

Training Model for CA_1...

Epoch 1/100

50/50 [=====] - 5s 97ms/step - loss: 0.7822 - val_loss: 0.7197

Epoch 2/100

50/50 [=====] - 5s 91ms/step - loss: 0.7764 - val_loss: 0.7206

Epoch 3/100

50/50 [=====] - 7s 135ms/step - loss: 0.7768 - val_loss: 0.7215

Epoch 4/100

50/50 [=====] - 5s 96ms/step - loss: 0.7740 - val_loss: 0.7220

Epoch 5/100

50/50 [=====] - 4s 89ms/step - loss: 0.7733 - val_loss: 0.7221

Epoch 6/100

50/50 [=====] - 4s 88ms/step - loss: 0.7722 - val_loss: 0.7219

Epoch 7/100

50/50 [=====] - 4s 87ms/step - loss: 0.7697 - val_loss: 0.7209

Epoch 8/100

50/50 [=====] - 4s 88ms/step - loss: 0.7673 - val_loss: 0.7192

Epoch 9/100

50/50 [=====] - 4s 88ms/step - loss: 0.7621 - val_loss: 0.7169

Epoch 10/100

50/50 [=====] - 4s 88ms/step - loss: 0.7567 - val_loss: 0.7136

Epoch 11/100

50/50 [=====] - 5s 91ms/step - loss: 0.7486 - val_loss: 0.7102

Epoch 12/100

50/50 [=====] - 5s 91ms/step - loss: 0.7417 - val_loss: 0.7081

Epoch 13/100

50/50 [=====] - 4s 90ms/step - loss: 0.7340 - val_loss: 0.7061

Epoch 14/100

50/50 [=====] - 4s 88ms/step - loss: 0.7270 - val_loss: 0.7045

Epoch 15/100

50/50 [=====] - 4s 89ms/step - loss: 0.7188 - val_loss: 0.7018

Epoch 16/100

50/50 [=====] - 4s 89ms/step - loss: 0.7108 - val_loss: 0.6995

Epoch 17/100

50/50 [=====] - 4s 89ms/step - loss: 0.7010 - val_loss: 0.6941

Epoch 18/100

50/50 [=====] - 4s 88ms/step - loss: 0.6908 - val_loss: 0.6850

Epoch 19/100

50/50 [=====] - 4s 88ms/step - loss: 0.6757 - val_loss: 0.6755

Epoch 20/100

50/50 [=====] - 4s 88ms/step - loss: 0.6515 - val_loss: 0.6182

Epoch 21/100

50/50 [=====] - 4s 88ms/step - loss: 0.6034 - val_loss: 0.5576

Epoch 22/100

50/50 [=====] - 4s 88ms/step - loss: 0.5495 - val_loss: 0.4866

Epoch 23/100
50/50 [=====] - 4s 88ms/step - loss: 0.4738 - val_loss: 0.4861
Epoch 24/100
50/50 [=====] - 4s 88ms/step - loss: 0.4297 - val_loss: 0.4207
Epoch 25/100
50/50 [=====] - 4s 89ms/step - loss: 0.4170 - val_loss: 0.3905
Epoch 26/100
50/50 [=====] - 4s 87ms/step - loss: 0.4069 - val_loss: 0.4177
Epoch 27/100
50/50 [=====] - 4s 88ms/step - loss: 0.4107 - val_loss: 0.3981
Epoch 28/100
50/50 [=====] - 4s 87ms/step - loss: 0.3947 - val_loss: 0.4008
Epoch 29/100
50/50 [=====] - 4s 87ms/step - loss: 0.4015 - val_loss: 0.4031
Epoch 30/100
50/50 [=====] - 4s 88ms/step - loss: 0.4042 - val_loss: 0.3896
Epoch 31/100
50/50 [=====] - 4s 88ms/step - loss: 0.3860 - val_loss: 0.3918
Epoch 32/100
50/50 [=====] - 4s 88ms/step - loss: 0.3963 - val_loss: 0.3879
Epoch 33/100
50/50 [=====] - 4s 88ms/step - loss: 0.3799 - val_loss: 0.3664
Epoch 34/100
50/50 [=====] - 4s 88ms/step - loss: 0.3921 - val_loss: 0.3842
Epoch 35/100
50/50 [=====] - 4s 88ms/step - loss: 0.3811 - val_loss: 0.3748
Epoch 36/100
50/50 [=====] - 4s 88ms/step - loss: 0.3943 - val_loss: 0.3821
Epoch 37/100
50/50 [=====] - 4s 88ms/step - loss: 0.3690 - val_loss: 0.3700
Epoch 38/100
50/50 [=====] - 4s 88ms/step - loss: 0.3727 - val_loss: 0.3709
Epoch 39/100
50/50 [=====] - 5s 91ms/step - loss: 0.3844 - val_loss: 0.3571
Epoch 40/100
50/50 [=====] - 4s 90ms/step - loss: 0.3627 - val_loss: 0.3563
Epoch 41/100
50/50 [=====] - 4s 88ms/step - loss: 0.3773 - val_loss: 0.3481
Epoch 42/100
50/50 [=====] - 4s 88ms/step - loss: 0.3604 - val_loss: 0.3561
Epoch 43/100
50/50 [=====] - 4s 88ms/step - loss: 0.3854 - val_loss: 0.3708
Epoch 44/100
50/50 [=====] - 4s 88ms/step - loss: 0.3559 - val_loss: 0.3433
Epoch 45/100
50/50 [=====] - 4s 88ms/step - loss: 0.3680 - val_loss: 0.3754
Epoch 46/100
50/50 [=====] - 4s 89ms/step - loss: 0.3498 - val_loss: 0.3416

Epoch 47/100
50/50 [=====] - 4s 88ms/step - loss: 0.3662 - val_loss: 0.3471
Epoch 48/100
50/50 [=====] - 4s 88ms/step - loss: 0.3445 - val_loss: 0.3584
Epoch 49/100
50/50 [=====] - 4s 88ms/step - loss: 0.3420 - val_loss: 0.3384
Epoch 50/100
50/50 [=====] - 4s 89ms/step - loss: 0.3566 - val_loss: 0.3455
Epoch 51/100
50/50 [=====] - 4s 88ms/step - loss: 0.3503 - val_loss: 0.3236
Epoch 52/100
50/50 [=====] - 4s 87ms/step - loss: 0.3367 - val_loss: 0.3253
Epoch 53/100
50/50 [=====] - 4s 88ms/step - loss: 0.3350 - val_loss: 0.3452
Epoch 54/100
50/50 [=====] - 4s 87ms/step - loss: 0.3320 - val_loss: 0.3422
Epoch 55/100
50/50 [=====] - 4s 89ms/step - loss: 0.3734 - val_loss: 0.3367
Epoch 56/100
50/50 [=====] - 4s 88ms/step - loss: 0.3309 - val_loss: 0.3363
Epoch 57/100
50/50 [=====] - 4s 89ms/step - loss: 0.3291 - val_loss: 0.3313
Epoch 58/100
50/50 [=====] - 4s 88ms/step - loss: 0.3252 - val_loss: 0.3183
Epoch 59/100
50/50 [=====] - 4s 88ms/step - loss: 0.3238 - val_loss: 0.3199
Epoch 60/100
50/50 [=====] - 4s 88ms/step - loss: 0.3379 - val_loss: 0.3317
Epoch 61/100
50/50 [=====] - 4s 88ms/step - loss: 0.3207 - val_loss: 0.3211
Epoch 62/100
50/50 [=====] - 4s 89ms/step - loss: 0.3176 - val_loss: 0.3334
Epoch 63/100
50/50 [=====] - 4s 89ms/step - loss: 0.3151 - val_loss: 0.3235
Epoch 64/100
50/50 [=====] - 4s 88ms/step - loss: 0.3126 - val_loss: 0.3298
Epoch 65/100
50/50 [=====] - 4s 89ms/step - loss: 0.3330 - val_loss: 0.3259
Epoch 66/100
50/50 [=====] - 4s 88ms/step - loss: 0.3089 - val_loss: 0.3321
Epoch 67/100
50/50 [=====] - 4s 88ms/step - loss: 0.3067 - val_loss: 0.3325
Epoch 68/100
50/50 [=====] - 4s 88ms/step - loss: 0.3052 - val_loss: 0.3309
Epoch 69/100
50/50 [=====] - 4s 88ms/step - loss: 0.3047 - val_loss: 0.3180
Epoch 70/100
50/50 [=====] - 4s 90ms/step - loss: 0.4031 - val_loss: 0.5861

Epoch 71/100
50/50 [=====] - 4s 90ms/step - loss: 0.3764 - val_loss: 0.3387
Epoch 72/100
50/50 [=====] - 4s 89ms/step - loss: 0.3097 - val_loss: 0.3331
Epoch 73/100
50/50 [=====] - 4s 88ms/step - loss: 0.3039 - val_loss: 0.3227
Epoch 74/100
50/50 [=====] - 4s 88ms/step - loss: 0.3018 - val_loss: 0.3252
Epoch 75/100
50/50 [=====] - 4s 88ms/step - loss: 0.2999 - val_loss: 0.3236
Epoch 76/100
50/50 [=====] - 4s 89ms/step - loss: 0.2994 - val_loss: 0.3226
Epoch 77/100
50/50 [=====] - 4s 88ms/step - loss: 0.2984 - val_loss: 0.3237
Epoch 78/100
50/50 [=====] - 4s 88ms/step - loss: 0.2974 - val_loss: 0.3239
Epoch 79/100
50/50 [=====] - 4s 89ms/step - loss: 0.2976 - val_loss: 0.3237
Epoch 80/100
50/50 [=====] - 4s 88ms/step - loss: 0.2959 - val_loss: 0.3258
Epoch 81/100
50/50 [=====] - 4s 88ms/step - loss: 0.3087 - val_loss: 0.3144
Epoch 82/100
50/50 [=====] - 4s 88ms/step - loss: 0.2959 - val_loss: 0.3208
Epoch 83/100
50/50 [=====] - 4s 88ms/step - loss: 0.2953 - val_loss: 0.3299
Epoch 84/100
50/50 [=====] - 4s 87ms/step - loss: 0.2947 - val_loss: 0.3213
Epoch 85/100
50/50 [=====] - 4s 88ms/step - loss: 0.2940 - val_loss: 0.3202
Epoch 86/100
50/50 [=====] - 4s 89ms/step - loss: 0.2935 - val_loss: 0.3212
Epoch 87/100
50/50 [=====] - 4s 87ms/step - loss: 0.2926 - val_loss: 0.3189
Epoch 88/100
50/50 [=====] - 4s 88ms/step - loss: 0.3903 - val_loss: 0.3301
Epoch 89/100
50/50 [=====] - 4s 88ms/step - loss: 0.3027 - val_loss: 0.3174
Epoch 90/100
50/50 [=====] - 4s 86ms/step - loss: 0.2951 - val_loss: 0.3181
Epoch 91/100
50/50 [=====] - 4s 85ms/step - loss: 0.2937 - val_loss: 0.3191
Epoch 92/100
50/50 [=====] - 4s 86ms/step - loss: 0.2929 - val_loss: 0.3170
Epoch 93/100
50/50 [=====] - 4s 86ms/step - loss: 0.2925 - val_loss: 0.3102
Epoch 94/100
50/50 [=====] - 4s 86ms/step - loss: 0.2912 - val_loss: 0.3134

Epoch 95/100

50/50 [=====] - 4s 87ms/step - loss: 0.2906 - val_loss: 0.3127

Epoch 96/100

50/50 [=====] - 4s 86ms/step - loss: 0.2898 - val_loss: 0.3123

Epoch 97/100

50/50 [=====] - 4s 86ms/step - loss: 0.2905 - val_loss: 0.3127

Epoch 98/100

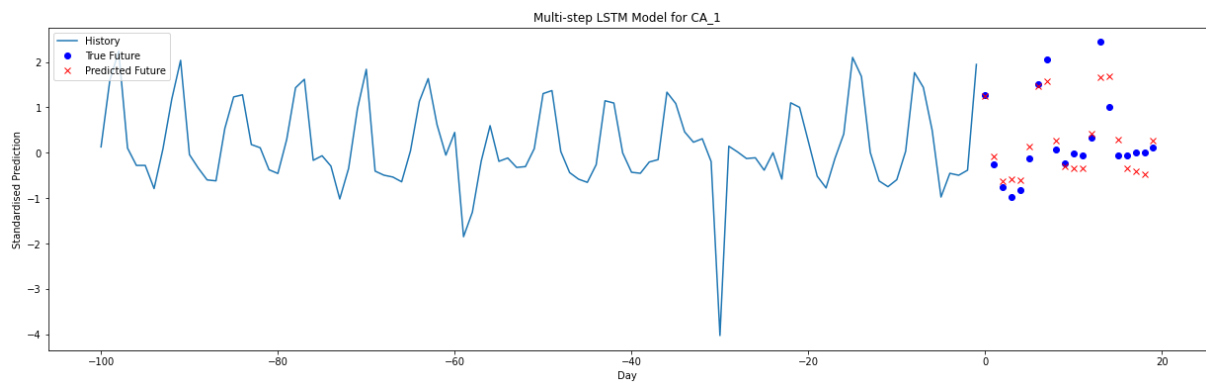
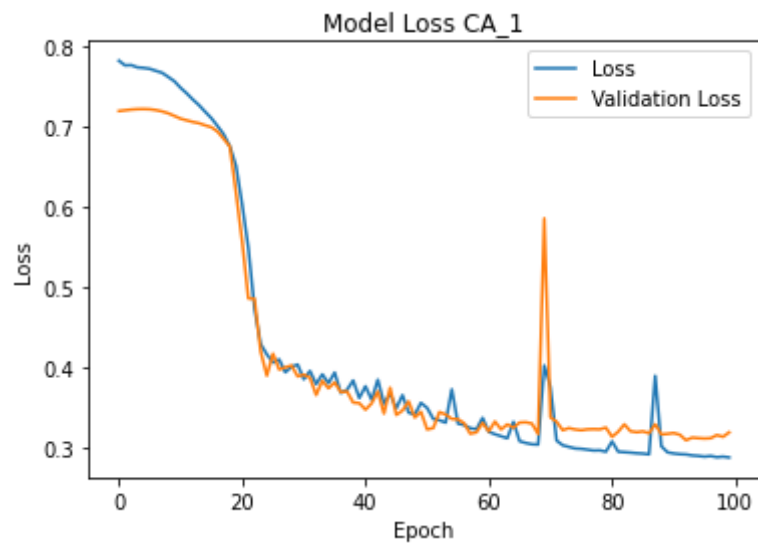
50/50 [=====] - 4s 86ms/step - loss: 0.2890 - val_loss: 0.3165

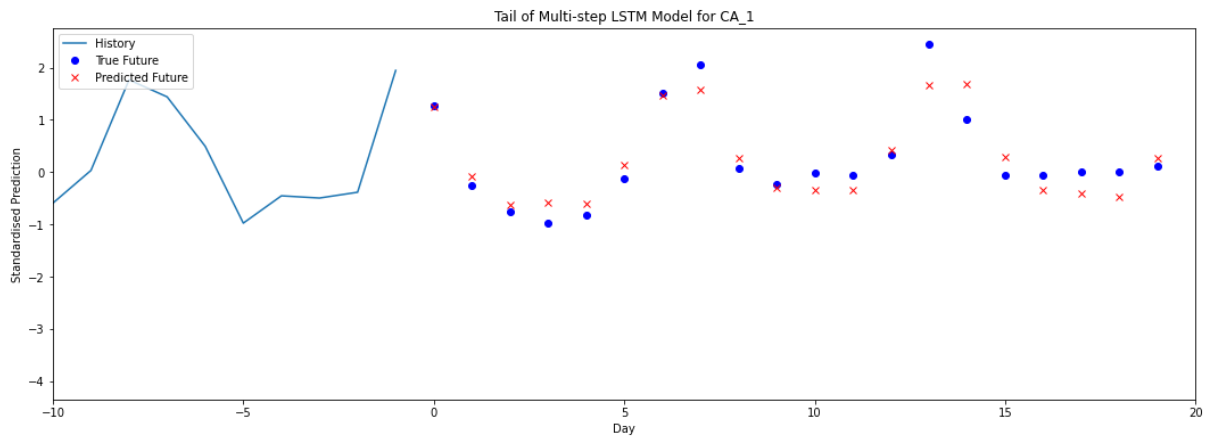
Epoch 99/100

50/50 [=====] - 4s 86ms/step - loss: 0.2897 - val_loss: 0.3144

Epoch 100/100

50/50 [=====] - 4s 87ms/step - loss: 0.2887 - val_loss: 0.3199





CA_1 - True Future: [5247. 3741. 3246. 3031. 3173. 3871. 5498. 6032. 4075. 3765. 3983. 3928. 4327. 6412. 4986. 3933. 3936. 3995. 4007. 4111.]

CA_1 - Model Prediction: [5239.6255 3919.4597 3370.4414 3409.9312 3402.9746 4139.616 5454.8447

5563.5923 4257.8574 3686.6758 3645.8838 3658.3442 4406.35 5633.075

5671.04 4274.378 3659.0957 3589.6177 3522.0408 4263.1533]

CA_1 - Model Percentage Error: [0.1405472 4.77037468 3.83368473 12.5018526 7.24786036 6.93919429

0.78492676 7.76537989 4.4872987 2.08032454 8.46387675 6.86496338

1.83383632 12.14792272 13.73927074 8.67983549 7.03517014 10.14724216

12.10280081 3.70112674]%

CA_1 - Model Mean Percentage Error: 6.7633744501285%

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Training Model for CA_2...

Epoch 1/100

50/50 [=====] - 5s 96ms/step - loss: 0.7877 - val_loss: 1.8135

Epoch 2/100

50/50 [=====] - 4s 87ms/step - loss: 0.7805 - val_loss: 1.8033

Epoch 3/100

50/50 [=====] - 4s 87ms/step - loss: 0.7729 - val_loss: 1.7089

Epoch 4/100

50/50 [=====] - 4s 87ms/step - loss: 0.7557 - val_loss: 1.5123

Epoch 5/100

50/50 [=====] - 4s 86ms/step - loss: 0.7446 - val_loss: 1.3795

Epoch 6/100

50/50 [=====] - 4s 87ms/step - loss: 0.7257 - val_loss: 1.2433

Epoch 7/100

50/50 [=====] - 4s 88ms/step - loss: 0.7117 - val_loss: 1.1628

Epoch 8/100

50/50 [=====] - 4s 89ms/step - loss: 0.7016 - val_loss: 1.1343

Epoch 9/100

50/50 [=====] - 4s 88ms/step - loss: 0.6928 - val_loss: 1.1271

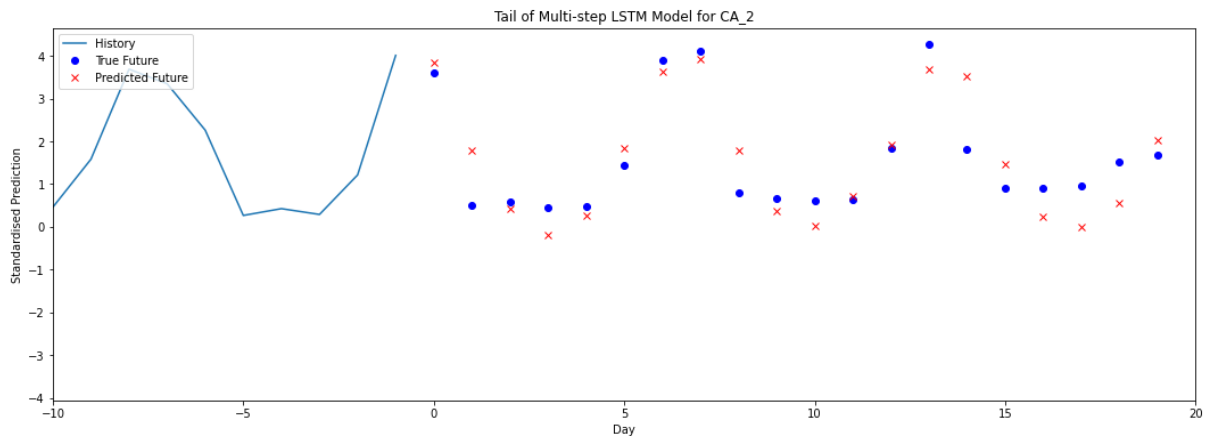
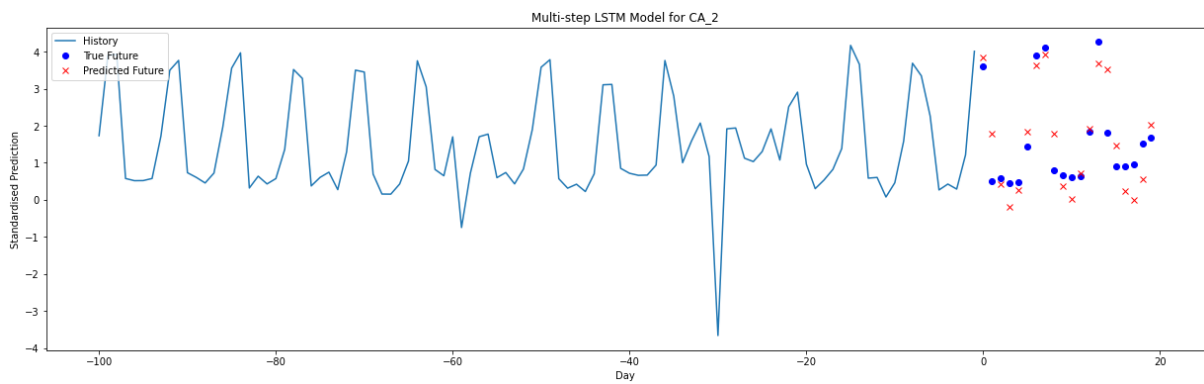
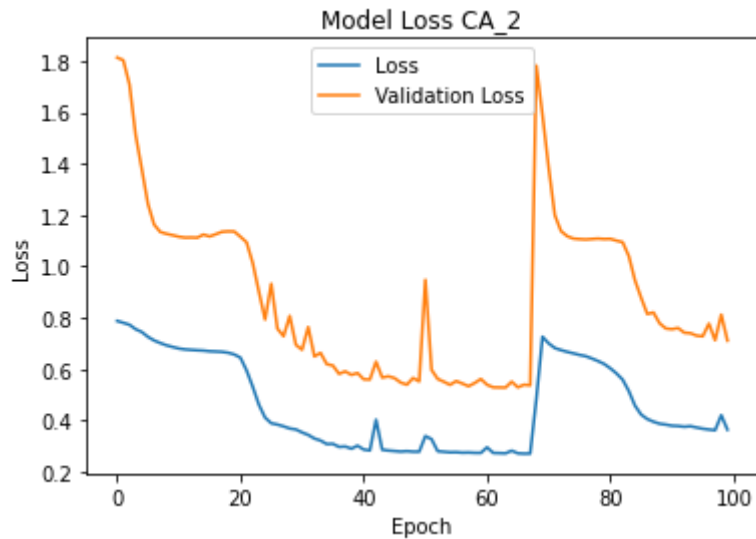
Epoch 10/100

