

Training Model for CA_1...

Epoch 1/100
50/50 [=====] - 5s 102ms/step - loss: 0.7745 - val_loss: 0.7204
Epoch 2/100
50/50 [=====] - 5s 92ms/step - loss: 0.7658 - val_loss: 0.7222
Epoch 3/100
50/50 [=====] - 5s 93ms/step - loss: 0.7516 - val_loss: 0.7239
Epoch 4/100
50/50 [=====] - 5s 92ms/step - loss: 0.7279 - val_loss: 0.7201
Epoch 5/100
50/50 [=====] - 5s 90ms/step - loss: 0.7134 - val_loss: 0.7177
Epoch 6/100
50/50 [=====] - 5s 92ms/step - loss: 0.7044 - val_loss: 0.7163
Epoch 7/100
50/50 [=====] - 5s 91ms/step - loss: 0.7012 - val_loss: 0.7152
Epoch 8/100
50/50 [=====] - 5s 92ms/step - loss: 0.6990 - val_loss: 0.7144
Epoch 9/100
50/50 [=====] - 5s 91ms/step - loss: 0.6972 - val_loss: 0.7140
Epoch 10/100
50/50 [=====] - 5s 92ms/step - loss: 0.6962 - val_loss: 0.7134
Epoch 11/100
50/50 [=====] - 5s 94ms/step - loss: 0.6949 - val_loss: 0.7130
Epoch 12/100
50/50 [=====] - 5s 91ms/step - loss: 0.6934 - val_loss: 0.7123
Epoch 13/100
50/50 [=====] - 4s 90ms/step - loss: 0.6928 - val_loss: 0.7115
Epoch 14/100
50/50 [=====] - 5s 91ms/step - loss: 0.6922 - val_loss: 0.7109
Epoch 15/100
50/50 [=====] - 5s 90ms/step - loss: 0.6904 - val_loss: 0.7099
Epoch 16/100
50/50 [=====] - 5s 92ms/step - loss: 0.6895 - val_loss: 0.7092
Epoch 17/100
50/50 [=====] - 5s 92ms/step - loss: 0.6898 - val_loss: 0.7084
Epoch 18/100
50/50 [=====] - 5s 91ms/step - loss: 0.6869 - val_loss: 0.7072
Epoch 19/100
50/50 [=====] - 5s 92ms/step - loss: 0.6862 - val_loss: 0.7060
Epoch 20/100
50/50 [=====] - 4s 90ms/step - loss: 0.6851 - val_loss: 0.7047
Epoch 21/100
50/50 [=====] - 5s 91ms/step - loss: 0.6825 - val_loss: 0.7027
Epoch 22/100
50/50 [=====] - 5s 91ms/step - loss: 0.6790 - val_loss: 0.7006

Epoch 23/100
50/50 [=====] - 5s 91ms/step - loss: 0.6752 - val_loss: 0.6974
Epoch 24/100
50/50 [=====] - 5s 91ms/step - loss: 0.6676 - val_loss: 0.6909
Epoch 25/100
50/50 [=====] - 5s 91ms/step - loss: 0.6543 - val_loss: 0.6801
Epoch 26/100
50/50 [=====] - 5s 91ms/step - loss: 0.6297 - val_loss: 0.6332
Epoch 27/100
50/50 [=====] - 5s 91ms/step - loss: 0.5564 - val_loss: 0.4935
Epoch 28/100
50/50 [=====] - 5s 91ms/step - loss: 0.4628 - val_loss: 0.4275
Epoch 29/100
50/50 [=====] - 5s 91ms/step - loss: 0.4209 - val_loss: 0.4587
Epoch 30/100
50/50 [=====] - 5s 91ms/step - loss: 0.4145 - val_loss: 0.4226
Epoch 31/100
50/50 [=====] - 5s 91ms/step - loss: 0.4063 - val_loss: 0.4229
Epoch 32/100
50/50 [=====] - 5s 91ms/step - loss: 0.4026 - val_loss: 0.4032
Epoch 33/100
50/50 [=====] - 5s 92ms/step - loss: 0.3991 - val_loss: 0.4007
Epoch 34/100
50/50 [=====] - 5s 93ms/step - loss: 0.3980 - val_loss: 0.4195
Epoch 35/100
50/50 [=====] - 5s 92ms/step - loss: 0.3947 - val_loss: 0.4030
Epoch 36/100
50/50 [=====] - 5s 92ms/step - loss: 0.3928 - val_loss: 0.3950
Epoch 37/100
50/50 [=====] - 5s 91ms/step - loss: 0.3883 - val_loss: 0.3899
Epoch 38/100
50/50 [=====] - 5s 92ms/step - loss: 0.3851 - val_loss: 0.3827
Epoch 39/100
50/50 [=====] - 5s 91ms/step - loss: 0.3861 - val_loss: 0.3808
Epoch 40/100
50/50 [=====] - 5s 92ms/step - loss: 0.3798 - val_loss: 0.3776
Epoch 41/100
50/50 [=====] - 5s 92ms/step - loss: 0.3800 - val_loss: 0.3820
Epoch 42/100
50/50 [=====] - 5s 92ms/step - loss: 0.3749 - val_loss: 0.3860
Epoch 43/100
50/50 [=====] - 5s 92ms/step - loss: 0.3691 - val_loss: 0.3603
Epoch 44/100
50/50 [=====] - 5s 92ms/step - loss: 0.3714 - val_loss: 0.3765
Epoch 45/100
50/50 [=====] - 5s 92ms/step - loss: 0.3686 - val_loss: 0.3603
Epoch 46/100
50/50 [=====] - 5s 91ms/step - loss: 0.3606 - val_loss: 0.3690

