2647 - val\_loss: 0.4673  
Epoch 74/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2645 - val\_loss: 0.4616  
Epoch 75/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2653 - val\_loss: 0.4732  
Epoch 76/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2610 - val\_loss: 0.4714  
Epoch 77/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2614 - val\_loss: 0.4768  
Epoch 78/100  
50/50 [=====] - 2s 38ms/step - loss: 0.2608 - val\_loss: 0.4626  
Epoch 79/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2611 - val\_loss: 0.4737  
Epoch 80/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2580 - val\_loss: 0.4737  
Epoch 81/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2587 - val\_loss: 0.4522

Epoch 82/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2557 - val\_loss: 0.4718  
Epoch 83/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2593 - val\_loss: 0.4671  
Epoch 84/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2538 - val\_loss: 0.4616  
Epoch 85/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2534 - val\_loss: 0.4712  
Epoch 86/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2551 - val\_loss: 0.4608  
Epoch 87/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2493 - val\_loss: 0.4702  
Epoch 88/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2530 - val\_loss: 0.4597  
Epoch 89/100  
50/50 [=====] - 3s 56ms/step - loss: 0.2517 - val\_loss: 0.4634  
Epoch 90/100  
50/50 [=====] - 3s 52ms/step - loss: 0.2519 - val\_loss: 0.4567  
Epoch 91/100  
50/50 [=====] - 2s 41ms/step - loss: 0.2495 - val\_loss: 0.4619  
Epoch 92/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2495 - val\_loss: 0.4532  
Epoch 93/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2504 - val\_loss: 0.4597  
Epoch 94/100  
50/50 [=====] - 2s 37ms/step - loss: 0.2486 - val\_loss: 0.4661  
Epoch 95/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2474 - val\_loss: 0.4613  
Epoch 96/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2466 - val\_loss: 0.4565  
Epoch 97/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2490 - val\_loss: 0.4606  
Epoch 98/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2464 - val\_loss: 0.4627  
Epoch 99/100  
50/50 [=====] - 2s 36ms/step - loss: 0.2456 - val\_loss: 0.4672  
Epoch 100/100  
50/50 [=====] - 2s 39ms/step - loss: 0.2466 - val\_loss: 0.4573



WI\_1 - True Future: 4600

WI\_1 - Model Prediction: 4250

WI\_1 - Model Percentage Error: 7.61%

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Training Model for WI\_2...