50/50 [=====] - 4s 87ms/step - loss: 0.6864 - val_loss: 1.1218
Epoch 11/100
50/50 [=====] - 4s 87ms/step - loss: 0.6803 - val_loss: 1.1158
Epoch 12/100
50/50 [=====] - 4s 87ms/step - loss: 0.6769 - val_loss: 1.1124
Epoch 13/100
50/50 [=====] - 4s 87ms/step - loss: 0.6750 - val_loss: 1.1128
Epoch 14/100
50/50 [=====] - 4s 87ms/step - loss: 0.6734 - val_loss: 1.1121
Epoch 15/100
50/50 [=====] - 4s 87ms/step - loss: 0.6722 - val_loss: 1.1241
Epoch 16/100
50/50 [=====] - 4s 87ms/step - loss: 0.6696 - val_loss: 1.1168
Epoch 17/100
50/50 [=====] - 4s 86ms/step - loss: 0.6686 - val_loss: 1.1255
Epoch 18/100
50/50 [=====] - 4s 87ms/step - loss: 0.6673 - val_loss: 1.1350
Epoch 19/100
50/50 [=====] - 4s 86ms/step - loss: 0.6639 - val_loss: 1.1368
Epoch 20/100
50/50 [=====] - 4s 87ms/step - loss: 0.6572 - val_loss: 1.1362
Epoch 21/100
50/50 [=====] - 4s 87ms/step - loss: 0.6447 - val_loss: 1.1157
Epoch 22/100
50/50 [=====] - 4s 88ms/step - loss: 0.5949 - val_loss: 1.0939
Epoch 23/100
50/50 [=====] - 4s 88ms/step - loss: 0.5312 - val_loss: 1.0132
Epoch 24/100
50/50 [=====] - 4s 87ms/step - loss: 0.4614 - val_loss: 0.9017
Epoch 25/100
50/50 [=====] - 4s 88ms/step - loss: 0.4113 - val_loss: 0.7932
Epoch 26/100
50/50 [=====] - 4s 87ms/step - loss: 0.3892 - val_loss: 0.9326
Epoch 27/100
50/50 [=====] - 4s 87ms/step - loss: 0.3842 - val_loss: 0.7579
Epoch 28/100
50/50 [=====] - 4s 88ms/step - loss: 0.3771 - val_loss: 0.7283
Epoch 29/100
50/50 [=====] - 4s 87ms/step - loss: 0.3688 - val_loss: 0.8073
Epoch 30/100
50/50 [=====] - 4s 88ms/step - loss: 0.3650 - val_loss: 0.6945
Epoch 31/100
50/50 [=====] - 4s 88ms/step - loss: 0.3534 - val_loss: 0.6754
Epoch 32/100
50/50 [=====] - 4s 87ms/step - loss: 0.3438 - val_loss: 0.7639
Epoch 33/100
50/50 [=====] - 4s 87ms/step - loss: 0.3297 - val_loss: 0.6496
Epoch 34/100

50/50 [=====] - 4s 86ms/step - loss: 0.3218 - val_loss: 0.6632
Epoch 35/100
50/50 [=====] - 4s 87ms/step - loss: 0.3082 - val_loss: 0.6195
Epoch 36/100
50/50 [=====] - 4s 86ms/step - loss: 0.3090 - val_loss: 0.6139
Epoch 37/100
50/50 [=====] - 5s 108ms/step - loss: 0.2971 - val_loss: 0.5815
Epoch 38/100
50/50 [=====] - 5s 109ms/step - loss: 0.2987 - val_loss: 0.5913
Epoch 39/100
50/50 [=====] - 4s 87ms/step - loss: 0.2902 - val_loss: 0.5777
Epoch 40/100
50/50 [=====] - 4s 86ms/step - loss: 0.3019 - val_loss: 0.5847
Epoch 41/100
50/50 [=====] - 4s 87ms/step - loss: 0.2867 - val_loss: 0.5604
Epoch 42/100
50/50 [=====] - 4s 86ms/step - loss: 0.2835 - val_loss: 0.5596
Epoch 43/100
50/50 [=====] - 4s 87ms/step - loss: 0.4029 - val_loss: 0.6289
Epoch 44/100
50/50 [=====] - 4s 87ms/step - loss: 0.2861 - val_loss: 0.5672
Epoch 45/100
50/50 [=====] - 4s 87ms/step - loss: 0.2830 - val_loss: 0.5720
Epoch 46/100
50/50 [=====] - 4s 86ms/step - loss: 0.2809 - val_loss: 0.5650
Epoch 47/100
50/50 [=====] - 4s 87ms/step - loss: 0.2788 - val_loss: 0.5476
Epoch 48/100
50/50 [=====] - 4s 87ms/step - loss: 0.2805 - val_loss: 0.5395
Epoch 49/100
50/50 [=====] - 4s 87ms/step - loss: 0.2785 - val_loss: 0.5655
Epoch 50/100
50/50 [=====] - 4s 87ms/step - loss: 0.2784 - val_loss: 0.5520
Epoch 51/100
50/50 [=====] - 4s 87ms/step - loss: 0.3392 - val_loss: 0.9480
Epoch 52/100
50/50 [=====] - 4s 86ms/step - loss: 0.3273 - val_loss: 0.5973
Epoch 53/100
50/50 [=====] - 4s 87ms/step - loss: 0.2803 - val_loss: 0.5618
Epoch 54/100
50/50 [=====] - 4s 86ms/step - loss: 0.2781 - val_loss: 0.5509
Epoch 55/100
50/50 [=====] - 4s 87ms/step - loss: 0.2760 - val_loss: 0.5388
Epoch 56/100
50/50 [=====] - 4s 86ms/step - loss: 0.2765 - val_loss: 0.5535
Epoch 57/100
50/50 [=====] - 4s 86ms/step - loss: 0.2746 - val_loss: 0.5439
Epoch 58/100

50/50 [=====] - 4s 87ms/step - loss: 0.2752 - val_loss: 0.5334
Epoch 59/100
50/50 [=====] - 4s 86ms/step - loss: 0.2740 - val_loss: 0.5458
Epoch 60/100
50/50 [=====] - 4s 86ms/step - loss: 0.2737 - val_loss: 0.5615
Epoch 61/100
50/50 [=====] - 4s 87ms/step - loss: 0.2952 - val_loss: 0.5392
Epoch 62/100
50/50 [=====] - 4s 86ms/step - loss: 0.2737 - val_loss: 0.5291
Epoch 63/100
50/50 [=====] - 4s 86ms/step - loss: 0.2729 - val_loss: 0.5286
Epoch 64/100
50/50 [=====] - 4s 86ms/step - loss: 0.2720 - val_loss: 0.5282
Epoch 65/100
50/50 [=====] - 4s 87ms/step - loss: 0.2822 - val_loss: 0.5510
Epoch 66/100
50/50 [=====] - 4s 86ms/step - loss: 0.2721 - val_loss: 0.5291
Epoch 67/100
50/50 [=====] - 4s 86ms/step - loss: 0.2708 - val_loss: 0.5392
Epoch 68/100
50/50 [=====] - 4s 86ms/step - loss: 0.2712 - val_loss: 0.5369
Epoch 69/100
50/50 [=====] - 4s 87ms/step - loss: 0.4838 - val_loss: 1.7821
Epoch 70/100
50/50 [=====] - 4s 85ms/step - loss: 0.7261 - val_loss: 1.5893
Epoch 71/100
50/50 [=====] - 4s 87ms/step - loss: 0.7003 - val_loss: 1.3849
Epoch 72/100
50/50 [=====] - 4s 87ms/step - loss: 0.6822 - val_loss: 1.1997
Epoch 73/100
50/50 [=====] - 4s 87ms/step - loss: 0.6742 - val_loss: 1.1377
Epoch 74/100
50/50 [=====] - 4s 87ms/step - loss: 0.6673 - val_loss: 1.1180
Epoch 75/100
50/50 [=====] - 4s 87ms/step - loss: 0.6616 - val_loss: 1.1086
Epoch 76/100
50/50 [=====] - 4s 88ms/step - loss: 0.6554 - val_loss: 1.1065
Epoch 77/100
50/50 [=====] - 4s 89ms/step - loss: 0.6505 - val_loss: 1.1052
Epoch 78/100
50/50 [=====] - 4s 88ms/step - loss: 0.6416 - val_loss: 1.1068
Epoch 79/100
50/50 [=====] - 4s 88ms/step - loss: 0.6315 - val_loss: 1.1085
Epoch 80/100
50/50 [=====] - 4s 87ms/step - loss: 0.6202 - val_loss: 1.1067
Epoch 81/100
50/50 [=====] - 4s 87ms/step - loss: 0.6032 - val_loss: 1.1075
Epoch 82/100

50/50 [=====] - 4s 87ms/step - loss: 0.5833 - val_loss: 1.1005
Epoch 83/100
50/50 [=====] - 4s 88ms/step - loss: 0.5592 - val_loss: 1.0946
Epoch 84/100
50/50 [=====] - 4s 87ms/step - loss: 0.5149 - val_loss: 1.0406
Epoch 85/100
50/50 [=====] - 4s 87ms/step - loss: 0.4579 - val_loss: 0.9462
Epoch 86/100
50/50 [=====] - 4s 88ms/step - loss: 0.4231 - val_loss: 0.8780
Epoch 87/100
50/50 [=====] - 4s 86ms/step - loss: 0.4055 - val_loss: 0.8149
Epoch 88/100
50/50 [=====] - 4s 87ms/step - loss: 0.3951 - val_loss: 0.8206
Epoch 89/100
50/50 [=====] - 4s 87ms/step - loss: 0.3873 - val_loss: 0.7784
Epoch 90/100
50/50 [=====] - 4s 88ms/step - loss: 0.3840 - val_loss: 0.7584
Epoch 91/100
50/50 [=====] - 4s 87ms/step - loss: 0.3795 - val_loss: 0.7556
Epoch 92/100
50/50 [=====] - 4s 87ms/step - loss: 0.3784 - val_loss: 0.7601
Epoch 93/100
50/50 [=====] - 4s 87ms/step - loss: 0.3757 - val_loss: 0.7420
Epoch 94/100
50/50 [=====] - 4s 87ms/step - loss: 0.3778 - val_loss: 0.7400
Epoch 95/100
50/50 [=====] - 4s 88ms/step - loss: 0.3725 - val_loss: 0.7303
Epoch 96/100
50/50 [=====] - 4s 87ms/step - loss: 0.3679 - val_loss: 0.7281
Epoch 97/100
50/50 [=====] - 4s 88ms/step - loss: 0.3647 - val_loss: 0.7772
Epoch 98/100
50/50 [=====] - 4s 87ms/step - loss: 0.3621 - val_loss: 0.7127
Epoch 99/100
50/50 [=====] - 4s 87ms/step - loss: 0.4205 - val_loss: 0.8123
Epoch 100/100
50/50 [=====] - 4s 87ms/step - loss: 0.3642 - val_loss: 0.7112



CA_2 - True Future: [5647. 3240. 3294. 3189. 3211. 3964. 5873. 6037. 3454. 3360. 3314. 3333. 4276. 6150. 4251. 3537. 3549. 3586. 4026. 4140.]

CA_2 - Model Prediction: [5824.0625 4230.8984 3169.115 2695.5876 3041.5122 4283.0664 5654.8037

5881.542 4228.0767 3136.1643 2868.9666 3410.6533 4338.724 5703.6655

5573.6216 3979.2764 3020.8445 2847.9824 3285.663 4421.49]

CA_2 - Model Percentage Error: [3.13551443 30.58328511 3.79128749 15.47232215 5.2783492 8.04910207

3.71524415 2.57508709 22.41102085 6.66177659 13.42889099 2.32983259

1.46688777 7.2574711 31.11318706 12.50427954 14.88181227 20.58052365

18.38889503 6.79928102]%

CA_2 - Model Mean Percentage Error: 11.521202508676566%

=====
=====

Training Model for CA_3...

Epoch 1/100

50/50 [=====] - 5s 95ms/step - loss: 0.7351 - val_loss: 0.6548

Epoch 2/100

50/50 [=====] - 4s 86ms/step - loss: 0.7245 - val_loss: 0.6481

Epoch 3/100

50/50 [=====] - 4s 85ms/step - loss: 0.7076 - val_loss: 0.6425

Epoch 4/100

50/50 [=====] - 4s 86ms/step - loss: 0.6689 - val_loss: 0.6411

Epoch 5/100

50/50 [=====] - 4s 86ms/step - loss: 0.6366 - val_loss: 0.6389

Epoch 6/100

50/50 [=====] - 4s 88ms/step - loss: 0.6248 - val_loss: 0.6372

Epoch 7/100

50/50 [=====] - 4s 87ms/step - loss: 0.6220 - val_loss: 0.6368

Epoch 8/100

50/50 [=====] - 4s 87ms/step - loss: 0.6210 - val_loss: 0.6368

Epoch 9/100

50/50 [=====] - 4s 87ms/step - loss: 0.6205 - val_loss: 0.6370

Epoch 10/100

50/50 [=====] - 4s 86ms/step - loss: 0.6209 - val_loss: 0.6372

Epoch 11/100

50/50 [=====] - 4s 87ms/step - loss: 0.6190 - val_loss: 0.6377

Epoch 12/100

50/50 [=====] - 4s 87ms/step - loss: 0.6197 - val_loss: 0.6377

Epoch 13/100

50/50 [=====] - 4s 87ms/step - loss: 0.6194 - val_loss: 0.6377

Epoch 14/100

50/50 [=====] - 4s 87ms/step - loss: 0.6190 - val_loss: 0.6382

Epoch 15/100

50/50 [=====] - 4s 89ms/step - loss: 0.6185 - val_loss: 0.6381

Epoch 16/100

50/50 [=====] - 4s 88ms/step - loss: 0.6185 - val_loss: 0.6378

Epoch 17/100

50/50 [=====] - 4s 87ms/step - loss: 0.6176 - val_loss: 0.6382

Epoch 18/100

50/50 [=====] - 4s 88ms/step - loss: 0.6177 - val_loss: 0.6380

Epoch 19/100

50/50 [=====] - 4s 88ms/step - loss: 0.6163 - val_loss: 0.6382

Epoch 20/100

50/50 [=====] - 4s 86ms/step - loss: 0.6170 - val_loss: 0.6382

Epoch 21/100

50/50 [=====] - 4s 87ms/step - loss: 0.6160 - val_loss: 0.6383

Epoch 22/100
50/50 [=====] - 4s 86ms/step - loss: 0.6163 - val_loss: 0.6380
Epoch 23/100
50/50 [=====] - 4s 87ms/step - loss: 0.6145 - val_loss: 0.6373
Epoch 24/100
50/50 [=====] - 4s 86ms/step - loss: 0.6140 - val_loss: 0.6374
Epoch 25/100
50/50 [=====] - 4s 87ms/step - loss: 0.6137 - val_loss: 0.6367
Epoch 26/100
50/50 [=====] - 4s 86ms/step - loss: 0.6128 - val_loss: 0.6361
Epoch 27/100
50/50 [=====] - 4s 87ms/step - loss: 0.6118 - val_loss: 0.6351
Epoch 28/100
50/50 [=====] - 4s 87ms/step - loss: 0.6103 - val_loss: 0.6339
Epoch 29/100
50/50 [=====] - 4s 86ms/step - loss: 0.6098 - val_loss: 0.6335
Epoch 30/100
50/50 [=====] - 4s 87ms/step - loss: 0.6075 - val_loss: 0.6313
Epoch 31/100
50/50 [=====] - 4s 87ms/step - loss: 0.6073 - val_loss: 0.6297
Epoch 32/100
50/50 [=====] - 4s 86ms/step - loss: 0.6047 - val_loss: 0.6272
Epoch 33/100
50/50 [=====] - 4s 86ms/step - loss: 0.6033 - val_loss: 0.6246
Epoch 34/100
50/50 [=====] - 4s 86ms/step - loss: 0.6012 - val_loss: 0.6224
Epoch 35/100
50/50 [=====] - 4s 87ms/step - loss: 0.5998 - val_loss: 0.6191
Epoch 36/100
50/50 [=====] - 4s 85ms/step - loss: 0.5962 - val_loss: 0.6143
Epoch 37/100
50/50 [=====] - 4s 86ms/step - loss: 0.5917 - val_loss: 0.6091
Epoch 38/100
50/50 [=====] - 4s 87ms/step - loss: 0.6278 - val_loss: 0.6327
Epoch 39/100
50/50 [=====] - 4s 87ms/step - loss: 0.6055 - val_loss: 0.6276
Epoch 40/100
50/50 [=====] - 4s 86ms/step - loss: 0.5971 - val_loss: 0.6241
Epoch 41/100
50/50 [=====] - 4s 85ms/step - loss: 0.5924 - val_loss: 0.6148
Epoch 42/100
50/50 [=====] - 4s 86ms/step - loss: 0.5860 - val_loss: 0.6062
Epoch 43/100
50/50 [=====] - 4s 87ms/step - loss: 0.5785 - val_loss: 0.5821
Epoch 44/100
50/50 [=====] - 4s 87ms/step - loss: 0.5548 - val_loss: 0.5287
Epoch 45/100
50/50 [=====] - 4s 87ms/step - loss: 0.5160 - val_loss: 0.4892

Epoch 46/100
50/50 [=====] - 4s 89ms/step - loss: 0.4752 - val_loss: 0.4222
Epoch 47/100
50/50 [=====] - 4s 90ms/step - loss: 0.4379 - val_loss: 0.3764
Epoch 48/100
50/50 [=====] - 4s 87ms/step - loss: 0.4241 - val_loss: 0.3837
Epoch 49/100
50/50 [=====] - 4s 86ms/step - loss: 0.4121 - val_loss: 0.3787
Epoch 50/100
50/50 [=====] - 4s 85ms/step - loss: 0.4100 - val_loss: 0.3548
Epoch 51/100
50/50 [=====] - 4s 87ms/step - loss: 0.4067 - val_loss: 0.3775
Epoch 52/100
50/50 [=====] - 4s 86ms/step - loss: 0.4039 - val_loss: 0.3970
Epoch 53/100
50/50 [=====] - 4s 87ms/step - loss: 0.3987 - val_loss: 0.3716
Epoch 54/100
50/50 [=====] - 4s 87ms/step - loss: 0.3969 - val_loss: 0.3681
Epoch 55/100
50/50 [=====] - 4s 86ms/step - loss: 0.3936 - val_loss: 0.3591
Epoch 56/100
50/50 [=====] - 4s 88ms/step - loss: 0.3908 - val_loss: 0.3758
Epoch 57/100
50/50 [=====] - 4s 86ms/step - loss: 0.3884 - val_loss: 0.3807
Epoch 58/100
50/50 [=====] - 4s 88ms/step - loss: 0.3860 - val_loss: 0.3825
Epoch 59/100
50/50 [=====] - 4s 87ms/step - loss: 0.3829 - val_loss: 0.3653
Epoch 60/100
50/50 [=====] - 4s 87ms/step - loss: 0.3809 - val_loss: 0.3577
Epoch 61/100
50/50 [=====] - 4s 88ms/step - loss: 0.3779 - val_loss: 0.3565
Epoch 62/100
50/50 [=====] - 4s 88ms/step - loss: 0.3786 - val_loss: 0.3595
Epoch 63/100
50/50 [=====] - 4s 88ms/step - loss: 0.3794 - val_loss: 0.3759
Epoch 64/100
50/50 [=====] - 4s 88ms/step - loss: 0.3736 - val_loss: 0.3568
Epoch 65/100
50/50 [=====] - 4s 89ms/step - loss: 0.3738 - val_loss: 0.3601
Epoch 66/100
50/50 [=====] - 4s 87ms/step - loss: 0.3723 - val_loss: 0.3525
Epoch 67/100
50/50 [=====] - 4s 88ms/step - loss: 0.3708 - val_loss: 0.3550
Epoch 68/100
50/50 [=====] - 4s 88ms/step - loss: 0.3699 - val_loss: 0.3607
Epoch 69/100
50/50 [=====] - 4s 87ms/step - loss: 0.3691 - val_loss: 0.3634