Epoch 47/100
50/50 [=====] - 5s 92ms/step - loss: 0.3597 - val_loss: 0.3668
Epoch 48/100
50/50 [=====] - 5s 91ms/step - loss: 0.3551 - val_loss: 0.3611
Epoch 49/100
50/50 [=====] - 5s 92ms/step - loss: 0.3561 - val_loss: 0.3383
Epoch 50/100
50/50 [=====] - 5s 91ms/step - loss: 0.3581 - val_loss: 0.3392
Epoch 51/100
50/50 [=====] - 5s 92ms/step - loss: 0.3437 - val_loss: 0.3326
Epoch 52/100
50/50 [=====] - 5s 90ms/step - loss: 0.3483 - val_loss: 0.3527
Epoch 53/100
50/50 [=====] - 5s 93ms/step - loss: 0.3354 - val_loss: 0.3322
Epoch 54/100
50/50 [=====] - 5s 92ms/step - loss: 0.3448 - val_loss: 0.3323
Epoch 55/100
50/50 [=====] - 5s 92ms/step - loss: 0.3476 - val_loss: 0.3510
Epoch 56/100
50/50 [=====] - 5s 92ms/step - loss: 0.3302 - val_loss: 0.3406
Epoch 57/100
50/50 [=====] - 5s 92ms/step - loss: 0.3450 - val_loss: 0.3444
Epoch 58/100
50/50 [=====] - 5s 92ms/step - loss: 0.3276 - val_loss: 0.3292
Epoch 59/100
50/50 [=====] - 5s 92ms/step - loss: 0.3255 - val_loss: 0.3300
Epoch 60/100
50/50 [=====] - 5s 92ms/step - loss: 0.3783 - val_loss: 0.3352
Epoch 61/100
50/50 [=====] - 5s 91ms/step - loss: 0.3243 - val_loss: 0.3321
Epoch 62/100
50/50 [=====] - 5s 92ms/step - loss: 0.3222 - val_loss: 0.3244
Epoch 63/100
50/50 [=====] - 5s 91ms/step - loss: 0.3389 - val_loss: 0.3294
Epoch 64/100
50/50 [=====] - 5s 92ms/step - loss: 0.3217 - val_loss: 0.3277
Epoch 65/100
50/50 [=====] - 5s 91ms/step - loss: 0.3184 - val_loss: 0.3188
Epoch 66/100
50/50 [=====] - 5s 91ms/step - loss: 0.3189 - val_loss: 0.3208
Epoch 67/100
50/50 [=====] - 5s 92ms/step - loss: 0.3165 - val_loss: 0.3338
Epoch 68/100
50/50 [=====] - 5s 92ms/step - loss: 0.4206 - val_loss: 0.6882
Epoch 69/100
50/50 [=====] - 5s 93ms/step - loss: 0.6508 - val_loss: 0.6569
Epoch 70/100
50/50 [=====] - 5s 91ms/step - loss: 0.5360 - val_loss: 0.3674