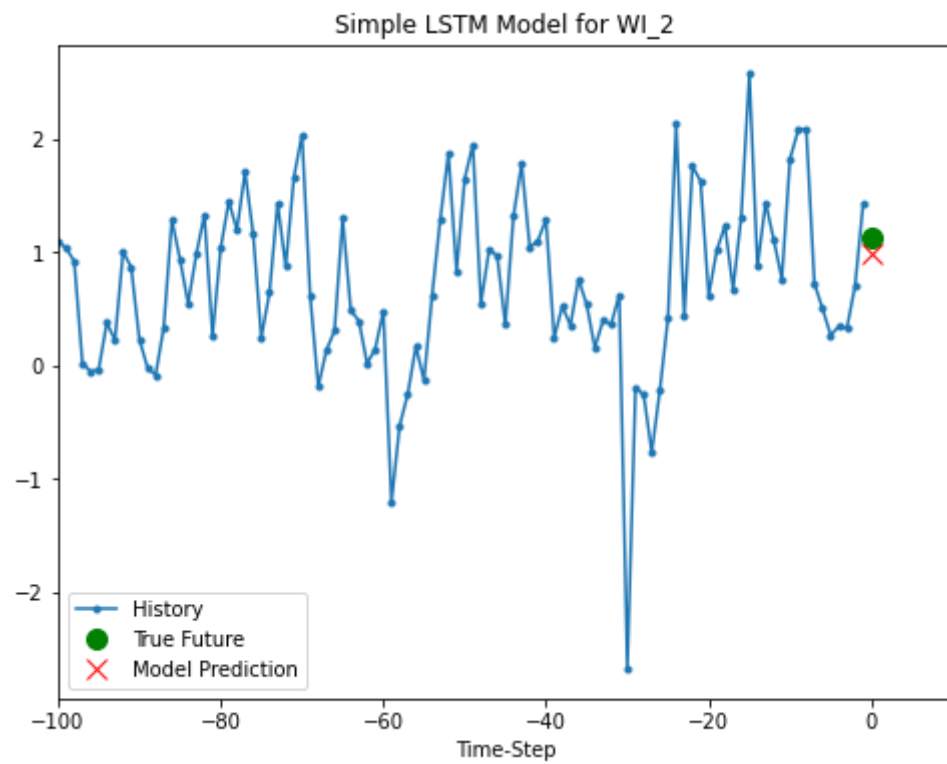
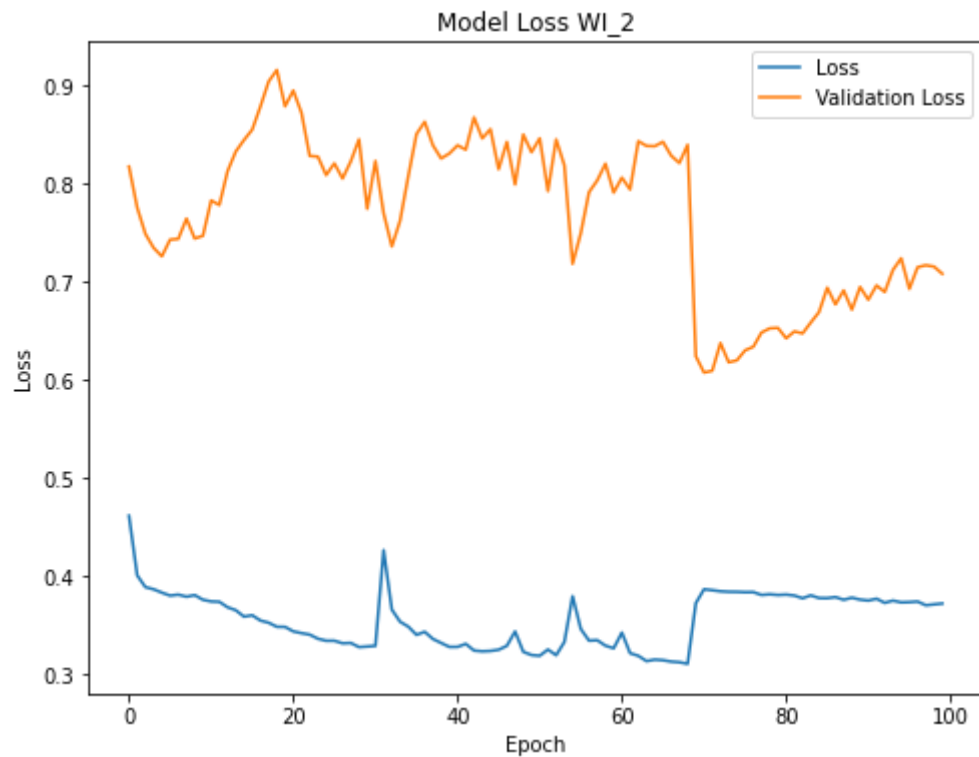