Epoch 70/100
50/50 [=====] - 4s 87ms/step - loss: 0.3757 - val_loss: 0.3525
Epoch 71/100
50/50 [=====] - 4s 87ms/step - loss: 0.3652 - val_loss: 0.3814
Epoch 72/100
50/50 [=====] - 4s 87ms/step - loss: 0.3654 - val_loss: 0.3622
Epoch 73/100
50/50 [=====] - 5s 102ms/step - loss: 0.3714 - val_loss: 0.3522
Epoch 74/100
50/50 [=====] - 6s 116ms/step - loss: 0.3624 - val_loss: 0.3588
Epoch 75/100
50/50 [=====] - 4s 89ms/step - loss: 0.3677 - val_loss: 0.3545
Epoch 76/100
50/50 [=====] - 4s 87ms/step - loss: 0.3626 - val_loss: 0.3520
Epoch 77/100
50/50 [=====] - 4s 87ms/step - loss: 0.3577 - val_loss: 0.3457
Epoch 78/100
50/50 [=====] - 4s 87ms/step - loss: 0.3687 - val_loss: 0.3552
Epoch 79/100
50/50 [=====] - 4s 89ms/step - loss: 0.3554 - val_loss: 0.3624
Epoch 80/100
50/50 [=====] - 4s 86ms/step - loss: 0.3690 - val_loss: 0.3431
Epoch 81/100
50/50 [=====] - 4s 87ms/step - loss: 0.3552 - val_loss: 0.3429
Epoch 82/100
50/50 [=====] - 4s 86ms/step - loss: 0.3523 - val_loss: 0.3370
Epoch 83/100
50/50 [=====] - 4s 86ms/step - loss: 0.4622 - val_loss: 0.3480
Epoch 84/100
50/50 [=====] - 4s 87ms/step - loss: 0.3576 - val_loss: 0.3396
Epoch 85/100
50/50 [=====] - 4s 87ms/step - loss: 0.3515 - val_loss: 0.3381
Epoch 86/100
50/50 [=====] - 4s 87ms/step - loss: 0.3561 - val_loss: 0.3689
Epoch 87/100
50/50 [=====] - 4s 87ms/step - loss: 0.3492 - val_loss: 0.3366
Epoch 88/100
50/50 [=====] - 4s 86ms/step - loss: 0.3473 - val_loss: 0.3291
Epoch 89/100
50/50 [=====] - 4s 86ms/step - loss: 0.3436 - val_loss: 0.3281
Epoch 90/100
50/50 [=====] - 4s 86ms/step - loss: 0.5196 - val_loss: 0.3939
Epoch 91/100
50/50 [=====] - 4s 88ms/step - loss: 0.3606 - val_loss: 0.3292
Epoch 92/100
50/50 [=====] - 4s 89ms/step - loss: 0.3446 - val_loss: 0.3224
Epoch 93/100
50/50 [=====] - 4s 88ms/step - loss: 0.3416 - val_loss: 0.3296

Epoch 94/100

50/50 [=====] - 4s 87ms/step - loss: 0.3390 - val_loss: 0.3213

Epoch 95/100

50/50 [=====] - 4s 87ms/step - loss: 0.3377 - val_loss: 0.3145

Epoch 96/100

50/50 [=====] - 4s 87ms/step - loss: 0.3359 - val_loss: 0.3043

Epoch 97/100

50/50 [=====] - 4s 87ms/step - loss: 0.4178 - val_loss: 0.5721

Epoch 98/100

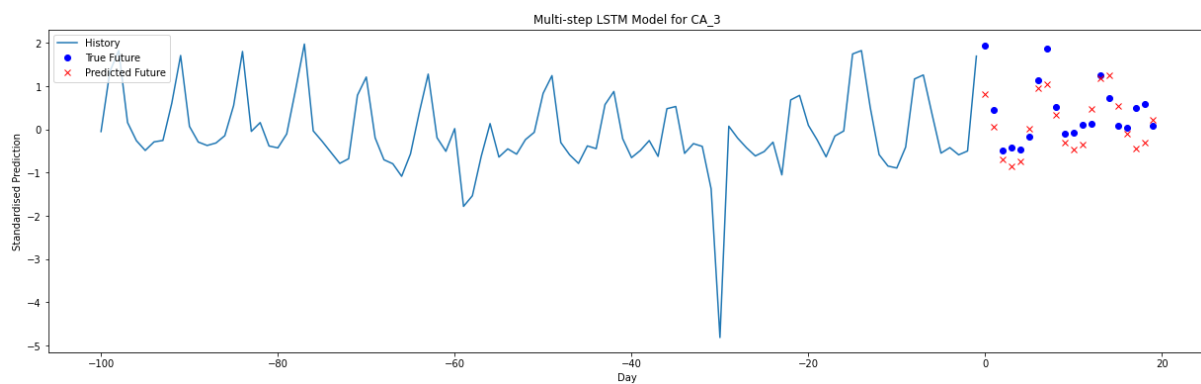
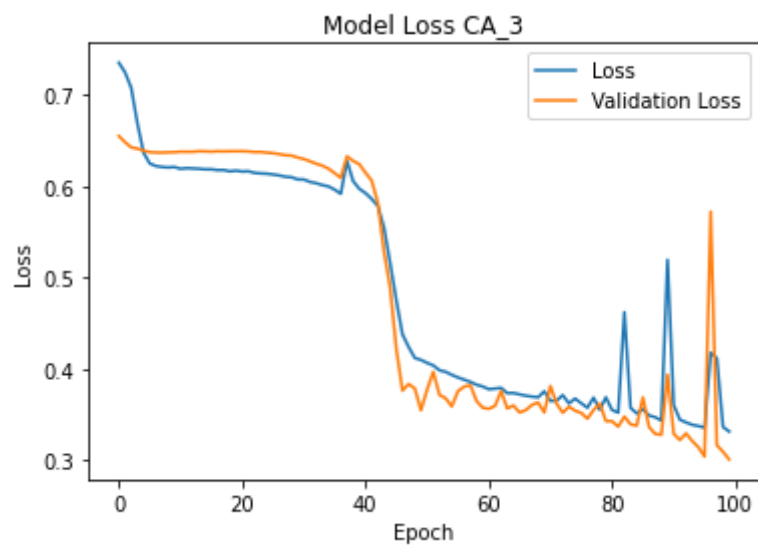
50/50 [=====] - 4s 89ms/step - loss: 0.4118 - val_loss: 0.3166

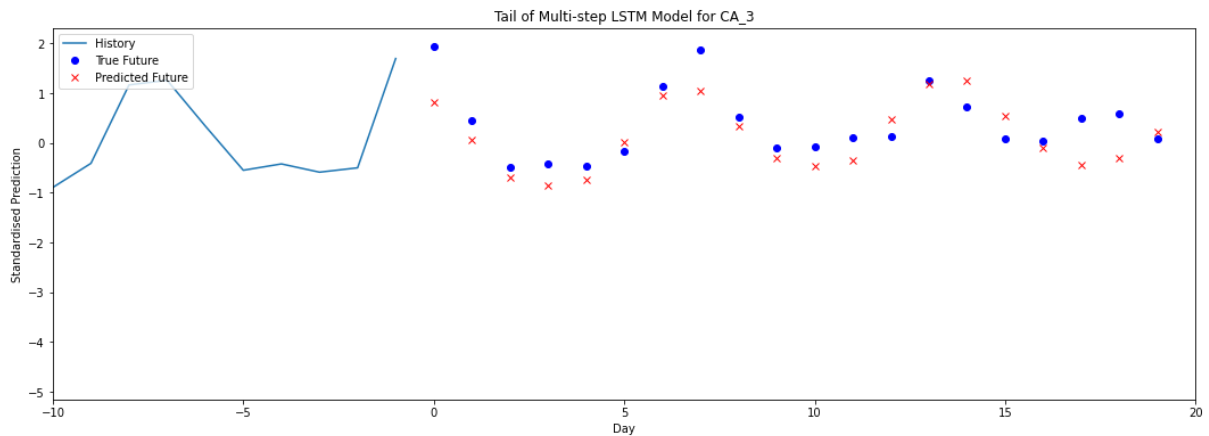
Epoch 99/100

50/50 [=====] - 4s 88ms/step - loss: 0.3366 - val_loss: 0.3096

Epoch 100/100

50/50 [=====] - 4s 87ms/step - loss: 0.3316 - val_loss: 0.3011





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

CA_3 - Model Prediction: [6814.381 5897.929 4989.8022 4803.949 4927.248 5844.598 6974.198

7086.311 6233.248 5459.808 5254.9707 5405.6733 6404.091 7255.37

7354.7783 6494.508 5707.7075 5288.445 5456.4014 6101.7935]

CA_3 - Model Percentage Error: [16.53134665 7.4253775 4.84740187 9.51310569 6.3438881 3.68277709

3.36430314 12.4498266 3.30052673 4.58217222 8.44998775 9.16361385

6.98447745 1.24717412 9.83838591 9.51952466 2.96314996 17.63829895

16.65799042 2.93173848]%

CA_3 - Model Mean Percentage Error: 7.871753357828338%

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Training Model for CA_4...

Epoch 1/100

50/50 [=====] - 5s 95ms/step - loss: 0.7264 - val_loss: 0.9756

Epoch 2/100

50/50 [=====] - 4s 86ms/step - loss: 0.6776 - val_loss: 0.7583

Epoch 3/100

50/50 [=====] - 4s 86ms/step - loss: 0.6200 - val_loss: 0.6381

Epoch 4/100

50/50 [=====] - 4s 86ms/step - loss: 0.5755 - val_loss: 0.6074

Epoch 5/100

50/50 [=====] - 4s 87ms/step - loss: 0.5637 - val_loss: 0.5966

Epoch 6/100

50/50 [=====] - 4s 87ms/step - loss: 0.5392 - val_loss: 0.5905

Epoch 7/100

50/50 [=====] - 4s 87ms/step - loss: 0.5244 - val_loss: 0.5912

Epoch 8/100

50/50 [=====] - 4s 87ms/step - loss: 0.5190 - val_loss: 0.5894

Epoch 9/100

50/50 [=====] - 4s 87ms/step - loss: 0.5166 - val_loss: 0.5936

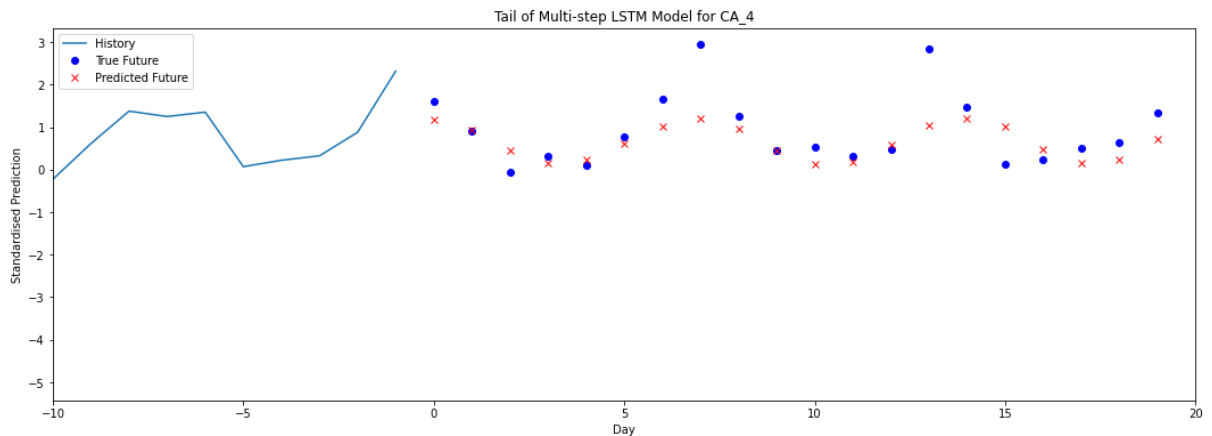
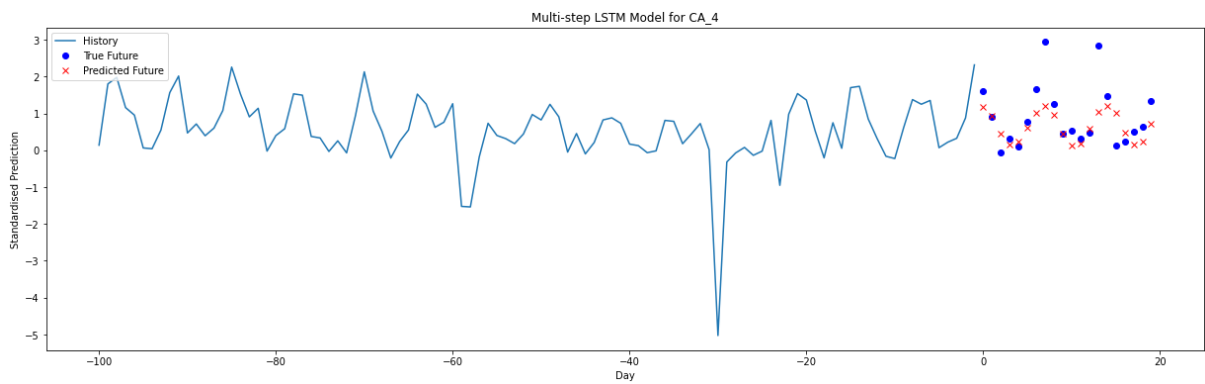
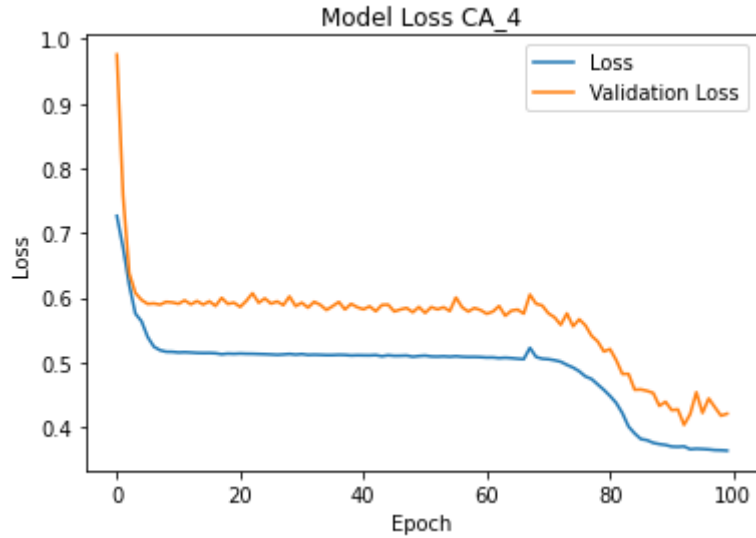
Epoch 10/100

50/50 [=====] - 4s 87ms/step - loss: 0.5165 - val_loss: 0.5928
Epoch 11/100
50/50 [=====] - 4s 88ms/step - loss: 0.5155 - val_loss: 0.5907
Epoch 12/100
50/50 [=====] - 4s 87ms/step - loss: 0.5159 - val_loss: 0.5960
Epoch 13/100
50/50 [=====] - 4s 87ms/step - loss: 0.5154 - val_loss: 0.5898
Epoch 14/100
50/50 [=====] - 4s 88ms/step - loss: 0.5148 - val_loss: 0.5948
Epoch 15/100
50/50 [=====] - 4s 89ms/step - loss: 0.5146 - val_loss: 0.5894
Epoch 16/100
50/50 [=====] - 4s 89ms/step - loss: 0.5147 - val_loss: 0.5945
Epoch 17/100
50/50 [=====] - 4s 87ms/step - loss: 0.5143 - val_loss: 0.5874
Epoch 18/100
50/50 [=====] - 4s 88ms/step - loss: 0.5127 - val_loss: 0.5998
Epoch 19/100
50/50 [=====] - 4s 88ms/step - loss: 0.5137 - val_loss: 0.5905
Epoch 20/100
50/50 [=====] - 4s 88ms/step - loss: 0.5134 - val_loss: 0.5924
Epoch 21/100
50/50 [=====] - 4s 87ms/step - loss: 0.5138 - val_loss: 0.5858
Epoch 22/100
50/50 [=====] - 4s 88ms/step - loss: 0.5135 - val_loss: 0.5952
Epoch 23/100
50/50 [=====] - 4s 87ms/step - loss: 0.5134 - val_loss: 0.6070
Epoch 24/100
50/50 [=====] - 4s 88ms/step - loss: 0.5131 - val_loss: 0.5922
Epoch 25/100
50/50 [=====] - 4s 88ms/step - loss: 0.5128 - val_loss: 0.5990
Epoch 26/100
50/50 [=====] - 4s 88ms/step - loss: 0.5124 - val_loss: 0.5909
Epoch 27/100
50/50 [=====] - 4s 88ms/step - loss: 0.5119 - val_loss: 0.5943
Epoch 28/100
50/50 [=====] - 4s 87ms/step - loss: 0.5124 - val_loss: 0.5885
Epoch 29/100
50/50 [=====] - 4s 87ms/step - loss: 0.5132 - val_loss: 0.6021
Epoch 30/100
50/50 [=====] - 4s 88ms/step - loss: 0.5122 - val_loss: 0.5870
Epoch 31/100
50/50 [=====] - 4s 87ms/step - loss: 0.5130 - val_loss: 0.5923
Epoch 32/100
50/50 [=====] - 4s 88ms/step - loss: 0.5117 - val_loss: 0.5848
Epoch 33/100
50/50 [=====] - 4s 88ms/step - loss: 0.5120 - val_loss: 0.5937
Epoch 34/100

50/50 [=====] - 4s 87ms/step - loss: 0.5118 - val_loss: 0.5891
Epoch 35/100
50/50 [=====] - 4s 87ms/step - loss: 0.5114 - val_loss: 0.5811
Epoch 36/100
50/50 [=====] - 4s 87ms/step - loss: 0.5114 - val_loss: 0.5870
Epoch 37/100
50/50 [=====] - 4s 88ms/step - loss: 0.5119 - val_loss: 0.5935
Epoch 38/100
50/50 [=====] - 4s 88ms/step - loss: 0.5117 - val_loss: 0.5820
Epoch 39/100
50/50 [=====] - 4s 87ms/step - loss: 0.5109 - val_loss: 0.5906
Epoch 40/100
50/50 [=====] - 4s 88ms/step - loss: 0.5112 - val_loss: 0.5853
Epoch 41/100
50/50 [=====] - 4s 87ms/step - loss: 0.5111 - val_loss: 0.5821
Epoch 42/100
50/50 [=====] - 4s 88ms/step - loss: 0.5110 - val_loss: 0.5867
Epoch 43/100
50/50 [=====] - 4s 88ms/step - loss: 0.5115 - val_loss: 0.5791
Epoch 44/100
50/50 [=====] - 4s 88ms/step - loss: 0.5096 - val_loss: 0.5889
Epoch 45/100
50/50 [=====] - 4s 88ms/step - loss: 0.5112 - val_loss: 0.5893
Epoch 46/100
50/50 [=====] - 4s 87ms/step - loss: 0.5103 - val_loss: 0.5788
Epoch 47/100
50/50 [=====] - 4s 88ms/step - loss: 0.5104 - val_loss: 0.5819
Epoch 48/100
50/50 [=====] - 4s 87ms/step - loss: 0.5108 - val_loss: 0.5843
Epoch 49/100
50/50 [=====] - 4s 88ms/step - loss: 0.5089 - val_loss: 0.5776
Epoch 50/100
50/50 [=====] - 4s 87ms/step - loss: 0.5100 - val_loss: 0.5858
Epoch 51/100
50/50 [=====] - 4s 88ms/step - loss: 0.5106 - val_loss: 0.5765
Epoch 52/100
50/50 [=====] - 4s 88ms/step - loss: 0.5093 - val_loss: 0.5856
Epoch 53/100
50/50 [=====] - 4s 88ms/step - loss: 0.5091 - val_loss: 0.5820
Epoch 54/100
50/50 [=====] - 4s 88ms/step - loss: 0.5096 - val_loss: 0.5854
Epoch 55/100
50/50 [=====] - 4s 88ms/step - loss: 0.5089 - val_loss: 0.5794
Epoch 56/100
50/50 [=====] - 4s 87ms/step - loss: 0.5097 - val_loss: 0.6005
Epoch 57/100
50/50 [=====] - 4s 87ms/step - loss: 0.5089 - val_loss: 0.5853
Epoch 58/100

50/50 [=====] - 4s 88ms/step - loss: 0.5085 - val_loss: 0.5787
Epoch 59/100
50/50 [=====] - 4s 87ms/step - loss: 0.5086 - val_loss: 0.5842
Epoch 60/100
50/50 [=====] - 4s 88ms/step - loss: 0.5083 - val_loss: 0.5809
Epoch 61/100
50/50 [=====] - 4s 88ms/step - loss: 0.5077 - val_loss: 0.5752
Epoch 62/100
50/50 [=====] - 4s 87ms/step - loss: 0.5078 - val_loss: 0.5787
Epoch 63/100
50/50 [=====] - 4s 87ms/step - loss: 0.5068 - val_loss: 0.5873
Epoch 64/100
50/50 [=====] - 4s 87ms/step - loss: 0.5074 - val_loss: 0.5721
Epoch 65/100
50/50 [=====] - 4s 87ms/step - loss: 0.5067 - val_loss: 0.5801
Epoch 66/100
50/50 [=====] - 4s 87ms/step - loss: 0.5058 - val_loss: 0.5817
Epoch 67/100
50/50 [=====] - 4s 88ms/step - loss: 0.5052 - val_loss: 0.5755
Epoch 68/100
50/50 [=====] - 4s 87ms/step - loss: 0.5227 - val_loss: 0.6049
Epoch 69/100
50/50 [=====] - 4s 87ms/step - loss: 0.5085 - val_loss: 0.5907
Epoch 70/100
50/50 [=====] - 4s 86ms/step - loss: 0.5058 - val_loss: 0.5880
Epoch 71/100
50/50 [=====] - 4s 86ms/step - loss: 0.5051 - val_loss: 0.5759
Epoch 72/100
50/50 [=====] - 4s 88ms/step - loss: 0.5035 - val_loss: 0.5697
Epoch 73/100
50/50 [=====] - 4s 87ms/step - loss: 0.5012 - val_loss: 0.5581
Epoch 74/100
50/50 [=====] - 4s 87ms/step - loss: 0.4963 - val_loss: 0.5758
Epoch 75/100
50/50 [=====] - 4s 87ms/step - loss: 0.4922 - val_loss: 0.5558
Epoch 76/100
50/50 [=====] - 4s 86ms/step - loss: 0.4864 - val_loss: 0.5667
Epoch 77/100
50/50 [=====] - 4s 87ms/step - loss: 0.4785 - val_loss: 0.5573
Epoch 78/100
50/50 [=====] - 4s 86ms/step - loss: 0.4745 - val_loss: 0.5412
Epoch 79/100
50/50 [=====] - 4s 87ms/step - loss: 0.4661 - val_loss: 0.5325
Epoch 80/100
50/50 [=====] - 4s 87ms/step - loss: 0.4577 - val_loss: 0.5170
Epoch 81/100
50/50 [=====] - 4s 87ms/step - loss: 0.4483 - val_loss: 0.5207
Epoch 82/100

50/50 [=====] - 4s 86ms/step - loss: 0.4375 - val_loss: 0.5036
Epoch 83/100
50/50 [=====] - 4s 87ms/step - loss: 0.4218 - val_loss: 0.4823
Epoch 84/100
50/50 [=====] - 4s 88ms/step - loss: 0.4011 - val_loss: 0.4823
Epoch 85/100
50/50 [=====] - 4s 89ms/step - loss: 0.3903 - val_loss: 0.4579
Epoch 86/100
50/50 [=====] - 4s 88ms/step - loss: 0.3817 - val_loss: 0.4583
Epoch 87/100
50/50 [=====] - 4s 87ms/step - loss: 0.3800 - val_loss: 0.4561
Epoch 88/100
50/50 [=====] - 4s 87ms/step - loss: 0.3759 - val_loss: 0.4529
Epoch 89/100
50/50 [=====] - 4s 87ms/step - loss: 0.3739 - val_loss: 0.4330
Epoch 90/100
50/50 [=====] - 4s 87ms/step - loss: 0.3726 - val_loss: 0.4393
Epoch 91/100
50/50 [=====] - 4s 87ms/step - loss: 0.3701 - val_loss: 0.4263
Epoch 92/100
50/50 [=====] - 4s 87ms/step - loss: 0.3697 - val_loss: 0.4275
Epoch 93/100
50/50 [=====] - 4s 88ms/step - loss: 0.3704 - val_loss: 0.4036
Epoch 94/100
50/50 [=====] - 4s 86ms/step - loss: 0.3660 - val_loss: 0.4203
Epoch 95/100
50/50 [=====] - 4s 87ms/step - loss: 0.3668 - val_loss: 0.4540
Epoch 96/100
50/50 [=====] - 4s 86ms/step - loss: 0.3663 - val_loss: 0.4221
Epoch 97/100
50/50 [=====] - 4s 86ms/step - loss: 0.3657 - val_loss: 0.4444
Epoch 98/100
50/50 [=====] - 4s 86ms/step - loss: 0.3647 - val_loss: 0.4309
Epoch 99/100
50/50 [=====] - 4s 86ms/step - loss: 0.3644 - val_loss: 0.4178
Epoch 100/100
50/50 [=====] - 4s 87ms/step - loss: 0.3638 - val_loss: 0.4208



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

CA_4 - Model Prediction: [2599.6458 2502.2292 2296.6233 2178.7869 2205.2637 2366.997 2539.5657

2613.8394 2510.1572 2299.409 2163.5425 2186.222 2359.772 2549.0625

2610.8103 2532.975 2311.6707 2179.1938 2214.7388 2407.3145]

CA_4 - Model Percentage Error: [6.72243445e+00 6.12354164e-01 9.99153693e+00 2.68928695e+00

2.42748128e+00 2.67281783e+00 9.49516487e+00 2.18115658e+01

5.02621163e+00 1.77875401e-02 7.34293446e+00 2.57478058e+00

1.88998155e+00 2.27790821e+01 4.26071497e+00 1.69425253e+01

4.74266671e+00 6.19053605e+00 7.06089931e+00 1.00741706e+01]%
CA_4 - Model Mean Percentage Error: 7.266246651028558%

=====
=====

Training Model for TX_1...

Epoch 1/100

50/50 [=====] - 5s 98ms/step - loss: 0.7561 - val_loss: 0.7659

Epoch 2/100

50/50 [=====] - 4s 85ms/step - loss: 0.7516 - val_loss: 0.7699

Epoch 3/100

50/50 [=====] - 4s 85ms/step - loss: 0.7454 - val_loss: 0.7702

Epoch 4/100

50/50 [=====] - 4s 86ms/step - loss: 0.7395 - val_loss: 0.7666

Epoch 5/100

50/50 [=====] - 4s 86ms/step - loss: 0.7301 - val_loss: 0.7600

Epoch 6/100

50/50 [=====] - 4s 85ms/step - loss: 0.7236 - val_loss: 0.7529

Epoch 7/100

50/50 [=====] - 4s 86ms/step - loss: 0.7167 - val_loss: 0.7467

Epoch 8/100

50/50 [=====] - 6s 112ms/step - loss: 0.7124 - val_loss: 0.7397

Epoch 9/100

50/50 [=====] - 5s 105ms/step - loss: 0.7076 - val_loss: 0.7347

Epoch 10/100

50/50 [=====] - 4s 89ms/step - loss: 0.7071 - val_loss: 0.7306

Epoch 11/100

50/50 [=====] - 4s 87ms/step - loss: 0.7048 - val_loss: 0.7275

Epoch 12/100

50/50 [=====] - 4s 86ms/step - loss: 0.7047 - val_loss: 0.7244

Epoch 13/100

50/50 [=====] - 4s 85ms/step - loss: 0.7041 - val_loss: 0.7228

Epoch 14/100

50/50 [=====] - 4s 85ms/step - loss: 0.7034 - val_loss: 0.7209

Epoch 15/100

50/50 [=====] - 4s 85ms/step - loss: 0.7031 - val_loss: 0.7185

Epoch 16/100

50/50 [=====] - 4s 86ms/step - loss: 0.7026 - val_loss: 0.7185

Epoch 17/100

50/50 [=====] - 4s 86ms/step - loss: 0.7019 - val_loss: 0.7167

Epoch 18/100

50/50 [=====] - 4s 87ms/step - loss: 0.7026 - val_loss: 0.7158

Epoch 19/100

50/50 [=====] - 4s 87ms/step - loss: 0.7022 - val_loss: 0.7158

Epoch 20/100

50/50 [=====] - 4s 90ms/step - loss: 0.7015 - val_loss: 0.7139

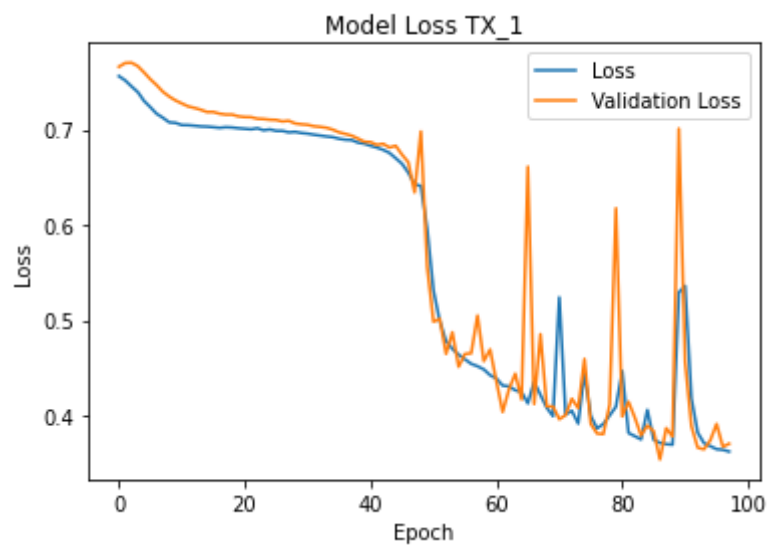
Epoch 21/100

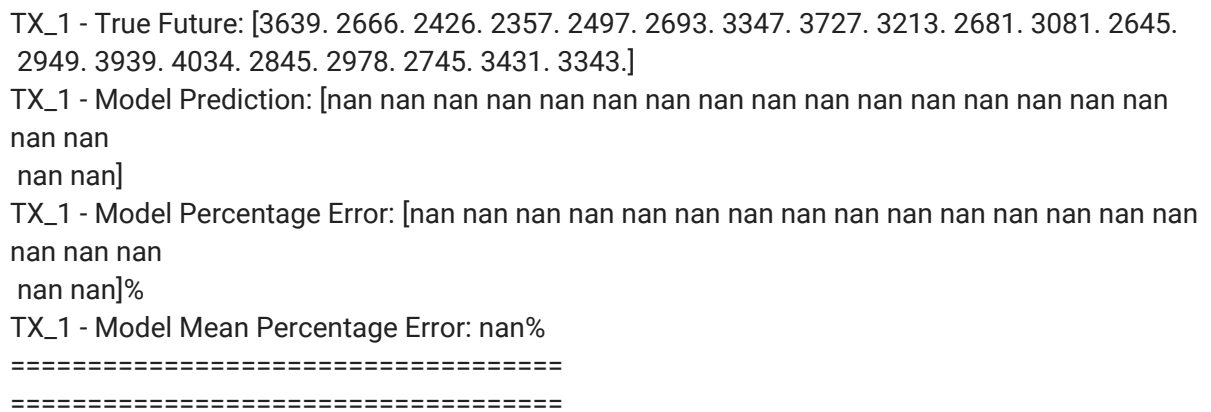
50/50 [=====] - 4s 89ms/step - loss: 0.7009 - val_loss: 0.7132
Epoch 22/100
50/50 [=====] - 4s 88ms/step - loss: 0.7004 - val_loss: 0.7131
Epoch 23/100
50/50 [=====] - 4s 85ms/step - loss: 0.7014 - val_loss: 0.7115
Epoch 24/100
50/50 [=====] - 4s 87ms/step - loss: 0.6994 - val_loss: 0.7111
Epoch 25/100
50/50 [=====] - 4s 88ms/step - loss: 0.7002 - val_loss: 0.7104
Epoch 26/100
50/50 [=====] - 4s 85ms/step - loss: 0.6987 - val_loss: 0.7102
Epoch 27/100
50/50 [=====] - 4s 86ms/step - loss: 0.6987 - val_loss: 0.7086
Epoch 28/100
50/50 [=====] - 4s 86ms/step - loss: 0.6972 - val_loss: 0.7093
Epoch 29/100
50/50 [=====] - 4s 86ms/step - loss: 0.6977 - val_loss: 0.7065
Epoch 30/100
50/50 [=====] - 4s 87ms/step - loss: 0.6965 - val_loss: 0.7056
Epoch 31/100
50/50 [=====] - 4s 86ms/step - loss: 0.6958 - val_loss: 0.7051
Epoch 32/100
50/50 [=====] - 4s 86ms/step - loss: 0.6947 - val_loss: 0.7036
Epoch 33/100
50/50 [=====] - 4s 87ms/step - loss: 0.6938 - val_loss: 0.7029
Epoch 34/100
50/50 [=====] - 4s 87ms/step - loss: 0.6928 - val_loss: 0.7020
Epoch 35/100
50/50 [=====] - 4s 87ms/step - loss: 0.6921 - val_loss: 0.7000
Epoch 36/100
50/50 [=====] - 4s 86ms/step - loss: 0.6904 - val_loss: 0.6972
Epoch 37/100
50/50 [=====] - 4s 87ms/step - loss: 0.6894 - val_loss: 0.6955
Epoch 38/100
50/50 [=====] - 4s 88ms/step - loss: 0.6891 - val_loss: 0.6937
Epoch 39/100
50/50 [=====] - 4s 87ms/step - loss: 0.6864 - val_loss: 0.6906
Epoch 40/100
50/50 [=====] - 4s 86ms/step - loss: 0.6852 - val_loss: 0.6873
Epoch 41/100
50/50 [=====] - 4s 86ms/step - loss: 0.6831 - val_loss: 0.6869
Epoch 42/100
50/50 [=====] - 4s 86ms/step - loss: 0.6812 - val_loss: 0.6840
Epoch 43/100
50/50 [=====] - 4s 86ms/step - loss: 0.6788 - val_loss: 0.6851
Epoch 44/100
50/50 [=====] - 4s 87ms/step - loss: 0.6756 - val_loss: 0.6812
Epoch 45/100

50/50 [=====] - 4s 86ms/step - loss: 0.6700 - val_loss: 0.6830
Epoch 46/100
50/50 [=====] - 4s 86ms/step - loss: 0.6642 - val_loss: 0.6738
Epoch 47/100
50/50 [=====] - 4s 86ms/step - loss: 0.6549 - val_loss: 0.6658
Epoch 48/100
50/50 [=====] - 4s 85ms/step - loss: 0.6428 - val_loss: 0.6341
Epoch 49/100
50/50 [=====] - 4s 86ms/step - loss: 0.6409 - val_loss: 0.6981
Epoch 50/100
50/50 [=====] - 4s 86ms/step - loss: 0.5962 - val_loss: 0.5562
Epoch 51/100
50/50 [=====] - 4s 86ms/step - loss: 0.5313 - val_loss: 0.4985
Epoch 52/100
50/50 [=====] - 4s 86ms/step - loss: 0.4992 - val_loss: 0.5016
Epoch 53/100
50/50 [=====] - 4s 87ms/step - loss: 0.4781 - val_loss: 0.4648
Epoch 54/100
50/50 [=====] - 4s 88ms/step - loss: 0.4701 - val_loss: 0.4874
Epoch 55/100
50/50 [=====] - 4s 86ms/step - loss: 0.4639 - val_loss: 0.4513
Epoch 56/100
50/50 [=====] - 4s 86ms/step - loss: 0.4591 - val_loss: 0.4647
Epoch 57/100
50/50 [=====] - 4s 85ms/step - loss: 0.4544 - val_loss: 0.4655
Epoch 58/100
50/50 [=====] - 4s 87ms/step - loss: 0.4518 - val_loss: 0.5050
Epoch 59/100
50/50 [=====] - 4s 85ms/step - loss: 0.4485 - val_loss: 0.4572
Epoch 60/100
50/50 [=====] - 4s 85ms/step - loss: 0.4425 - val_loss: 0.4694
Epoch 61/100
50/50 [=====] - 4s 86ms/step - loss: 0.4390 - val_loss: 0.4359
Epoch 62/100
50/50 [=====] - 4s 85ms/step - loss: 0.4316 - val_loss: 0.4039
Epoch 63/100
50/50 [=====] - 4s 86ms/step - loss: 0.4308 - val_loss: 0.4276
Epoch 64/100
50/50 [=====] - 4s 85ms/step - loss: 0.4266 - val_loss: 0.4440
Epoch 65/100
50/50 [=====] - 4s 85ms/step - loss: 0.4249 - val_loss: 0.4169
Epoch 66/100
50/50 [=====] - 4s 86ms/step - loss: 0.4129 - val_loss: 0.6612
Epoch 67/100
50/50 [=====] - 4s 86ms/step - loss: 0.4356 - val_loss: 0.4122
Epoch 68/100
50/50 [=====] - 4s 86ms/step - loss: 0.4218 - val_loss: 0.4855
Epoch 69/100

50/50 [=====] - 4s 85ms/step - loss: 0.4083 - val_loss: 0.4097
Epoch 70/100
50/50 [=====] - 4s 85ms/step - loss: 0.3995 - val_loss: 0.4097
Epoch 71/100
50/50 [=====] - 4s 86ms/step - loss: 0.5241 - val_loss: 0.3962
Epoch 72/100
50/50 [=====] - 4s 86ms/step - loss: 0.4012 - val_loss: 0.4006
Epoch 73/100
50/50 [=====] - 4s 86ms/step - loss: 0.4050 - val_loss: 0.4177
Epoch 74/100
50/50 [=====] - 4s 85ms/step - loss: 0.3917 - val_loss: 0.4080
Epoch 75/100
50/50 [=====] - 4s 86ms/step - loss: 0.4449 - val_loss: 0.4594
Epoch 76/100
50/50 [=====] - 4s 86ms/step - loss: 0.3998 - val_loss: 0.3914
Epoch 77/100
50/50 [=====] - 4s 85ms/step - loss: 0.3866 - val_loss: 0.3813
Epoch 78/100
50/50 [=====] - 4s 85ms/step - loss: 0.3912 - val_loss: 0.3807
Epoch 79/100
50/50 [=====] - 4s 88ms/step - loss: 0.4002 - val_loss: 0.4114
Epoch 80/100
50/50 [=====] - 4s 89ms/step - loss: 0.4094 - val_loss: 0.6176
Epoch 81/100
50/50 [=====] - 4s 86ms/step - loss: 0.4468 - val_loss: 0.3992
Epoch 82/100
50/50 [=====] - 4s 86ms/step - loss: 0.3818 - val_loss: 0.4145
Epoch 83/100
50/50 [=====] - 4s 85ms/step - loss: 0.3785 - val_loss: 0.3981
Epoch 84/100
50/50 [=====] - 4s 86ms/step - loss: 0.3751 - val_loss: 0.3792
Epoch 85/100
50/50 [=====] - 4s 86ms/step - loss: 0.4060 - val_loss: 0.3896
Epoch 86/100
50/50 [=====] - 4s 86ms/step - loss: 0.3747 - val_loss: 0.3836
Epoch 87/100
50/50 [=====] - 4s 86ms/step - loss: 0.3715 - val_loss: 0.3540
Epoch 88/100
50/50 [=====] - 4s 85ms/step - loss: 0.3701 - val_loss: 0.3869
Epoch 89/100
50/50 [=====] - 4s 86ms/step - loss: 0.3695 - val_loss: 0.3781
Epoch 90/100
50/50 [=====] - 4s 86ms/step - loss: 0.5293 - val_loss: 0.7011
Epoch 91/100
50/50 [=====] - 4s 85ms/step - loss: 0.5360 - val_loss: 0.4563
Epoch 92/100
50/50 [=====] - 4s 86ms/step - loss: 0.4181 - val_loss: 0.3890
Epoch 93/100

50/50 [=====] - 4s 86ms/step - loss: 0.3822 - val_loss: 0.3664
Epoch 94/100
50/50 [=====] - 4s 87ms/step - loss: 0.3712 - val_loss: 0.3647
Epoch 95/100
50/50 [=====] - 4s 86ms/step - loss: 0.3681 - val_loss: 0.3740
Epoch 96/100
50/50 [=====] - 4s 86ms/step - loss: 0.3648 - val_loss: 0.3913
Epoch 97/100
50/50 [=====] - 4s 85ms/step - loss: 0.3642 - val_loss: 0.3673
Epoch 98/100
50/50 [=====] - 4s 86ms/step - loss: 0.3623 - val_loss: 0.3706
Epoch 99/100
50/50 [=====] - 4s 88ms/step - loss: nan - val_loss: nan
Epoch 100/100
50/50 [=====] - 4s 86ms/step - loss: nan - val_loss: nan