Epoch 1/100  
50/50 [=====] - 2s 43ms/step - loss: 0.4611 - val\_loss: 0.8171  
Epoch 2/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4003 - val\_loss: 0.7753  
Epoch 3/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3884 - val\_loss: 0.7484  
Epoch 4/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3862 - val\_loss: 0.7342  
Epoch 5/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3828 - val\_loss: 0.7256  
Epoch 6/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3797 - val\_loss: 0.7426  
Epoch 7/100  
50/50 [=====] - 2s 40ms/step - loss: 0.3807 - val\_loss: 0.7434  
Epoch 8/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3786 - val\_loss: 0.7640  
Epoch 9/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3802 - val\_loss: 0.7438  
Epoch 10/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3755 - val\_loss: 0.7465  
Epoch 11/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3738 - val\_loss: 0.7826  
Epoch 12/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3734 - val\_loss: 0.7780  
Epoch 13/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3679 - val\_loss: 0.8124  
Epoch 14/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3648 - val\_loss: 0.8325  
Epoch 15/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3583 - val\_loss: 0.8442  
Epoch 16/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3597 - val\_loss: 0.8547  
Epoch 17/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3543 - val\_loss: 0.8784  
Epoch 18/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3521 - val\_loss: 0.9039  
Epoch 19/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3480 - val\_loss: 0.9155  
Epoch 20/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3478 - val\_loss: 0.8785  
Epoch 21/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3433 - val\_loss: 0.8946  
Epoch 22/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3415 - val\_loss: 0.8719  
Epoch 23/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3400 - val\_loss: 0.8280  
Epoch 24/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3358 - val\_loss: 0.8273  
Epoch 25/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3337 - val\_loss: 0.8084  
Epoch 26/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3337 - val\_loss: 0.8204  
Epoch 27/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3311 - val\_loss: 0.8050

Epoch 28/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3314 - val\_loss: 0.8224  
Epoch 29/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3273 - val\_loss: 0.8449  
Epoch 30/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3278 - val\_loss: 0.7741  
Epoch 31/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3285 - val\_loss: 0.8228  
Epoch 32/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4261 - val\_loss: 0.7696  
Epoch 33/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3654 - val\_loss: 0.7357  
Epoch 34/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3531 - val\_loss: 0.7619  
Epoch 35/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3481 - val\_loss: 0.8073  
Epoch 36/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3397 - val\_loss: 0.8503  
Epoch 37/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3428 - val\_loss: 0.8628  
Epoch 38/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3355 - val\_loss: 0.8388  
Epoch 39/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3314 - val\_loss: 0.8254  
Epoch 40/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3274 - val\_loss: 0.8305  
Epoch 41/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3275 - val\_loss: 0.8388  
Epoch 42/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3305 - val\_loss: 0.8344  
Epoch 43/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3237 - val\_loss: 0.8672  
Epoch 44/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3230 - val\_loss: 0.8458  
Epoch 45/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3233 - val\_loss: 0.8552  
Epoch 46/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3245 - val\_loss: 0.8145  
Epoch 47/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3285 - val\_loss: 0.8423  
Epoch 48/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3432 - val\_loss: 0.7989  
Epoch 49/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3224 - val\_loss: 0.8498  
Epoch 50/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3191 - val\_loss: 0.8318  
Epoch 51/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3184 - val\_loss: 0.8459  
Epoch 52/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3247 - val\_loss: 0.7922  
Epoch 53/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3190 - val\_loss: 0.8448  
Epoch 54/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3325 - val\_loss: 0.8184

Epoch 55/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3791 - val\_loss: 0.7180  
Epoch 56/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3457 - val\_loss: 0.7493  
Epoch 57/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3338 - val\_loss: 0.7910  
Epoch 58/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3343 - val\_loss: 0.8030  
Epoch 59/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3287 - val\_loss: 0.8200  
Epoch 60/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3260 - val\_loss: 0.7906  
Epoch 61/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3420 - val\_loss: 0.8058  
Epoch 62/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3210 - val\_loss: 0.7938  
Epoch 63/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3184 - val\_loss: 0.8430  
Epoch 64/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3130 - val\_loss: 0.8382  
Epoch 65/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3145 - val\_loss: 0.8379  
Epoch 66/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3139 - val\_loss: 0.8423  
Epoch 67/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3124 - val\_loss: 0.8283  
Epoch 68/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3118 - val\_loss: 0.8207  
Epoch 69/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3102 - val\_loss: 0.8393  
Epoch 70/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3720 - val\_loss: 0.6238  
Epoch 71/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3862 - val\_loss: 0.6071  
Epoch 72/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3852 - val\_loss: 0.6089  
Epoch 73/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3841 - val\_loss: 0.6372  
Epoch 74/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3836 - val\_loss: 0.6176  
Epoch 75/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3835 - val\_loss: 0.6196  
Epoch 76/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3832 - val\_loss: 0.6297  
Epoch 77/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3833 - val\_loss: 0.6334  
Epoch 78/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3804 - val\_loss: 0.6479  
Epoch 79/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3811 - val\_loss: 0.6522  
Epoch 80/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3804 - val\_loss: 0.6527  
Epoch 81/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3808 - val\_loss: 0.6421