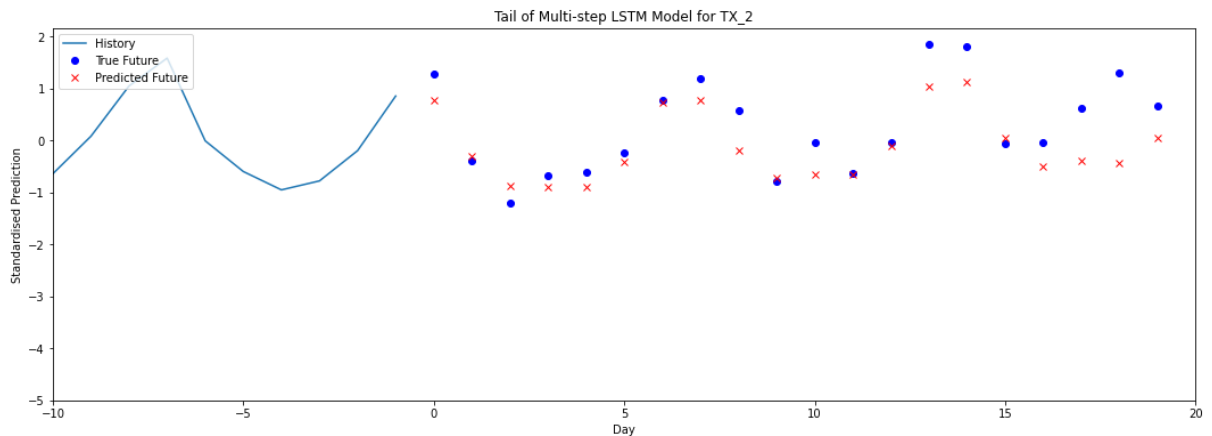
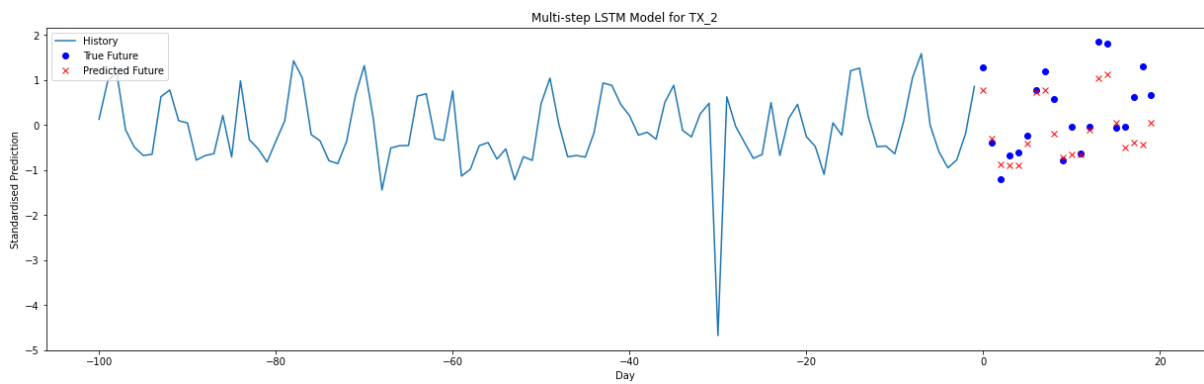
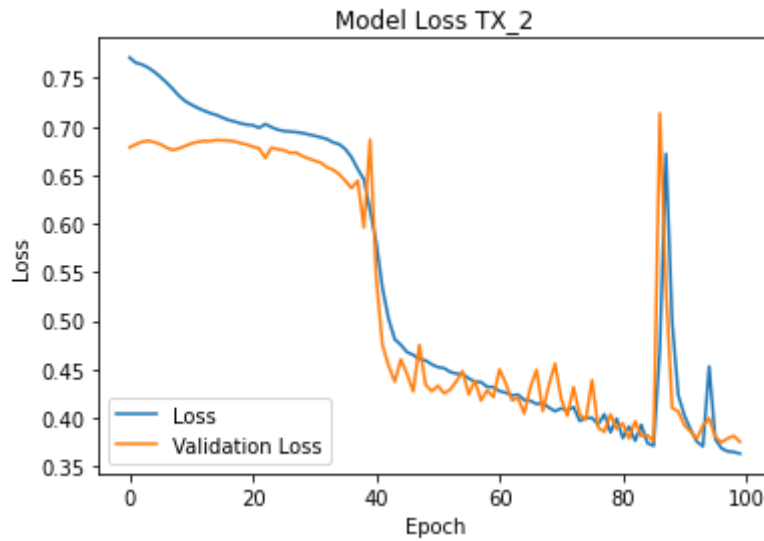
```
Epoch 1/100
50/50 [=====] - 5s 93ms/step - loss: 0.7711 - val_loss: 0.6787
Epoch 2/100
50/50 [=====] - 4s 86ms/step - loss: 0.7658 - val_loss: 0.6818
Epoch 3/100
50/50 [=====] - 4s 85ms/step - loss: 0.7640 - val_loss: 0.6844
Epoch 4/100
50/50 [=====] - 4s 86ms/step - loss: 0.7608 - val_loss: 0.6855
Epoch 5/100
50/50 [=====] - 4s 86ms/step - loss: 0.7565 - val_loss: 0.6840
Epoch 6/100
50/50 [=====] - 4s 85ms/step - loss: 0.7511 - val_loss: 0.6819
Epoch 7/100
50/50 [=====] - 4s 86ms/step - loss: 0.7453 - val_loss: 0.6783
Epoch 8/100
50/50 [=====] - 4s 86ms/step - loss: 0.7388 - val_loss: 0.6759
Epoch 9/100
50/50 [=====] - 4s 85ms/step - loss: 0.7318 - val_loss: 0.6777
Epoch 10/100
50/50 [=====] - 4s 85ms/step - loss: 0.7264 - val_loss: 0.6801
Epoch 11/100
50/50 [=====] - 4s 85ms/step - loss: 0.7227 - val_loss: 0.6826
```

Epoch 12/100
50/50 [=====] - 4s 86ms/step - loss: 0.7194 - val_loss: 0.6842
Epoch 13/100
50/50 [=====] - 4s 85ms/step - loss: 0.7166 - val_loss: 0.6853
Epoch 14/100
50/50 [=====] - 4s 85ms/step - loss: 0.7140 - val_loss: 0.6851
Epoch 15/100
50/50 [=====] - 4s 85ms/step - loss: 0.7122 - val_loss: 0.6862
Epoch 16/100
50/50 [=====] - 4s 86ms/step - loss: 0.7095 - val_loss: 0.6859
Epoch 17/100
50/50 [=====] - 4s 85ms/step - loss: 0.7069 - val_loss: 0.6857
Epoch 18/100
50/50 [=====] - 4s 85ms/step - loss: 0.7053 - val_loss: 0.6847
Epoch 19/100
50/50 [=====] - 4s 86ms/step - loss: 0.7034 - val_loss: 0.6829
Epoch 20/100
50/50 [=====] - 4s 87ms/step - loss: 0.7021 - val_loss: 0.6816
Epoch 21/100
50/50 [=====] - 4s 87ms/step - loss: 0.7014 - val_loss: 0.6793
Epoch 22/100
50/50 [=====] - 4s 86ms/step - loss: 0.6988 - val_loss: 0.6776
Epoch 23/100
50/50 [=====] - 4s 87ms/step - loss: 0.7027 - val_loss: 0.6677
Epoch 24/100
50/50 [=====] - 4s 88ms/step - loss: 0.6995 - val_loss: 0.6783
Epoch 25/100
50/50 [=====] - 4s 88ms/step - loss: 0.6969 - val_loss: 0.6767
Epoch 26/100
50/50 [=====] - 4s 86ms/step - loss: 0.6955 - val_loss: 0.6758
Epoch 27/100
50/50 [=====] - 4s 86ms/step - loss: 0.6949 - val_loss: 0.6730
Epoch 28/100
50/50 [=====] - 4s 86ms/step - loss: 0.6944 - val_loss: 0.6733
Epoch 29/100
50/50 [=====] - 4s 87ms/step - loss: 0.6934 - val_loss: 0.6697
Epoch 30/100
50/50 [=====] - 4s 86ms/step - loss: 0.6920 - val_loss: 0.6672
Epoch 31/100
50/50 [=====] - 4s 86ms/step - loss: 0.6906 - val_loss: 0.6650
Epoch 32/100
50/50 [=====] - 4s 86ms/step - loss: 0.6890 - val_loss: 0.6630
Epoch 33/100
50/50 [=====] - 4s 86ms/step - loss: 0.6872 - val_loss: 0.6582
Epoch 34/100
50/50 [=====] - 4s 87ms/step - loss: 0.6838 - val_loss: 0.6556
Epoch 35/100
50/50 [=====] - 4s 86ms/step - loss: 0.6819 - val_loss: 0.6510

Epoch 36/100
50/50 [=====] - 4s 87ms/step - loss: 0.6768 - val_loss: 0.6441
Epoch 37/100
50/50 [=====] - 4s 86ms/step - loss: 0.6685 - val_loss: 0.6367
Epoch 38/100
50/50 [=====] - 4s 86ms/step - loss: 0.6564 - val_loss: 0.6443
Epoch 39/100
50/50 [=====] - 4s 86ms/step - loss: 0.6456 - val_loss: 0.5962
Epoch 40/100
50/50 [=====] - 4s 86ms/step - loss: 0.6136 - val_loss: 0.6868
Epoch 41/100
50/50 [=====] - 4s 86ms/step - loss: 0.5809 - val_loss: 0.5444
Epoch 42/100
50/50 [=====] - 4s 87ms/step - loss: 0.5341 - val_loss: 0.4756
Epoch 43/100
50/50 [=====] - 4s 86ms/step - loss: 0.5021 - val_loss: 0.4537
Epoch 44/100
50/50 [=====] - 4s 86ms/step - loss: 0.4810 - val_loss: 0.4374
Epoch 45/100
50/50 [=====] - 5s 98ms/step - loss: 0.4752 - val_loss: 0.4603
Epoch 46/100
50/50 [=====] - 6s 125ms/step - loss: 0.4678 - val_loss: 0.4451
Epoch 47/100
50/50 [=====] - 4s 87ms/step - loss: 0.4648 - val_loss: 0.4274
Epoch 48/100
50/50 [=====] - 4s 88ms/step - loss: 0.4607 - val_loss: 0.4752
Epoch 49/100
50/50 [=====] - 4s 86ms/step - loss: 0.4592 - val_loss: 0.4342
Epoch 50/100
50/50 [=====] - 4s 86ms/step - loss: 0.4552 - val_loss: 0.4275
Epoch 51/100
50/50 [=====] - 4s 86ms/step - loss: 0.4523 - val_loss: 0.4332
Epoch 52/100
50/50 [=====] - 4s 87ms/step - loss: 0.4513 - val_loss: 0.4252
Epoch 53/100
50/50 [=====] - 4s 87ms/step - loss: 0.4473 - val_loss: 0.4292
Epoch 54/100
50/50 [=====] - 4s 87ms/step - loss: 0.4455 - val_loss: 0.4377
Epoch 55/100
50/50 [=====] - 4s 87ms/step - loss: 0.4452 - val_loss: 0.4481
Epoch 56/100
50/50 [=====] - 4s 87ms/step - loss: 0.4407 - val_loss: 0.4243
Epoch 57/100
50/50 [=====] - 4s 88ms/step - loss: 0.4374 - val_loss: 0.4384
Epoch 58/100
50/50 [=====] - 4s 86ms/step - loss: 0.4369 - val_loss: 0.4180
Epoch 59/100
50/50 [=====] - 4s 88ms/step - loss: 0.4320 - val_loss: 0.4286

Epoch 60/100
50/50 [=====] - 4s 87ms/step - loss: 0.4318 - val_loss: 0.4215
Epoch 61/100
50/50 [=====] - 4s 88ms/step - loss: 0.4276 - val_loss: 0.4501
Epoch 62/100
50/50 [=====] - 4s 88ms/step - loss: 0.4260 - val_loss: 0.4357
Epoch 63/100
50/50 [=====] - 4s 87ms/step - loss: 0.4232 - val_loss: 0.4182
Epoch 64/100
50/50 [=====] - 4s 87ms/step - loss: 0.4240 - val_loss: 0.4204
Epoch 65/100
50/50 [=====] - 4s 87ms/step - loss: 0.4184 - val_loss: 0.4047
Epoch 66/100
50/50 [=====] - 4s 86ms/step - loss: 0.4177 - val_loss: 0.4314
Epoch 67/100
50/50 [=====] - 4s 86ms/step - loss: 0.4144 - val_loss: 0.4496
Epoch 68/100
50/50 [=====] - 4s 86ms/step - loss: 0.4152 - val_loss: 0.4070
Epoch 69/100
50/50 [=====] - 4s 86ms/step - loss: 0.4107 - val_loss: 0.4336
Epoch 70/100
50/50 [=====] - 4s 86ms/step - loss: 0.4069 - val_loss: 0.4560
Epoch 71/100
50/50 [=====] - 4s 86ms/step - loss: 0.4099 - val_loss: 0.4196
Epoch 72/100
50/50 [=====] - 4s 86ms/step - loss: 0.4076 - val_loss: 0.4023
Epoch 73/100
50/50 [=====] - 4s 86ms/step - loss: 0.4112 - val_loss: 0.4316
Epoch 74/100
50/50 [=====] - 4s 87ms/step - loss: 0.3969 - val_loss: 0.4033
Epoch 75/100
50/50 [=====] - 4s 86ms/step - loss: 0.3997 - val_loss: 0.3983
Epoch 76/100
50/50 [=====] - 4s 86ms/step - loss: 0.4001 - val_loss: 0.4389
Epoch 77/100
50/50 [=====] - 4s 87ms/step - loss: 0.3933 - val_loss: 0.3901
Epoch 78/100
50/50 [=====] - 4s 86ms/step - loss: 0.4038 - val_loss: 0.3857
Epoch 79/100
50/50 [=====] - 4s 87ms/step - loss: 0.3852 - val_loss: 0.4036
Epoch 80/100
50/50 [=====] - 4s 86ms/step - loss: 0.3992 - val_loss: 0.3889
Epoch 81/100
50/50 [=====] - 4s 86ms/step - loss: 0.3793 - val_loss: 0.3945
Epoch 82/100
50/50 [=====] - 4s 86ms/step - loss: 0.3912 - val_loss: 0.3788
Epoch 83/100
50/50 [=====] - 4s 86ms/step - loss: 0.3764 - val_loss: 0.3965

Epoch 84/100
50/50 [=====] - 4s 86ms/step - loss: 0.3929 - val_loss: 0.3813
Epoch 85/100
50/50 [=====] - 4s 86ms/step - loss: 0.3740 - val_loss: 0.3823
Epoch 86/100
50/50 [=====] - 4s 87ms/step - loss: 0.3713 - val_loss: 0.3761
Epoch 87/100
50/50 [=====] - 4s 86ms/step - loss: 0.4701 - val_loss: 0.7139
Epoch 88/100
50/50 [=====] - 4s 86ms/step - loss: 0.6720 - val_loss: 0.5347
Epoch 89/100
50/50 [=====] - 4s 88ms/step - loss: 0.4990 - val_loss: 0.4103
Epoch 90/100
50/50 [=====] - 4s 85ms/step - loss: 0.4234 - val_loss: 0.4065
Epoch 91/100
50/50 [=====] - 4s 85ms/step - loss: 0.4023 - val_loss: 0.3925
Epoch 92/100
50/50 [=====] - 4s 86ms/step - loss: 0.3880 - val_loss: 0.3860
Epoch 93/100
50/50 [=====] - 4s 87ms/step - loss: 0.3756 - val_loss: 0.3785
Epoch 94/100
50/50 [=====] - 4s 89ms/step - loss: 0.3707 - val_loss: 0.3919
Epoch 95/100
50/50 [=====] - 4s 88ms/step - loss: 0.4530 - val_loss: 0.4000
Epoch 96/100
50/50 [=====] - 4s 86ms/step - loss: 0.3782 - val_loss: 0.3805
Epoch 97/100
50/50 [=====] - 4s 85ms/step - loss: 0.3687 - val_loss: 0.3749
Epoch 98/100
50/50 [=====] - 4s 85ms/step - loss: 0.3656 - val_loss: 0.3788
Epoch 99/100
50/50 [=====] - 4s 86ms/step - loss: 0.3649 - val_loss: 0.3815
Epoch 100/100
50/50 [=====] - 4s 86ms/step - loss: 0.3632 - val_loss: 0.3754



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

TX_2 - Model Prediction: [4374.281 3516.495 3049.4429 3041.1938 3045.3022 3427.0042 4340.8164

4384.3467 3603.1638 3186.0603 3227.3892 3233.752 3667.9023 4599.627 4658.2397 3803.8196 3354.593 3446.5024 3418.0854 3792.276]

TX_2 - Model Percentage Error: [8.75509467 2.19398771 8.98652148 5.43551469 6.70029883 3.7898891

0.98502723 6.95359339 14.71801613 2.08459797 13.28884578 0.34662702

1.84901408 12.22085967 10.59040794 2.41840549 10.23299391 19.07719086

28.77504794 11.70486894]%

TX_2 - Model Mean Percentage Error: 8.555340142327347%

=====
=====

Training Model for TX_3...

Epoch 1/100

50/50 [=====] - 5s 95ms/step - loss: 0.7567 - val_loss: 1.0783

Epoch 2/100

50/50 [=====] - 4s 86ms/step - loss: 0.7498 - val_loss: 1.0491

Epoch 3/100

50/50 [=====] - 4s 86ms/step - loss: 0.7398 - val_loss: 0.9929

Epoch 4/100

50/50 [=====] - 4s 86ms/step - loss: 0.7171 - val_loss: 0.8825

Epoch 5/100

50/50 [=====] - 4s 86ms/step - loss: 0.7060 - val_loss: 0.7783

Epoch 6/100

50/50 [=====] - 4s 86ms/step - loss: 0.6779 - val_loss: 0.6979

Epoch 7/100

50/50 [=====] - 4s 86ms/step - loss: 0.6603 - val_loss: 0.6701

Epoch 8/100

50/50 [=====] - 4s 86ms/step - loss: 0.6489 - val_loss: 0.6564

Epoch 9/100

50/50 [=====] - 4s 86ms/step - loss: 0.6411 - val_loss: 0.6598

Epoch 10/100

50/50 [=====] - 4s 86ms/step - loss: 0.6385 - val_loss: 0.6570

Epoch 11/100

50/50 [=====] - 4s 87ms/step - loss: 0.6361 - val_loss: 0.6493

Epoch 12/100

50/50 [=====] - 4s 87ms/step - loss: 0.6359 - val_loss: 0.6512

Epoch 13/100

50/50 [=====] - 4s 87ms/step - loss: 0.6352 - val_loss: 0.6511

Epoch 14/100

50/50 [=====] - 4s 87ms/step - loss: 0.6345 - val_loss: 0.6479

Epoch 15/100

50/50 [=====] - 4s 87ms/step - loss: 0.6345 - val_loss: 0.6489

Epoch 16/100

50/50 [=====] - 4s 89ms/step - loss: 0.6344 - val_loss: 0.6454

Epoch 17/100

50/50 [=====] - 4s 88ms/step - loss: 0.6335 - val_loss: 0.6486

Epoch 18/100

50/50 [=====] - 4s 87ms/step - loss: 0.6336 - val_loss: 0.6497

Epoch 19/100

50/50 [=====] - 4s 87ms/step - loss: 0.6329 - val_loss: 0.6520

Epoch 20/100

50/50 [=====] - 4s 86ms/step - loss: 0.6332 - val_loss: 0.6467

Epoch 21/100

50/50 [=====] - 4s 87ms/step - loss: 0.6331 - val_loss: 0.6553

Epoch 22/100
50/50 [=====] - 4s 87ms/step - loss: 0.6323 - val_loss: 0.6481
Epoch 23/100
50/50 [=====] - 4s 87ms/step - loss: 0.6323 - val_loss: 0.6497
Epoch 24/100
50/50 [=====] - 4s 87ms/step - loss: 0.6323 - val_loss: 0.6448
Epoch 25/100
50/50 [=====] - 4s 87ms/step - loss: 0.6310 - val_loss: 0.6541
Epoch 26/100
50/50 [=====] - 4s 88ms/step - loss: 0.6312 - val_loss: 0.6472
Epoch 27/100
50/50 [=====] - 4s 89ms/step - loss: 0.6306 - val_loss: 0.6430
Epoch 28/100
50/50 [=====] - 4s 89ms/step - loss: 0.6311 - val_loss: 0.6434
Epoch 29/100
50/50 [=====] - 4s 88ms/step - loss: 0.6295 - val_loss: 0.6431
Epoch 30/100
50/50 [=====] - 4s 88ms/step - loss: 0.6293 - val_loss: 0.6450
Epoch 31/100
50/50 [=====] - 4s 89ms/step - loss: 0.6297 - val_loss: 0.6439
Epoch 32/100
50/50 [=====] - 4s 88ms/step - loss: 0.6289 - val_loss: 0.6484
Epoch 33/100
50/50 [=====] - 4s 88ms/step - loss: 0.6281 - val_loss: 0.6454
Epoch 34/100
50/50 [=====] - 4s 87ms/step - loss: 0.6279 - val_loss: 0.6449
Epoch 35/100
50/50 [=====] - 4s 87ms/step - loss: 0.6274 - val_loss: 0.6437
Epoch 36/100
50/50 [=====] - 4s 87ms/step - loss: 0.6262 - val_loss: 0.6412
Epoch 37/100
50/50 [=====] - 4s 87ms/step - loss: 0.6255 - val_loss: 0.6428
Epoch 38/100
50/50 [=====] - 4s 87ms/step - loss: 0.6248 - val_loss: 0.6404
Epoch 39/100
50/50 [=====] - 4s 87ms/step - loss: 0.6242 - val_loss: 0.6434
Epoch 40/100
50/50 [=====] - 4s 87ms/step - loss: 0.6228 - val_loss: 0.6417
Epoch 41/100
50/50 [=====] - 4s 87ms/step - loss: 0.6212 - val_loss: 0.6355
Epoch 42/100
50/50 [=====] - 4s 88ms/step - loss: 0.6201 - val_loss: 0.6403
Epoch 43/100
50/50 [=====] - 4s 88ms/step - loss: 0.6171 - val_loss: 0.6437
Epoch 44/100
50/50 [=====] - 4s 87ms/step - loss: 0.6141 - val_loss: 0.6630
Epoch 45/100
50/50 [=====] - 4s 87ms/step - loss: 0.6102 - val_loss: 0.6513