Epoch 82/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3798 - val\_loss: 0.6491  
Epoch 83/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3770 - val\_loss: 0.6471  
Epoch 84/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3800 - val\_loss: 0.6582  
Epoch 85/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3772 - val\_loss: 0.6688  
Epoch 86/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3771 - val\_loss: 0.6936  
Epoch 87/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3782 - val\_loss: 0.6766  
Epoch 88/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3755 - val\_loss: 0.6908  
Epoch 89/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3776 - val\_loss: 0.6713  
Epoch 90/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3756 - val\_loss: 0.6944  
Epoch 91/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3747 - val\_loss: 0.6813  
Epoch 92/100  
50/50 [=====] - 2s 39ms/step - loss: 0.3766 - val\_loss: 0.6960  
Epoch 93/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3724 - val\_loss: 0.6893  
Epoch 94/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3746 - val\_loss: 0.7117  
Epoch 95/100  
50/50 [=====] - 2s 40ms/step - loss: 0.3728 - val\_loss: 0.7236  
Epoch 96/100  
50/50 [=====] - 2s 38ms/step - loss: 0.3731 - val\_loss: 0.6925  
Epoch 97/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3737 - val\_loss: 0.7145  
Epoch 98/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3699 - val\_loss: 0.7165  
Epoch 99/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3708 - val\_loss: 0.7151  
Epoch 100/100  
50/50 [=====] - 2s 41ms/step - loss: 0.3716 - val\_loss: 0.7079



WI\_2 - True Future: 4670

WI\_2 - Model Prediction: 4494

WI\_2 - Model Percentage Error: 3.77%

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Training Model for WI\_3...

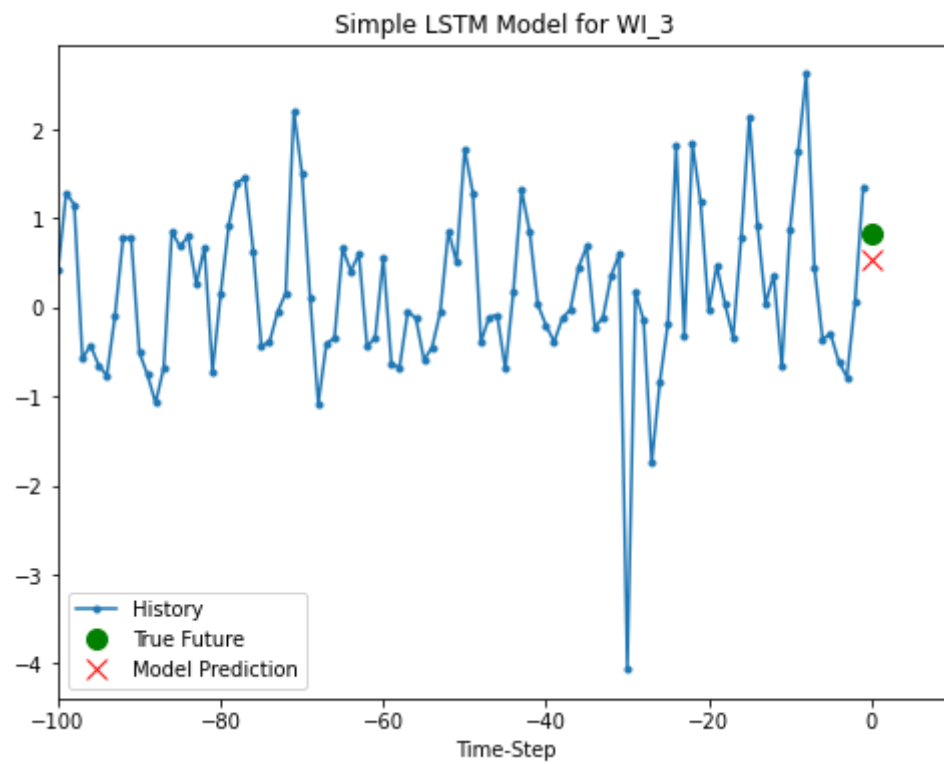
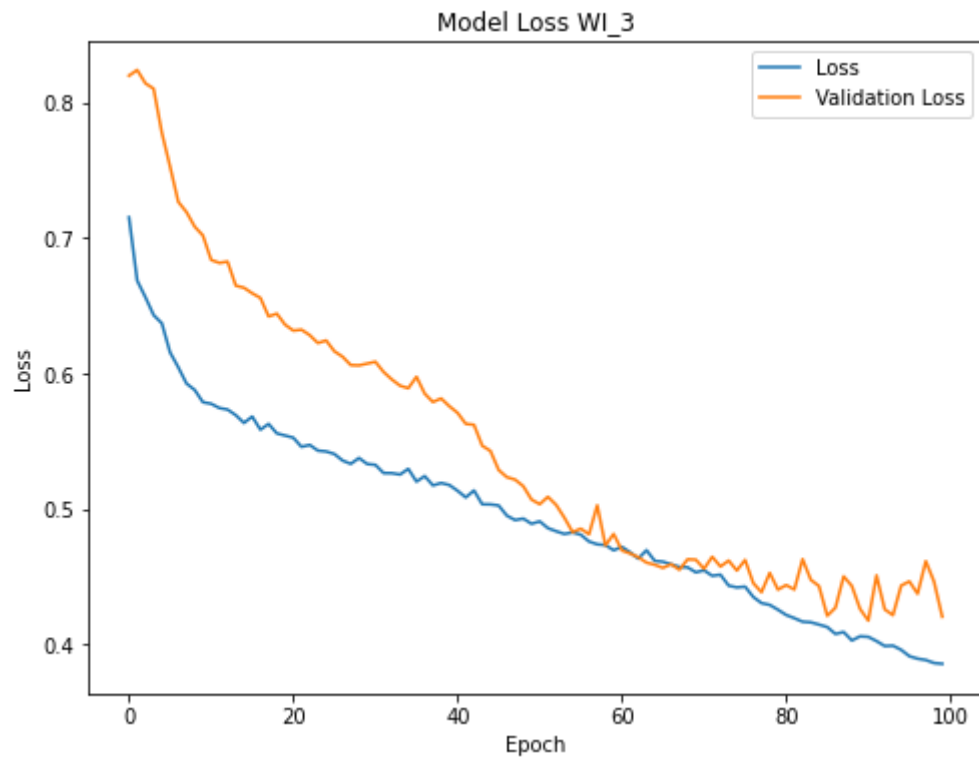
Epoch 1/100  
50/50 [=====] - 2s 42ms/step - loss: 0.7151 - val\_loss: 0.8196  
Epoch 2/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6684 - val\_loss: 0.8238  
Epoch 3/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6562 - val\_loss: 0.8140  
Epoch 4/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6430 - val\_loss: 0.8100  
Epoch 5/100  
50/50 [=====] - 2s 39ms/step - loss: 0.6370 - val\_loss: 0.7776  
Epoch 6/100  
50/50 [=====] - 2s 38ms/step - loss: 0.6155 - val\_loss: 0.7526  
Epoch 7/100  
50/50 [=====] - 2s 36ms/step - loss: 0.6045 - val\_loss: 0.7266  
Epoch 8/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5925 - val\_loss: 0.7190  
Epoch 9/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5878 - val\_loss: 0.7082  
Epoch 10/100  
50/50 [=====] - 2s 35ms/step - loss: 0.5787 - val\_loss: 0.7017  
Epoch 11/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5776 - val\_loss: 0.6837  
Epoch 12/100  
50/50 [=====] - 2s 38ms/step - loss: 0.5745 - val\_loss: 0.6815  
Epoch 13/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5733 - val\_loss: 0.6824  
Epoch 14/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5692 - val\_loss: 0.6647  
Epoch 15/100  
50/50 [=====] - 2s 35ms/step - loss: 0.5634 - val\_loss: 0.6632  
Epoch 16/100  
50/50 [=====] - 2s 39ms/step - loss: 0.5681 - val\_loss: 0.6591  
Epoch 17/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5585 - val\_loss: 0.6557  
Epoch 18/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5627 - val\_loss: 0.6420  
Epoch 19/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5557 - val\_loss: 0.6440  
Epoch 20/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5541 - val\_loss: 0.6360  
Epoch 21/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5526 - val\_loss: 0.6316  
Epoch 22/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5458 - val\_loss: 0.6322  
Epoch 23/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5472 - val\_loss: 0.6282  
Epoch 24/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5430 - val\_loss: 0.6224  
Epoch 25/100  
50/50 [=====] - 2s 35ms/step - loss: 0.5424 - val\_loss: 0.6243  
Epoch 26/100  
50/50 [=====] - 2s 35ms/step - loss: 0.5405 - val\_loss: 0.6163  
Epoch 27/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5357 - val\_loss: 0.6123