Epoch 46/100
50/50 [=====] - 4s 87ms/step - loss: 0.6017 - val_loss: 0.6216
Epoch 47/100
50/50 [=====] - 4s 88ms/step - loss: 0.5846 - val_loss: 0.6243
Epoch 48/100
50/50 [=====] - 4s 87ms/step - loss: 0.5471 - val_loss: 0.5823
Epoch 49/100
50/50 [=====] - 4s 87ms/step - loss: 0.5089 - val_loss: 0.5184
Epoch 50/100
50/50 [=====] - 4s 88ms/step - loss: 0.4806 - val_loss: 0.5503
Epoch 51/100
50/50 [=====] - 4s 87ms/step - loss: 0.4628 - val_loss: 0.5200
Epoch 52/100
50/50 [=====] - 4s 88ms/step - loss: 0.4509 - val_loss: 0.4859
Epoch 53/100
50/50 [=====] - 4s 87ms/step - loss: 0.4443 - val_loss: 0.5163
Epoch 54/100
50/50 [=====] - 4s 88ms/step - loss: 0.4400 - val_loss: 0.5101
Epoch 55/100
50/50 [=====] - 4s 87ms/step - loss: 0.4357 - val_loss: 0.4760
Epoch 56/100
50/50 [=====] - 4s 88ms/step - loss: 0.4340 - val_loss: 0.4728
Epoch 57/100
50/50 [=====] - 4s 88ms/step - loss: 0.4311 - val_loss: 0.4804
Epoch 58/100
50/50 [=====] - 4s 87ms/step - loss: 0.4283 - val_loss: 0.4542
Epoch 59/100
50/50 [=====] - 4s 88ms/step - loss: 0.4240 - val_loss: 0.4766
Epoch 60/100
50/50 [=====] - 4s 87ms/step - loss: 0.4224 - val_loss: 0.4471
Epoch 61/100
50/50 [=====] - 4s 88ms/step - loss: 0.4159 - val_loss: 0.4458
Epoch 62/100
50/50 [=====] - 4s 89ms/step - loss: 0.4162 - val_loss: 0.4325
Epoch 63/100
50/50 [=====] - 4s 90ms/step - loss: 0.4131 - val_loss: 0.4311
Epoch 64/100
50/50 [=====] - 4s 89ms/step - loss: 0.4131 - val_loss: 0.4283
Epoch 65/100
50/50 [=====] - 4s 87ms/step - loss: 0.4074 - val_loss: 0.4288
Epoch 66/100
50/50 [=====] - 4s 88ms/step - loss: 0.4075 - val_loss: 0.4318
Epoch 67/100
50/50 [=====] - 4s 87ms/step - loss: 0.4043 - val_loss: 0.4299
Epoch 68/100
50/50 [=====] - 4s 87ms/step - loss: 0.4029 - val_loss: 0.4248
Epoch 69/100
50/50 [=====] - 4s 88ms/step - loss: 0.4024 - val_loss: 0.4294

Epoch 70/100
50/50 [=====] - 4s 88ms/step - loss: 0.4012 - val_loss: 0.4279
Epoch 71/100
50/50 [=====] - 4s 87ms/step - loss: 0.3995 - val_loss: 0.4358
Epoch 72/100
50/50 [=====] - 4s 87ms/step - loss: 0.3985 - val_loss: 0.4313
Epoch 73/100
50/50 [=====] - 4s 87ms/step - loss: 0.3970 - val_loss: 0.4257
Epoch 74/100
50/50 [=====] - 4s 86ms/step - loss: 0.3963 - val_loss: 0.4335
Epoch 75/100
50/50 [=====] - 4s 87ms/step - loss: 0.3945 - val_loss: 0.4259
Epoch 76/100
50/50 [=====] - 4s 87ms/step - loss: 0.3946 - val_loss: 0.4207
Epoch 77/100
50/50 [=====] - 4s 87ms/step - loss: 0.3931 - val_loss: 0.4400
Epoch 78/100
50/50 [=====] - 4s 87ms/step - loss: 0.3905 - val_loss: 0.4210
Epoch 79/100
50/50 [=====] - 4s 87ms/step - loss: 0.3908 - val_loss: 0.4140
Epoch 80/100
50/50 [=====] - 4s 87ms/step - loss: 0.3897 - val_loss: 0.4158
Epoch 81/100
50/50 [=====] - 5s 104ms/step - loss: 0.3884 - val_loss: 0.4174
Epoch 82/100
50/50 [=====] - 6s 115ms/step - loss: 0.3882 - val_loss: 0.4350
Epoch 83/100
50/50 [=====] - 4s 87ms/step - loss: 0.3858 - val_loss: 0.4180
Epoch 84/100
50/50 [=====] - 4s 89ms/step - loss: 0.3821 - val_loss: 0.4161
Epoch 85/100
50/50 [=====] - 4s 89ms/step - loss: 0.3817 - val_loss: 0.4364
Epoch 86/100
50/50 [=====] - 4s 88ms/step - loss: 0.3851 - val_loss: 0.4016
Epoch 87/100
50/50 [=====] - 4s 87ms/step - loss: 0.3805 - val_loss: 0.4129
Epoch 88/100
50/50 [=====] - 4s 87ms/step - loss: 0.3792 - val_loss: 0.4047
Epoch 89/100
50/50 [=====] - 4s 86ms/step - loss: 0.3787 - val_loss: 0.4170
Epoch 90/100
50/50 [=====] - 4s 87ms/step - loss: 0.3780 - val_loss: 0.4167
Epoch 91/100
50/50 [=====] - 4s 86ms/step - loss: 0.3783 - val_loss: 0.4159
Epoch 92/100
50/50 [=====] - 4s 86ms/step - loss: 0.3749 - val_loss: 0.4361
Epoch 93/100
50/50 [=====] - 4s 87ms/step - loss: 0.3752 - val_loss: 0.3909

Epoch 94/100

50/50 [=====] - 4s 86ms/step - loss: 0.3741 - val_loss: 0.3978

Epoch 95/100

50/50 [=====] - 4s 87ms/step - loss: 0.3734 - val_loss: 0.4083

Epoch 96/100

50/50 [=====] - 4s 88ms/step - loss: 0.3714 - val_loss: 0.3958

Epoch 97/100

50/50 [=====] - 4s 87ms/step - loss: 0.3702 - val_loss: 0.3967

Epoch 98/100

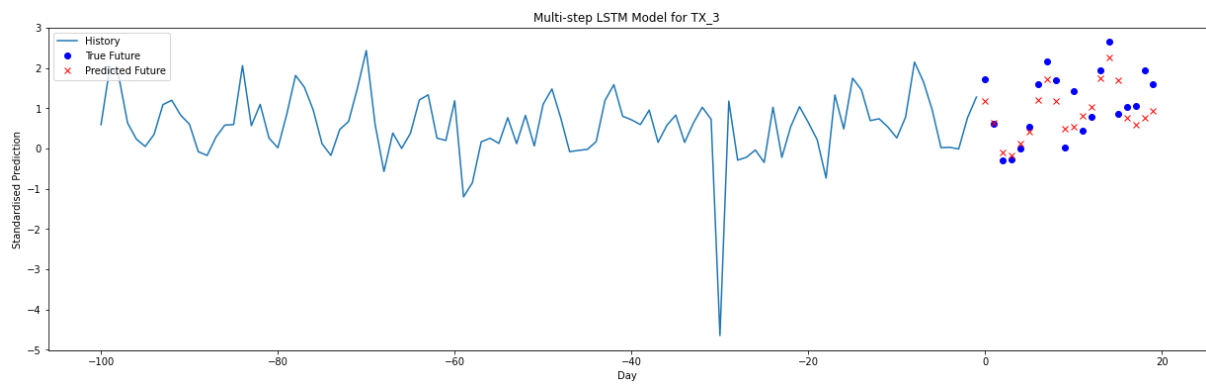
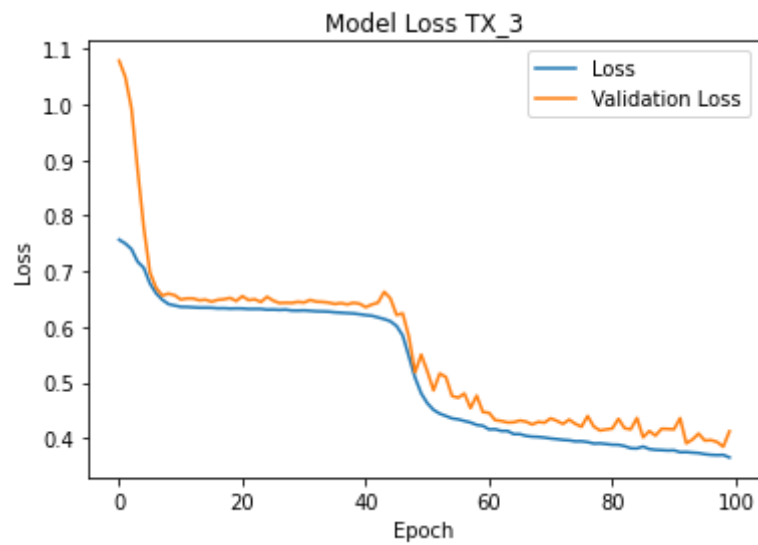
50/50 [=====] - 4s 86ms/step - loss: 0.3696 - val_loss: 0.3933

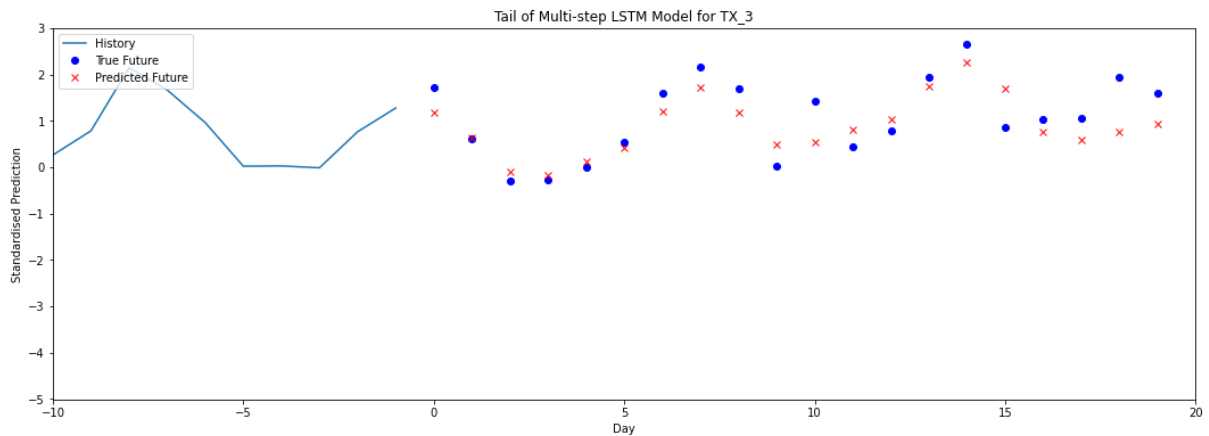
Epoch 99/100

50/50 [=====] - 4s 87ms/step - loss: 0.3701 - val_loss: 0.3848

Epoch 100/100

50/50 [=====] - 4s 87ms/step - loss: 0.3654 - val_loss: 0.4124





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

TX_3 - Model Prediction: [3927.479 3557.8933 3061.5325 3011.7097 3209.9219 3406.639 3933.2505

4286.789 3918.9058 3450.2285 3490.0894 3670.0254 3826.062 4301.205

4654.6157 4268.583 3647.8066 3526.0022 3645.077 3755.7124]

TX_3 - Model Percentage Error: [8.36493225 0.56227559 4.34670998 2.4739611 2.38985247 2.27656581

6.3957523 6.29969262 8.05007598 9.84490658 14.68860045 7.27931572

4.42308984 2.95114896 5.10467436 15.14925837 4.63250613 7.96131043

17.86667633 10.53567407]%

TX_3 - Model Mean Percentage Error: 7.079848967471048%

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Training Model for WI_1...

Epoch 1/100

50/50 [=====] - 5s 100ms/step - loss: 0.7901 - val_loss: 1.2885

Epoch 2/100

50/50 [=====] - 4s 86ms/step - loss: 0.7252 - val_loss: 1.2224

Epoch 3/100

50/50 [=====] - 4s 87ms/step - loss: 0.6091 - val_loss: 1.0913

Epoch 4/100

50/50 [=====] - 4s 87ms/step - loss: 0.5306 - val_loss: 0.9431

Epoch 5/100

50/50 [=====] - 4s 86ms/step - loss: 0.5104 - val_loss: 0.8690

Epoch 6/100

50/50 [=====] - 4s 87ms/step - loss: 0.5046 - val_loss: 0.8439

Epoch 7/100

50/50 [=====] - 4s 87ms/step - loss: 0.5006 - val_loss: 0.8311

Epoch 8/100

50/50 [=====] - 4s 87ms/step - loss: 0.5009 - val_loss: 0.8260

Epoch 9/100

50/50 [=====] - 4s 88ms/step - loss: 0.5008 - val_loss: 0.8230

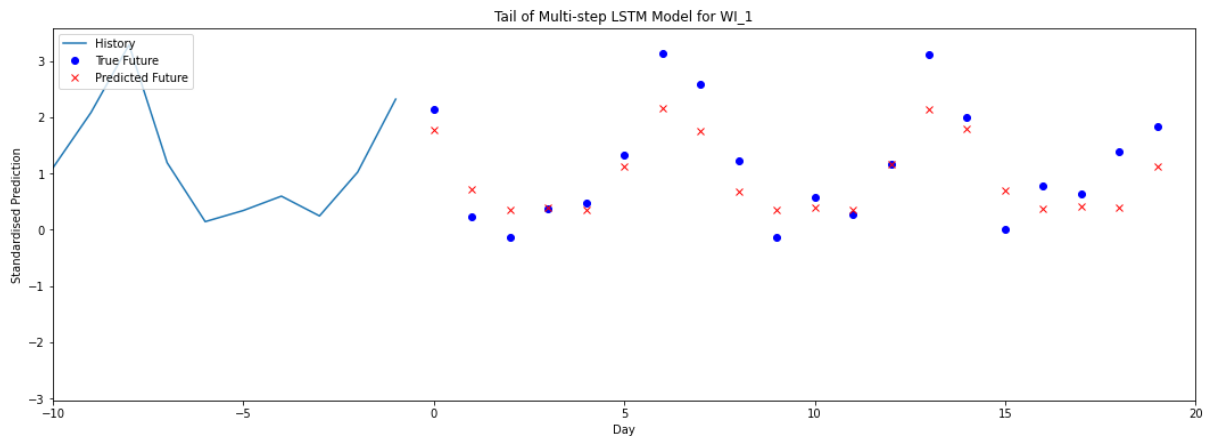
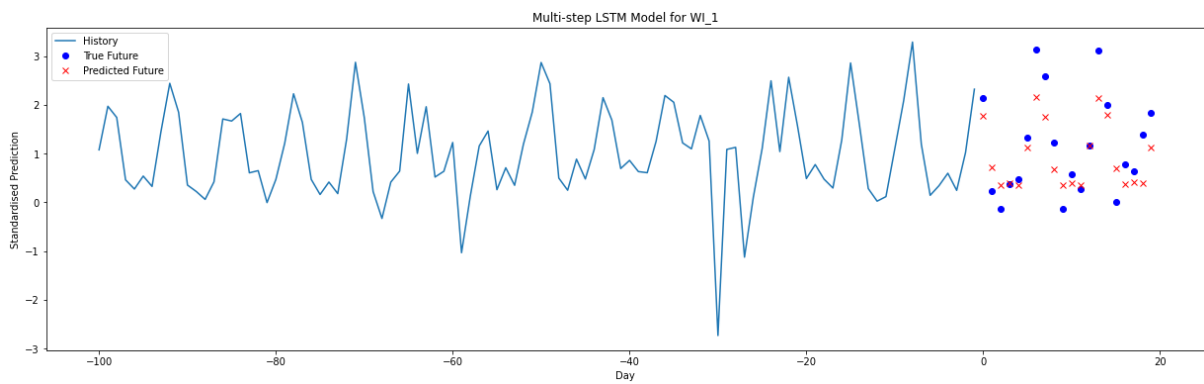
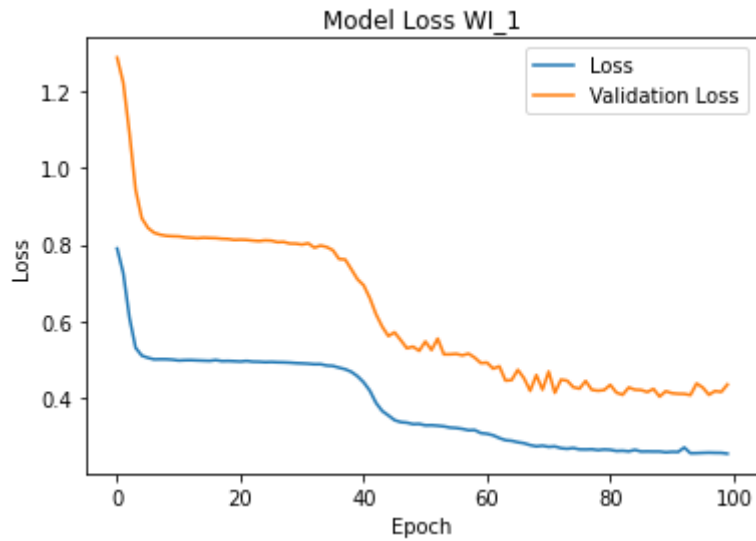
Epoch 10/100

50/50 [=====] - 4s 87ms/step - loss: 0.4998 - val_loss: 0.8222
Epoch 11/100
50/50 [=====] - 4s 87ms/step - loss: 0.4976 - val_loss: 0.8217
Epoch 12/100
50/50 [=====] - 4s 87ms/step - loss: 0.4984 - val_loss: 0.8193
Epoch 13/100
50/50 [=====] - 4s 87ms/step - loss: 0.4986 - val_loss: 0.8181
Epoch 14/100
50/50 [=====] - 4s 87ms/step - loss: 0.4978 - val_loss: 0.8169
Epoch 15/100
50/50 [=====] - 4s 88ms/step - loss: 0.4973 - val_loss: 0.8182
Epoch 16/100
50/50 [=====] - 4s 87ms/step - loss: 0.4967 - val_loss: 0.8175
Epoch 17/100
50/50 [=====] - 4s 87ms/step - loss: 0.4987 - val_loss: 0.8171
Epoch 18/100
50/50 [=====] - 4s 87ms/step - loss: 0.4961 - val_loss: 0.8155
Epoch 19/100
50/50 [=====] - 4s 88ms/step - loss: 0.4964 - val_loss: 0.8149
Epoch 20/100
50/50 [=====] - 4s 87ms/step - loss: 0.4957 - val_loss: 0.8125
Epoch 21/100
50/50 [=====] - 4s 87ms/step - loss: 0.4949 - val_loss: 0.8132
Epoch 22/100
50/50 [=====] - 4s 88ms/step - loss: 0.4965 - val_loss: 0.8125
Epoch 23/100
50/50 [=====] - 4s 88ms/step - loss: 0.4945 - val_loss: 0.8108
Epoch 24/100
50/50 [=====] - 4s 88ms/step - loss: 0.4943 - val_loss: 0.8095
Epoch 25/100
50/50 [=====] - 4s 88ms/step - loss: 0.4933 - val_loss: 0.8113
Epoch 26/100
50/50 [=====] - 4s 88ms/step - loss: 0.4938 - val_loss: 0.8106
Epoch 27/100
50/50 [=====] - 4s 87ms/step - loss: 0.4930 - val_loss: 0.8067
Epoch 28/100
50/50 [=====] - 4s 87ms/step - loss: 0.4927 - val_loss: 0.8072
Epoch 29/100
50/50 [=====] - 4s 87ms/step - loss: 0.4920 - val_loss: 0.8030
Epoch 30/100
50/50 [=====] - 4s 88ms/step - loss: 0.4908 - val_loss: 0.8027
Epoch 31/100
50/50 [=====] - 4s 89ms/step - loss: 0.4901 - val_loss: 0.8004
Epoch 32/100
50/50 [=====] - 4s 89ms/step - loss: 0.4893 - val_loss: 0.8037
Epoch 33/100
50/50 [=====] - 4s 88ms/step - loss: 0.4879 - val_loss: 0.7921
Epoch 34/100

50/50 [=====] - 4s 87ms/step - loss: 0.4880 - val_loss: 0.7977
Epoch 35/100
50/50 [=====] - 4s 87ms/step - loss: 0.4844 - val_loss: 0.7939
Epoch 36/100
50/50 [=====] - 4s 87ms/step - loss: 0.4834 - val_loss: 0.7856
Epoch 37/100
50/50 [=====] - 4s 87ms/step - loss: 0.4789 - val_loss: 0.7626
Epoch 38/100
50/50 [=====] - 4s 87ms/step - loss: 0.4748 - val_loss: 0.7614
Epoch 39/100
50/50 [=====] - 4s 87ms/step - loss: 0.4679 - val_loss: 0.7355
Epoch 40/100
50/50 [=====] - 4s 87ms/step - loss: 0.4564 - val_loss: 0.7095
Epoch 41/100
50/50 [=====] - 4s 87ms/step - loss: 0.4405 - val_loss: 0.6938
Epoch 42/100
50/50 [=====] - 4s 87ms/step - loss: 0.4185 - val_loss: 0.6603
Epoch 43/100
50/50 [=====] - 4s 87ms/step - loss: 0.3868 - val_loss: 0.6181
Epoch 44/100
50/50 [=====] - 4s 87ms/step - loss: 0.3657 - val_loss: 0.5860
Epoch 45/100
50/50 [=====] - 4s 87ms/step - loss: 0.3542 - val_loss: 0.5615
Epoch 46/100
50/50 [=====] - 4s 87ms/step - loss: 0.3419 - val_loss: 0.5710
Epoch 47/100
50/50 [=====] - 4s 87ms/step - loss: 0.3368 - val_loss: 0.5509
Epoch 48/100
50/50 [=====] - 4s 87ms/step - loss: 0.3353 - val_loss: 0.5296
Epoch 49/100
50/50 [=====] - 4s 88ms/step - loss: 0.3315 - val_loss: 0.5338
Epoch 50/100
50/50 [=====] - 4s 88ms/step - loss: 0.3321 - val_loss: 0.5229
Epoch 51/100
50/50 [=====] - 4s 87ms/step - loss: 0.3283 - val_loss: 0.5472
Epoch 52/100
50/50 [=====] - 4s 89ms/step - loss: 0.3287 - val_loss: 0.5248
Epoch 53/100
50/50 [=====] - 4s 88ms/step - loss: 0.3273 - val_loss: 0.5547
Epoch 54/100
50/50 [=====] - 4s 87ms/step - loss: 0.3257 - val_loss: 0.5137
Epoch 55/100
50/50 [=====] - 4s 86ms/step - loss: 0.3224 - val_loss: 0.5137
Epoch 56/100
50/50 [=====] - 4s 87ms/step - loss: 0.3213 - val_loss: 0.5149
Epoch 57/100
50/50 [=====] - 4s 87ms/step - loss: 0.3191 - val_loss: 0.5111
Epoch 58/100

50/50 [=====] - 4s 87ms/step - loss: 0.3155 - val_loss: 0.5155
Epoch 59/100
50/50 [=====] - 4s 87ms/step - loss: 0.3160 - val_loss: 0.5052
Epoch 60/100
50/50 [=====] - 4s 87ms/step - loss: 0.3081 - val_loss: 0.4909
Epoch 61/100
50/50 [=====] - 4s 87ms/step - loss: 0.3063 - val_loss: 0.4920
Epoch 62/100
50/50 [=====] - 4s 89ms/step - loss: 0.3023 - val_loss: 0.4764
Epoch 63/100
50/50 [=====] - 4s 87ms/step - loss: 0.2951 - val_loss: 0.4824
Epoch 64/100
50/50 [=====] - 4s 88ms/step - loss: 0.2896 - val_loss: 0.4452
Epoch 65/100
50/50 [=====] - 4s 87ms/step - loss: 0.2880 - val_loss: 0.4466
Epoch 66/100
50/50 [=====] - 4s 88ms/step - loss: 0.2842 - val_loss: 0.4733
Epoch 67/100
50/50 [=====] - 4s 87ms/step - loss: 0.2816 - val_loss: 0.4514
Epoch 68/100
50/50 [=====] - 4s 87ms/step - loss: 0.2767 - val_loss: 0.4184
Epoch 69/100
50/50 [=====] - 4s 87ms/step - loss: 0.2735 - val_loss: 0.4597
Epoch 70/100
50/50 [=====] - 4s 87ms/step - loss: 0.2752 - val_loss: 0.4214
Epoch 71/100
50/50 [=====] - 4s 87ms/step - loss: 0.2722 - val_loss: 0.4688
Epoch 72/100
50/50 [=====] - 4s 87ms/step - loss: 0.2733 - val_loss: 0.4132
Epoch 73/100
50/50 [=====] - 4s 87ms/step - loss: 0.2688 - val_loss: 0.4476
Epoch 74/100
50/50 [=====] - 4s 87ms/step - loss: 0.2672 - val_loss: 0.4449
Epoch 75/100
50/50 [=====] - 4s 87ms/step - loss: 0.2691 - val_loss: 0.4279
Epoch 76/100
50/50 [=====] - 4s 87ms/step - loss: 0.2656 - val_loss: 0.4243
Epoch 77/100
50/50 [=====] - 4s 87ms/step - loss: 0.2654 - val_loss: 0.4441
Epoch 78/100
50/50 [=====] - 4s 87ms/step - loss: 0.2659 - val_loss: 0.4211
Epoch 79/100
50/50 [=====] - 4s 88ms/step - loss: 0.2638 - val_loss: 0.4187
Epoch 80/100
50/50 [=====] - 4s 87ms/step - loss: 0.2653 - val_loss: 0.4205
Epoch 81/100
50/50 [=====] - 4s 87ms/step - loss: 0.2645 - val_loss: 0.4340
Epoch 82/100

50/50 [=====] - 4s 87ms/step - loss: 0.2614 - val_loss: 0.4137
Epoch 83/100
50/50 [=====] - 4s 87ms/step - loss: 0.2620 - val_loss: 0.4081
Epoch 84/100
50/50 [=====] - 4s 87ms/step - loss: 0.2604 - val_loss: 0.4272
Epoch 85/100
50/50 [=====] - 4s 87ms/step - loss: 0.2643 - val_loss: 0.4213
Epoch 86/100
50/50 [=====] - 4s 86ms/step - loss: 0.2599 - val_loss: 0.4206
Epoch 87/100
50/50 [=====] - 4s 86ms/step - loss: 0.2602 - val_loss: 0.4153
Epoch 88/100
50/50 [=====] - 4s 87ms/step - loss: 0.2599 - val_loss: 0.4234
Epoch 89/100
50/50 [=====] - 4s 88ms/step - loss: 0.2600 - val_loss: 0.4034
Epoch 90/100
50/50 [=====] - 4s 86ms/step - loss: 0.2579 - val_loss: 0.4175
Epoch 91/100
50/50 [=====] - 4s 87ms/step - loss: 0.2592 - val_loss: 0.4122
Epoch 92/100
50/50 [=====] - 4s 88ms/step - loss: 0.2588 - val_loss: 0.4107
Epoch 93/100
50/50 [=====] - 4s 87ms/step - loss: 0.2705 - val_loss: 0.4104
Epoch 94/100
50/50 [=====] - 4s 88ms/step - loss: 0.2555 - val_loss: 0.4073
Epoch 95/100
50/50 [=====] - 4s 87ms/step - loss: 0.2558 - val_loss: 0.4376
Epoch 96/100
50/50 [=====] - 4s 87ms/step - loss: 0.2565 - val_loss: 0.4270
Epoch 97/100
50/50 [=====] - 4s 87ms/step - loss: 0.2570 - val_loss: 0.4081
Epoch 98/100
50/50 [=====] - 4s 89ms/step - loss: 0.2566 - val_loss: 0.4180
Epoch 99/100
50/50 [=====] - 4s 87ms/step - loss: 0.2564 - val_loss: 0.4155
Epoch 100/100
50/50 [=====] - 4s 89ms/step - loss: 0.2544 - val_loss: 0.4351



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

WI_1 - Model Prediction: [4255.4844 3262.872 2907.8843 2956.8108 2926.0808 3654.6956 4631.3193

4231.219 3221.82 2913.633 2947.4514 2925.6865 3676.0134 4610.6763

4272.5864 3236.1455 2937.4524 2980.798 2949.8318 3648.7305]

WI_1 - Model Percentage Error: [7.48947011e+00 1.66144414e+01 1.79190705e+01 6.74524720e-01

3.62052666e+00 4.94940035e+00 1.63719874e+01 1.59471744e+01

1.38550784e+01 1.84403682e+01 5.98241097e+00 3.34463170e+00

3.65281131e-04 1.64126855e+01 4.22357261e+00 2.46109167e+01

1.13355752e+01 6.26421083e+00 2.43438885e+01 1.53033782e+01]%

WI_1 - Model Mean Percentage Error: 11.385183880857149%

=====
=====

Training Model for WI_2...

Epoch 1/100

50/50 [=====] - 5s 98ms/step - loss: 0.7857 - val_loss: 1.5591

Epoch 2/100

50/50 [=====] - 4s 88ms/step - loss: 0.7663 - val_loss: 1.4730

Epoch 3/100

50/50 [=====] - 4s 86ms/step - loss: 0.7322 - val_loss: 1.3036

Epoch 4/100

50/50 [=====] - 4s 88ms/step - loss: 0.6239 - val_loss: 1.1959

Epoch 5/100

50/50 [=====] - 4s 88ms/step - loss: 0.5306 - val_loss: 1.1830

Epoch 6/100

50/50 [=====] - 4s 88ms/step - loss: 0.4831 - val_loss: 1.1462

Epoch 7/100

50/50 [=====] - 4s 87ms/step - loss: 0.4758 - val_loss: 1.2129

Epoch 8/100

50/50 [=====] - 4s 87ms/step - loss: 0.4703 - val_loss: 1.1993

Epoch 9/100

50/50 [=====] - 4s 88ms/step - loss: 0.4663 - val_loss: 1.2234

Epoch 10/100

50/50 [=====] - 4s 88ms/step - loss: 0.4585 - val_loss: 1.1736

Epoch 11/100

50/50 [=====] - 4s 88ms/step - loss: 0.4482 - val_loss: 1.1562

Epoch 12/100

50/50 [=====] - 4s 87ms/step - loss: 0.4405 - val_loss: 1.0918

Epoch 13/100

50/50 [=====] - 4s 88ms/step - loss: 0.4326 - val_loss: 1.0130

Epoch 14/100

50/50 [=====] - 4s 88ms/step - loss: 0.4245 - val_loss: 0.9605

Epoch 15/100

50/50 [=====] - 4s 89ms/step - loss: 0.4174 - val_loss: 0.9060

Epoch 16/100

50/50 [=====] - 6s 125ms/step - loss: 0.4101 - val_loss: 0.9141

Epoch 17/100

50/50 [=====] - 5s 93ms/step - loss: 0.4056 - val_loss: 0.8694

Epoch 18/100

50/50 [=====] - 4s 87ms/step - loss: 0.4017 - val_loss: 0.8403

Epoch 19/100

50/50 [=====] - 4s 90ms/step - loss: 0.3970 - val_loss: 0.7968

Epoch 20/100

50/50 [=====] - 4s 88ms/step - loss: 0.3940 - val_loss: 0.7721

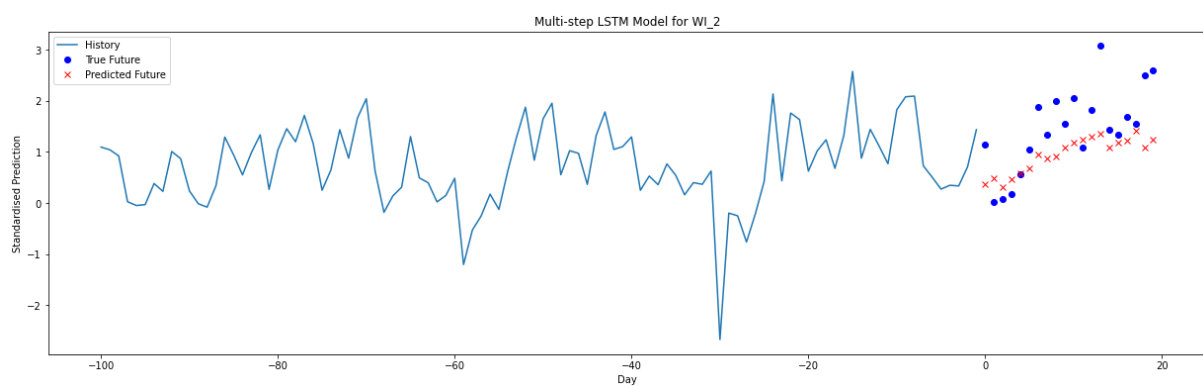
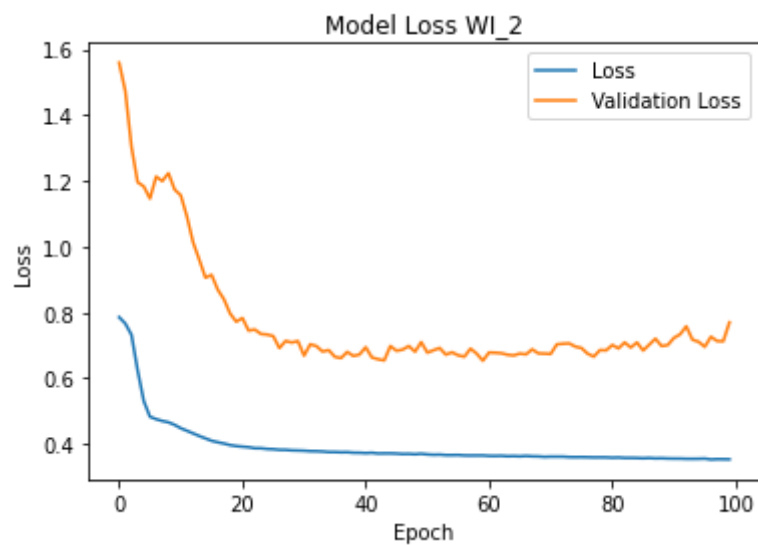
Epoch 21/100

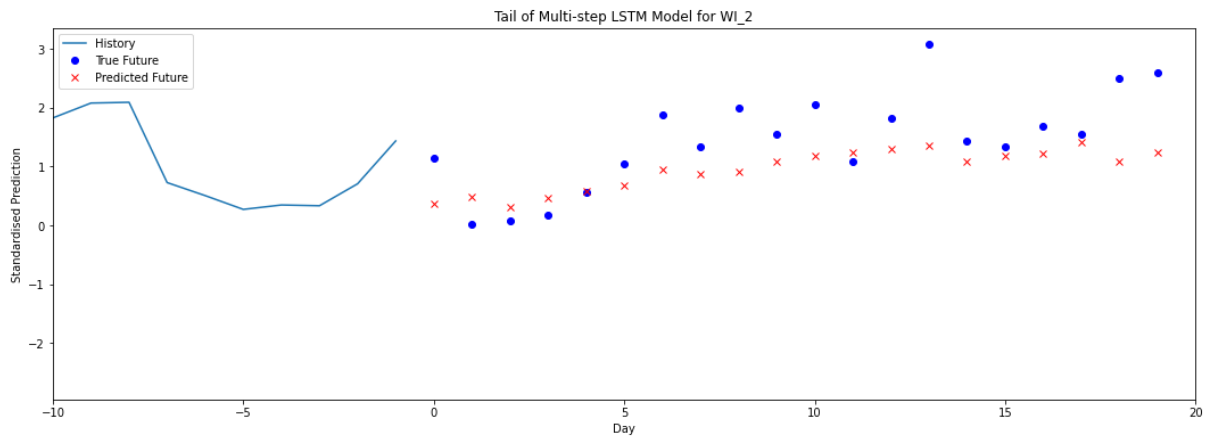
50/50 [=====] - 4s 87ms/step - loss: 0.3922 - val_loss: 0.7829
Epoch 22/100
50/50 [=====] - 4s 87ms/step - loss: 0.3906 - val_loss: 0.7450
Epoch 23/100
50/50 [=====] - 4s 88ms/step - loss: 0.3875 - val_loss: 0.7482
Epoch 24/100
50/50 [=====] - 4s 87ms/step - loss: 0.3874 - val_loss: 0.7348
Epoch 25/100
50/50 [=====] - 4s 88ms/step - loss: 0.3852 - val_loss: 0.7329
Epoch 26/100
50/50 [=====] - 4s 87ms/step - loss: 0.3844 - val_loss: 0.7283
Epoch 27/100
50/50 [=====] - 4s 87ms/step - loss: 0.3827 - val_loss: 0.6918
Epoch 28/100
50/50 [=====] - 4s 89ms/step - loss: 0.3825 - val_loss: 0.7134
Epoch 29/100
50/50 [=====] - 5s 91ms/step - loss: 0.3810 - val_loss: 0.7088
Epoch 30/100
50/50 [=====] - 4s 90ms/step - loss: 0.3805 - val_loss: 0.7130
Epoch 31/100
50/50 [=====] - 4s 89ms/step - loss: 0.3799 - val_loss: 0.6690
Epoch 32/100
50/50 [=====] - 4s 87ms/step - loss: 0.3785 - val_loss: 0.7034
Epoch 33/100
50/50 [=====] - 4s 87ms/step - loss: 0.3783 - val_loss: 0.6978
Epoch 34/100
50/50 [=====] - 4s 87ms/step - loss: 0.3775 - val_loss: 0.6814
Epoch 35/100
50/50 [=====] - 4s 87ms/step - loss: 0.3759 - val_loss: 0.6856
Epoch 36/100
50/50 [=====] - 4s 88ms/step - loss: 0.3759 - val_loss: 0.6653
Epoch 37/100
50/50 [=====] - 4s 88ms/step - loss: 0.3751 - val_loss: 0.6615
Epoch 38/100
50/50 [=====] - 4s 87ms/step - loss: 0.3754 - val_loss: 0.6801
Epoch 39/100
50/50 [=====] - 4s 87ms/step - loss: 0.3738 - val_loss: 0.6679
Epoch 40/100
50/50 [=====] - 4s 86ms/step - loss: 0.3736 - val_loss: 0.6723
Epoch 41/100
50/50 [=====] - 4s 87ms/step - loss: 0.3726 - val_loss: 0.6945
Epoch 42/100
50/50 [=====] - 4s 87ms/step - loss: 0.3736 - val_loss: 0.6634
Epoch 43/100
50/50 [=====] - 4s 87ms/step - loss: 0.3715 - val_loss: 0.6580
Epoch 44/100
50/50 [=====] - 4s 88ms/step - loss: 0.3718 - val_loss: 0.6544
Epoch 45/100

50/50 [=====] - 4s 88ms/step - loss: 0.3718 - val_loss: 0.6981
Epoch 46/100
50/50 [=====] - 4s 87ms/step - loss: 0.3712 - val_loss: 0.6836
Epoch 47/100
50/50 [=====] - 4s 88ms/step - loss: 0.3700 - val_loss: 0.6874
Epoch 48/100
50/50 [=====] - 4s 88ms/step - loss: 0.3703 - val_loss: 0.6980
Epoch 49/100
50/50 [=====] - 4s 87ms/step - loss: 0.3692 - val_loss: 0.6808
Epoch 50/100
50/50 [=====] - 4s 88ms/step - loss: 0.3706 - val_loss: 0.7100
Epoch 51/100
50/50 [=====] - 4s 87ms/step - loss: 0.3687 - val_loss: 0.6780
Epoch 52/100
50/50 [=====] - 4s 87ms/step - loss: 0.3676 - val_loss: 0.6853
Epoch 53/100
50/50 [=====] - 4s 88ms/step - loss: 0.3681 - val_loss: 0.6920
Epoch 54/100
50/50 [=====] - 4s 87ms/step - loss: 0.3666 - val_loss: 0.6719
Epoch 55/100
50/50 [=====] - 4s 88ms/step - loss: 0.3665 - val_loss: 0.6789
Epoch 56/100
50/50 [=====] - 4s 87ms/step - loss: 0.3668 - val_loss: 0.6698
Epoch 57/100
50/50 [=====] - 4s 87ms/step - loss: 0.3655 - val_loss: 0.6658
Epoch 58/100
50/50 [=====] - 4s 88ms/step - loss: 0.3653 - val_loss: 0.6900
Epoch 59/100
50/50 [=====] - 4s 88ms/step - loss: 0.3655 - val_loss: 0.6749
Epoch 60/100
50/50 [=====] - 4s 87ms/step - loss: 0.3655 - val_loss: 0.6534
Epoch 61/100
50/50 [=====] - 4s 88ms/step - loss: 0.3642 - val_loss: 0.6784
Epoch 62/100
50/50 [=====] - 4s 89ms/step - loss: 0.3640 - val_loss: 0.6777
Epoch 63/100
50/50 [=====] - 4s 88ms/step - loss: 0.3645 - val_loss: 0.6762
Epoch 64/100
50/50 [=====] - 4s 88ms/step - loss: 0.3632 - val_loss: 0.6716
Epoch 65/100
50/50 [=====] - 4s 87ms/step - loss: 0.3637 - val_loss: 0.6695
Epoch 66/100
50/50 [=====] - 4s 88ms/step - loss: 0.3628 - val_loss: 0.6752
Epoch 67/100
50/50 [=====] - 4s 87ms/step - loss: 0.3640 - val_loss: 0.6728
Epoch 68/100
50/50 [=====] - 4s 89ms/step - loss: 0.3629 - val_loss: 0.6880
Epoch 69/100