Epoch 28/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5332 - val\_loss: 0.6061  
Epoch 29/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5376 - val\_loss: 0.6059  
Epoch 30/100  
50/50 [=====] - 2s 35ms/step - loss: 0.5332 - val\_loss: 0.6072  
Epoch 31/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5325 - val\_loss: 0.6086  
Epoch 32/100  
50/50 [=====] - 2s 38ms/step - loss: 0.5265 - val\_loss: 0.6010  
Epoch 33/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5264 - val\_loss: 0.5955  
Epoch 34/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5254 - val\_loss: 0.5909  
Epoch 35/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5296 - val\_loss: 0.5890  
Epoch 36/100  
50/50 [=====] - 2s 35ms/step - loss: 0.5202 - val\_loss: 0.5975  
Epoch 37/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5242 - val\_loss: 0.5851  
Epoch 38/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5173 - val\_loss: 0.5789  
Epoch 39/100  
50/50 [=====] - 2s 35ms/step - loss: 0.5191 - val\_loss: 0.5815  
Epoch 40/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5176 - val\_loss: 0.5758  
Epoch 41/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5134 - val\_loss: 0.5709  
Epoch 42/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5085 - val\_loss: 0.5628  
Epoch 43/100  
50/50 [=====] - 2s 39ms/step - loss: 0.5136 - val\_loss: 0.5621  
Epoch 44/100  
50/50 [=====] - 2s 36ms/step - loss: 0.5034 - val\_loss: 0.5467  
Epoch 45/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5033 - val\_loss: 0.5428  
Epoch 46/100  
50/50 [=====] - 2s 37ms/step - loss: 0.5026 - val\_loss: 0.5287  
Epoch 47/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4950 - val\_loss: 0.5234  
Epoch 48/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4918 - val\_loss: 0.5216  
Epoch 49/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4929 - val\_loss: 0.5168  
Epoch 50/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4890 - val\_loss: 0.5069  
Epoch 51/100  
50/50 [=====] - 2s 40ms/step - loss: 0.4908 - val\_loss: 0.5035  
Epoch 52/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4858 - val\_loss: 0.5089  
Epoch 53/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4835 - val\_loss: 0.5030  
Epoch 54/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4815 - val\_loss: 0.4936