50/50 [=====] - 4s 89ms/step - loss: 0.3626 - val_loss: 0.6757
Epoch 70/100
50/50 [=====] - 5s 90ms/step - loss: 0.3612 - val_loss: 0.6751
Epoch 71/100
50/50 [=====] - 4s 88ms/step - loss: 0.3619 - val_loss: 0.6739
Epoch 72/100
50/50 [=====] - 4s 88ms/step - loss: 0.3618 - val_loss: 0.7032
Epoch 73/100
50/50 [=====] - 4s 89ms/step - loss: 0.3618 - val_loss: 0.7051
Epoch 74/100
50/50 [=====] - 4s 88ms/step - loss: 0.3606 - val_loss: 0.7061
Epoch 75/100
50/50 [=====] - 4s 87ms/step - loss: 0.3603 - val_loss: 0.6964
Epoch 76/100
50/50 [=====] - 4s 88ms/step - loss: 0.3605 - val_loss: 0.6919
Epoch 77/100
50/50 [=====] - 4s 88ms/step - loss: 0.3601 - val_loss: 0.6749
Epoch 78/100
50/50 [=====] - 4s 87ms/step - loss: 0.3596 - val_loss: 0.6659
Epoch 79/100
50/50 [=====] - 4s 88ms/step - loss: 0.3597 - val_loss: 0.6858
Epoch 80/100
50/50 [=====] - 4s 89ms/step - loss: 0.3596 - val_loss: 0.6850
Epoch 81/100
50/50 [=====] - 4s 88ms/step - loss: 0.3587 - val_loss: 0.7011
Epoch 82/100
50/50 [=====] - 4s 90ms/step - loss: 0.3592 - val_loss: 0.6909
Epoch 83/100
50/50 [=====] - 4s 88ms/step - loss: 0.3580 - val_loss: 0.7088
Epoch 84/100
50/50 [=====] - 4s 87ms/step - loss: 0.3581 - val_loss: 0.6936
Epoch 85/100
50/50 [=====] - 4s 89ms/step - loss: 0.3577 - val_loss: 0.7088
Epoch 86/100
50/50 [=====] - 4s 88ms/step - loss: 0.3570 - val_loss: 0.6846
Epoch 87/100
50/50 [=====] - 4s 88ms/step - loss: 0.3578 - val_loss: 0.7024
Epoch 88/100
50/50 [=====] - 5s 90ms/step - loss: 0.3566 - val_loss: 0.7203
Epoch 89/100
50/50 [=====] - 4s 89ms/step - loss: 0.3570 - val_loss: 0.6980
Epoch 90/100
50/50 [=====] - 4s 87ms/step - loss: 0.3562 - val_loss: 0.7010
Epoch 91/100
50/50 [=====] - 4s 88ms/step - loss: 0.3559 - val_loss: 0.7228
Epoch 92/100
50/50 [=====] - 4s 88ms/step - loss: 0.3559 - val_loss: 0.7336
Epoch 93/100

50/50 [=====] - 4s 88ms/step - loss: 0.3553 - val_loss: 0.7579
 Epoch 94/100
 50/50 [=====] - 4s 88ms/step - loss: 0.3552 - val_loss: 0.7174
 Epoch 95/100
 50/50 [=====] - 4s 88ms/step - loss: 0.3553 - val_loss: 0.7110
 Epoch 96/100
 50/50 [=====] - 4s 88ms/step - loss: 0.3559 - val_loss: 0.6957
 Epoch 97/100
 50/50 [=====] - 4s 89ms/step - loss: 0.3533 - val_loss: 0.7263
 Epoch 98/100
 50/50 [=====] - 4s 89ms/step - loss: 0.3542 - val_loss: 0.7132
 Epoch 99/100
 50/50 [=====] - 4s 89ms/step - loss: 0.3539 - val_loss: 0.7127
 Epoch 100/100
 50/50 [=====] - 4s 88ms/step - loss: 0.3537 - val_loss: 0.7698





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

WI_2 - Model Prediction: [3723.1943 3883.8784 3659.7607 3849.946 3986.4565 4111.872 4441.6055

4338.22 4389.949 4615.2656 4737.5557 4796.0757 4877.347 4952.842

4607.099 4721.671 4781.176 5008.5024 4611.6416 4793.794]

WI_2 - Model Percentage Error: [20.27421122 17.65763157 8.08507803 9.99845843 0.6426797 10.00498861

20.48683371 11.73509227 23.22579191 10.71260157 18.12036529 4.10409558

11.41759593 29.70704234 8.69799601 3.77683109 10.76566291 3.31076368

27.1807737 25.827109]%

WI_2 - Model Mean Percentage Error: 13.786580128177903%

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Training Model for WI_3...

Epoch 1/100

50/50 [=====] - 5s 96ms/step - loss: 0.7867 - val_loss: 1.0019

Epoch 2/100

50/50 [=====] - 4s 87ms/step - loss: 0.7837 - val_loss: 1.0059

Epoch 3/100

50/50 [=====] - 4s 87ms/step - loss: 0.7754 - val_loss: 1.0048

Epoch 4/100

50/50 [=====] - 4s 88ms/step - loss: 0.7646 - val_loss: 0.9944

Epoch 5/100

50/50 [=====] - 4s 88ms/step - loss: 0.7499 - val_loss: 0.9736

Epoch 6/100

50/50 [=====] - 4s 87ms/step - loss: 0.7399 - val_loss: 0.9514

Epoch 7/100

50/50 [=====] - 4s 87ms/step - loss: 0.7291 - val_loss: 0.9275

Epoch 8/100

50/50 [=====] - 4s 89ms/step - loss: 0.7216 - val_loss: 0.9034

Epoch 9/100

50/50 [=====] - 4s 88ms/step - loss: 0.7156 - val_loss: 0.8806

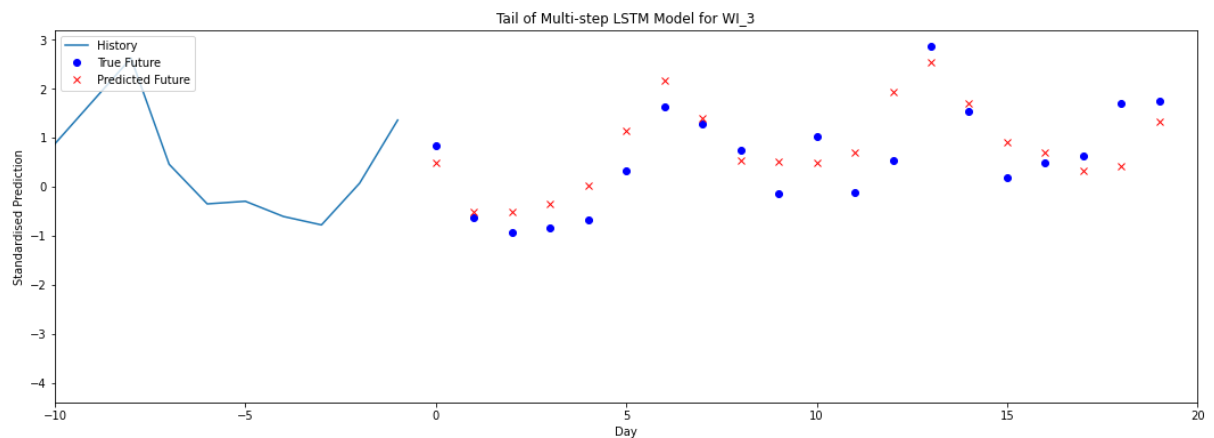
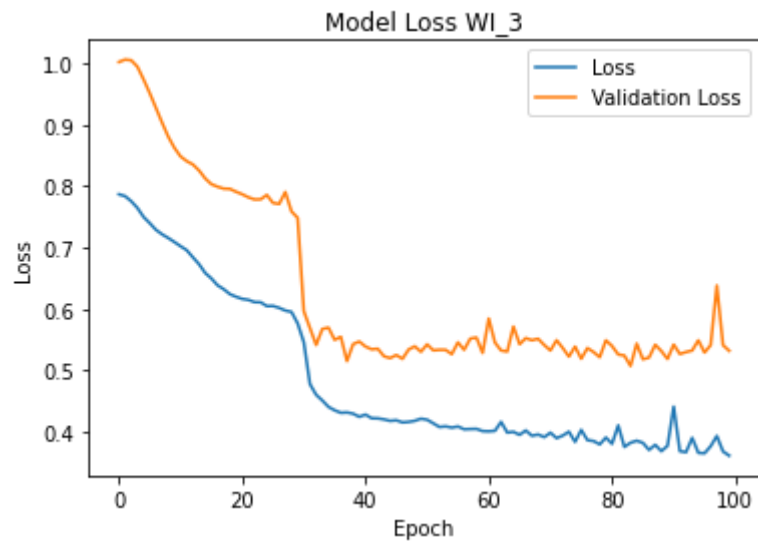
Epoch 10/100

50/50 [=====] - 4s 89ms/step - loss: 0.7091 - val_loss: 0.8624
Epoch 11/100
50/50 [=====] - 4s 87ms/step - loss: 0.7023 - val_loss: 0.8484
Epoch 12/100
50/50 [=====] - 4s 89ms/step - loss: 0.6958 - val_loss: 0.8407
Epoch 13/100
50/50 [=====] - 4s 87ms/step - loss: 0.6842 - val_loss: 0.8353
Epoch 14/100
50/50 [=====] - 4s 87ms/step - loss: 0.6730 - val_loss: 0.8255
Epoch 15/100
50/50 [=====] - 4s 88ms/step - loss: 0.6588 - val_loss: 0.8126
Epoch 16/100
50/50 [=====] - 4s 87ms/step - loss: 0.6499 - val_loss: 0.8032
Epoch 17/100
50/50 [=====] - 4s 87ms/step - loss: 0.6387 - val_loss: 0.7991
Epoch 18/100
50/50 [=====] - 4s 87ms/step - loss: 0.6323 - val_loss: 0.7959
Epoch 19/100
50/50 [=====] - 4s 87ms/step - loss: 0.6243 - val_loss: 0.7955
Epoch 20/100
50/50 [=====] - 4s 88ms/step - loss: 0.6200 - val_loss: 0.7909
Epoch 21/100
50/50 [=====] - 4s 89ms/step - loss: 0.6165 - val_loss: 0.7868
Epoch 22/100
50/50 [=====] - 4s 88ms/step - loss: 0.6149 - val_loss: 0.7818
Epoch 23/100
50/50 [=====] - 4s 88ms/step - loss: 0.6113 - val_loss: 0.7783
Epoch 24/100
50/50 [=====] - 4s 88ms/step - loss: 0.6110 - val_loss: 0.7786
Epoch 25/100
50/50 [=====] - 4s 88ms/step - loss: 0.6048 - val_loss: 0.7856
Epoch 26/100
50/50 [=====] - 4s 88ms/step - loss: 0.6050 - val_loss: 0.7726
Epoch 27/100
50/50 [=====] - 4s 88ms/step - loss: 0.6019 - val_loss: 0.7710
Epoch 28/100
50/50 [=====] - 4s 88ms/step - loss: 0.5976 - val_loss: 0.7904
Epoch 29/100
50/50 [=====] - 4s 88ms/step - loss: 0.5954 - val_loss: 0.7589
Epoch 30/100
50/50 [=====] - 4s 88ms/step - loss: 0.5767 - val_loss: 0.7483
Epoch 31/100
50/50 [=====] - 4s 89ms/step - loss: 0.5460 - val_loss: 0.5966
Epoch 32/100
50/50 [=====] - 4s 87ms/step - loss: 0.4778 - val_loss: 0.5690
Epoch 33/100
50/50 [=====] - 4s 88ms/step - loss: 0.4604 - val_loss: 0.5415
Epoch 34/100

50/50 [=====] - 4s 89ms/step - loss: 0.4512 - val_loss: 0.5676
Epoch 35/100
50/50 [=====] - 4s 88ms/step - loss: 0.4408 - val_loss: 0.5697
Epoch 36/100
50/50 [=====] - 4s 88ms/step - loss: 0.4353 - val_loss: 0.5499
Epoch 37/100
50/50 [=====] - 5s 90ms/step - loss: 0.4312 - val_loss: 0.5548
Epoch 38/100
50/50 [=====] - 4s 90ms/step - loss: 0.4318 - val_loss: 0.5153
Epoch 39/100
50/50 [=====] - 4s 88ms/step - loss: 0.4297 - val_loss: 0.5430
Epoch 40/100
50/50 [=====] - 4s 88ms/step - loss: 0.4247 - val_loss: 0.5471
Epoch 41/100
50/50 [=====] - 4s 87ms/step - loss: 0.4283 - val_loss: 0.5390
Epoch 42/100
50/50 [=====] - 4s 88ms/step - loss: 0.4223 - val_loss: 0.5345
Epoch 43/100
50/50 [=====] - 4s 87ms/step - loss: 0.4221 - val_loss: 0.5354
Epoch 44/100
50/50 [=====] - 4s 88ms/step - loss: 0.4205 - val_loss: 0.5232
Epoch 45/100
50/50 [=====] - 4s 87ms/step - loss: 0.4180 - val_loss: 0.5201
Epoch 46/100
50/50 [=====] - 4s 87ms/step - loss: 0.4190 - val_loss: 0.5252
Epoch 47/100
50/50 [=====] - 4s 87ms/step - loss: 0.4156 - val_loss: 0.5190
Epoch 48/100
50/50 [=====] - 4s 87ms/step - loss: 0.4164 - val_loss: 0.5341
Epoch 49/100
50/50 [=====] - 4s 87ms/step - loss: 0.4181 - val_loss: 0.5393
Epoch 50/100
50/50 [=====] - 5s 100ms/step - loss: 0.4216 - val_loss: 0.5304
Epoch 51/100
50/50 [=====] - 6s 116ms/step - loss: 0.4199 - val_loss: 0.5426
Epoch 52/100
50/50 [=====] - 4s 87ms/step - loss: 0.4141 - val_loss: 0.5328
Epoch 53/100
50/50 [=====] - 4s 87ms/step - loss: 0.4081 - val_loss: 0.5336
Epoch 54/100
50/50 [=====] - 4s 88ms/step - loss: 0.4091 - val_loss: 0.5335
Epoch 55/100
50/50 [=====] - 4s 89ms/step - loss: 0.4071 - val_loss: 0.5266
Epoch 56/100
50/50 [=====] - 4s 87ms/step - loss: 0.4089 - val_loss: 0.5458
Epoch 57/100
50/50 [=====] - 4s 87ms/step - loss: 0.4044 - val_loss: 0.5336
Epoch 58/100

50/50 [=====] - 4s 87ms/step - loss: 0.4048 - val_loss: 0.5519
Epoch 59/100
50/50 [=====] - 4s 87ms/step - loss: 0.4050 - val_loss: 0.5536
Epoch 60/100
50/50 [=====] - 4s 87ms/step - loss: 0.4014 - val_loss: 0.5286
Epoch 61/100
50/50 [=====] - 4s 88ms/step - loss: 0.4011 - val_loss: 0.5846
Epoch 62/100
50/50 [=====] - 4s 87ms/step - loss: 0.4018 - val_loss: 0.5455
Epoch 63/100
50/50 [=====] - 4s 87ms/step - loss: 0.4164 - val_loss: 0.5326
Epoch 64/100
50/50 [=====] - 4s 88ms/step - loss: 0.3990 - val_loss: 0.5309
Epoch 65/100
50/50 [=====] - 4s 87ms/step - loss: 0.4002 - val_loss: 0.5715
Epoch 66/100
50/50 [=====] - 4s 86ms/step - loss: 0.3953 - val_loss: 0.5427
Epoch 67/100
50/50 [=====] - 4s 87ms/step - loss: 0.4024 - val_loss: 0.5526
Epoch 68/100
50/50 [=====] - 4s 86ms/step - loss: 0.3938 - val_loss: 0.5493
Epoch 69/100
50/50 [=====] - 4s 86ms/step - loss: 0.3959 - val_loss: 0.5517
Epoch 70/100
50/50 [=====] - 4s 87ms/step - loss: 0.3916 - val_loss: 0.5415
Epoch 71/100
50/50 [=====] - 4s 88ms/step - loss: 0.3988 - val_loss: 0.5326
Epoch 72/100
50/50 [=====] - 4s 87ms/step - loss: 0.3899 - val_loss: 0.5492
Epoch 73/100
50/50 [=====] - 4s 87ms/step - loss: 0.3941 - val_loss: 0.5366
Epoch 74/100
50/50 [=====] - 4s 87ms/step - loss: 0.4004 - val_loss: 0.5226
Epoch 75/100
50/50 [=====] - 4s 87ms/step - loss: 0.3838 - val_loss: 0.5390
Epoch 76/100
50/50 [=====] - 4s 87ms/step - loss: 0.4034 - val_loss: 0.5191
Epoch 77/100
50/50 [=====] - 4s 87ms/step - loss: 0.3868 - val_loss: 0.5365
Epoch 78/100
50/50 [=====] - 4s 88ms/step - loss: 0.3852 - val_loss: 0.5301
Epoch 79/100
50/50 [=====] - 4s 87ms/step - loss: 0.3799 - val_loss: 0.5216
Epoch 80/100
50/50 [=====] - 4s 87ms/step - loss: 0.3909 - val_loss: 0.5491
Epoch 81/100
50/50 [=====] - 4s 86ms/step - loss: 0.3807 - val_loss: 0.5398
Epoch 82/100

50/50 [=====] - 4s 87ms/step - loss: 0.4107 - val_loss: 0.5261
Epoch 83/100
50/50 [=====] - 4s 86ms/step - loss: 0.3757 - val_loss: 0.5243
Epoch 84/100
50/50 [=====] - 4s 87ms/step - loss: 0.3825 - val_loss: 0.5074
Epoch 85/100
50/50 [=====] - 4s 88ms/step - loss: 0.3857 - val_loss: 0.5438
Epoch 86/100
50/50 [=====] - 4s 87ms/step - loss: 0.3823 - val_loss: 0.5183
Epoch 87/100
50/50 [=====] - 4s 87ms/step - loss: 0.3708 - val_loss: 0.5210
Epoch 88/100
50/50 [=====] - 4s 88ms/step - loss: 0.3790 - val_loss: 0.5419
Epoch 89/100
50/50 [=====] - 4s 87ms/step - loss: 0.3687 - val_loss: 0.5317
Epoch 90/100
50/50 [=====] - 4s 87ms/step - loss: 0.3774 - val_loss: 0.5187
Epoch 91/100
50/50 [=====] - 4s 87ms/step - loss: 0.4412 - val_loss: 0.5422
Epoch 92/100
50/50 [=====] - 4s 88ms/step - loss: 0.3687 - val_loss: 0.5268
Epoch 93/100
50/50 [=====] - 4s 87ms/step - loss: 0.3671 - val_loss: 0.5300
Epoch 94/100
50/50 [=====] - 4s 88ms/step - loss: 0.3904 - val_loss: 0.5325
Epoch 95/100
50/50 [=====] - 4s 87ms/step - loss: 0.3660 - val_loss: 0.5492
Epoch 96/100
50/50 [=====] - 4s 87ms/step - loss: 0.3653 - val_loss: 0.5292
Epoch 97/100
50/50 [=====] - 4s 87ms/step - loss: 0.3768 - val_loss: 0.5414
Epoch 98/100
50/50 [=====] - 4s 87ms/step - loss: 0.3935 - val_loss: 0.6383
Epoch 99/100
50/50 [=====] - 4s 88ms/step - loss: 0.3683 - val_loss: 0.5413
Epoch 100/100
50/50 [=====] - 4s 86ms/step - loss: 0.3615 - val_loss: 0.5321



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

WI_3 - Model Prediction: [3711.8574 2908.851 2897.749 3023.9995 3341.6545 4255.2803 5088.003

4462.252 3763.11 3730.7344 3722.4814 3889.4446 4900.802 5391.249 4714.343 4067.3208 3890.979 3578.4216 3656.278 4404.702]

WI_3 - Model Percentage Error: [7.15714302 3.66539823 13.01673258 14.89359847 20.41998346 18.86257747

9.34887018 2.29830246 4.44108412 16.22225467 10.36644726 20.82772849 30.47928003 4.6977369 3.00071605 17.28145331 4.3717544 6.64175239

22.55288972 7.44479621]%

WI_3 - Model Mean Percentage Error: 11.899524970938366%

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