Epoch 55/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4827 - val\_loss: 0.4829  
Epoch 56/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4810 - val\_loss: 0.4854  
Epoch 57/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4760 - val\_loss: 0.4813  
Epoch 58/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4739 - val\_loss: 0.5027  
Epoch 59/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4733 - val\_loss: 0.4731  
Epoch 60/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4695 - val\_loss: 0.4816  
Epoch 61/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4720 - val\_loss: 0.4694  
Epoch 62/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4680 - val\_loss: 0.4671  
Epoch 63/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4634 - val\_loss: 0.4644  
Epoch 64/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4695 - val\_loss: 0.4604  
Epoch 65/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4617 - val\_loss: 0.4588  
Epoch 66/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4610 - val\_loss: 0.4565  
Epoch 67/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4591 - val\_loss: 0.4592  
Epoch 68/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4572 - val\_loss: 0.4551  
Epoch 69/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4569 - val\_loss: 0.4628  
Epoch 70/100  
50/50 [=====] - 2s 35ms/step - loss: 0.4532 - val\_loss: 0.4625  
Epoch 71/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4547 - val\_loss: 0.4559  
Epoch 72/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4507 - val\_loss: 0.4647  
Epoch 73/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4515 - val\_loss: 0.4575  
Epoch 74/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4434 - val\_loss: 0.4619  
Epoch 75/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4421 - val\_loss: 0.4546  
Epoch 76/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4427 - val\_loss: 0.4624  
Epoch 77/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4350 - val\_loss: 0.4452  
Epoch 78/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4305 - val\_loss: 0.4386  
Epoch 79/100  
50/50 [=====] - 2s 37ms/step - loss: 0.4292 - val\_loss: 0.4528  
Epoch 80/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4257 - val\_loss: 0.4405  
Epoch 81/100  
50/50 [=====] - 2s 35ms/step - loss: 0.4218 - val\_loss: 0.4438



Epoch 82/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4194 - val\_loss: 0.4405  
Epoch 83/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4168 - val\_loss: 0.4629  
Epoch 84/100  
50/50 [=====] - 2s 35ms/step - loss: 0.4164 - val\_loss: 0.4477  
Epoch 85/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4147 - val\_loss: 0.4430  
Epoch 86/100  
50/50 [=====] - 2s 39ms/step - loss: 0.4129 - val\_loss: 0.4212  
Epoch 87/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4078 - val\_loss: 0.4271  
Epoch 88/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4092 - val\_loss: 0.4502  
Epoch 89/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4030 - val\_loss: 0.4431  
Epoch 90/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4060 - val\_loss: 0.4262  
Epoch 91/100  
50/50 [=====] - 2s 36ms/step - loss: 0.4056 - val\_loss: 0.4176  
Epoch 92/100  
50/50 [=====] - 2s 38ms/step - loss: 0.4025 - val\_loss: 0.4510  
Epoch 93/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3989 - val\_loss: 0.4259  
Epoch 94/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3991 - val\_loss: 0.4216  
Epoch 95/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3960 - val\_loss: 0.4435  
Epoch 96/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3914 - val\_loss: 0.4465  
Epoch 97/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3895 - val\_loss: 0.4374  
Epoch 98/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3885 - val\_loss: 0.4615  
Epoch 99/100  
50/50 [=====] - 2s 37ms/step - loss: 0.3863 - val\_loss: 0.4464  
Epoch 100/100  
50/50 [=====] - 2s 36ms/step - loss: 0.3858 - val\_loss: 0.4205



WI\_3 - True Future: 3998

WI\_3 - Model Prediction: 3765

WI\_3 - Model Percentage Error: 5.83%

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