Epoch 71/100
50/50 [=====] - 5s 91ms/step - loss: 0.3370 - val_loss: 0.3289
Epoch 72/100
50/50 [=====] - 5s 91ms/step - loss: 0.3210 - val_loss: 0.3349
Epoch 73/100
50/50 [=====] - 5s 92ms/step - loss: 0.3177 - val_loss: 0.3234
Epoch 74/100
50/50 [=====] - 5s 92ms/step - loss: 0.3132 - val_loss: 0.3314
Epoch 75/100
50/50 [=====] - 5s 91ms/step - loss: 0.3107 - val_loss: 0.3175
Epoch 76/100
50/50 [=====] - 5s 92ms/step - loss: 0.3086 - val_loss: 0.3395
Epoch 77/100
50/50 [=====] - 5s 92ms/step - loss: 0.3063 - val_loss: 0.3204
Epoch 78/100
50/50 [=====] - 5s 92ms/step - loss: 0.3058 - val_loss: 0.3182
Epoch 79/100
50/50 [=====] - 5s 91ms/step - loss: 0.3039 - val_loss: 0.3185
Epoch 80/100
50/50 [=====] - 5s 91ms/step - loss: 0.3146 - val_loss: 0.3216
Epoch 81/100
50/50 [=====] - 5s 92ms/step - loss: 0.3034 - val_loss: 0.3324
Epoch 82/100
50/50 [=====] - 5s 91ms/step - loss: 0.3022 - val_loss: 0.3184
Epoch 83/100
50/50 [=====] - 5s 91ms/step - loss: 0.3009 - val_loss: 0.3218
Epoch 84/100
50/50 [=====] - 5s 92ms/step - loss: 0.3008 - val_loss: 0.3703
Epoch 85/100
50/50 [=====] - 5s 92ms/step - loss: 0.6859 - val_loss: 0.6950
Epoch 86/100
50/50 [=====] - 5s 92ms/step - loss: 0.6593 - val_loss: 0.6738
Epoch 87/100
50/50 [=====] - 5s 92ms/step - loss: 0.6235 - val_loss: 0.6081
Epoch 88/100
50/50 [=====] - 5s 91ms/step - loss: 0.4588 - val_loss: 0.3939
Epoch 89/100
50/50 [=====] - 5s 92ms/step - loss: 0.3614 - val_loss: 0.3524
Epoch 90/100
50/50 [=====] - 5s 91ms/step - loss: 0.3423 - val_loss: 0.3301
Epoch 91/100
50/50 [=====] - 5s 91ms/step - loss: 0.3273 - val_loss: 0.3195
Epoch 92/100
50/50 [=====] - 5s 92ms/step - loss: 0.3208 - val_loss: 0.3220
Epoch 93/100
50/50 [=====] - 5s 92ms/step - loss: 0.3059 - val_loss: 0.3183
Epoch 94/100
50/50 [=====] - 5s 92ms/step - loss: 0.3190 - val_loss: 0.3172

Epoch 95/100

50/50 [=====] - 5s 91ms/step - loss: 0.3029 - val_loss: 0.3182

Epoch 96/100

50/50 [=====] - 5s 92ms/step - loss: 0.3011 - val_loss: 0.3227

Epoch 97/100

50/50 [=====] - 5s 91ms/step - loss: 0.3673 - val_loss: 0.3221

Epoch 98/100

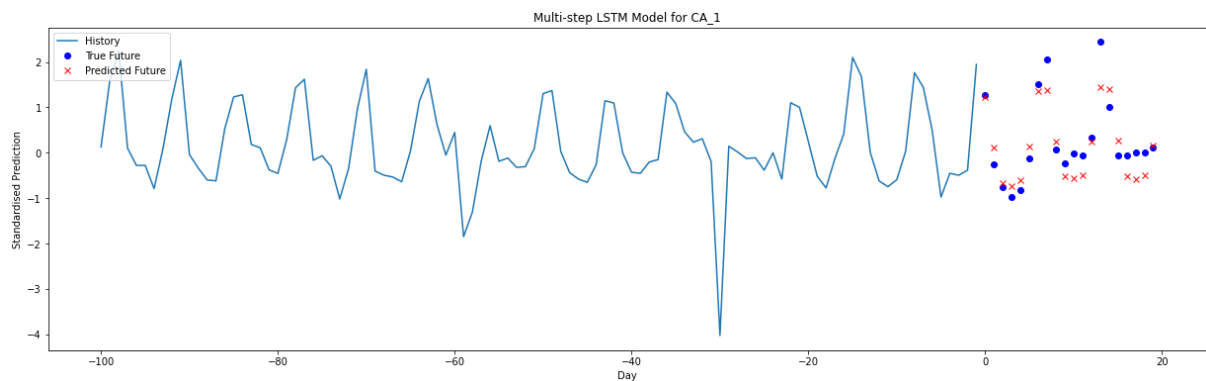
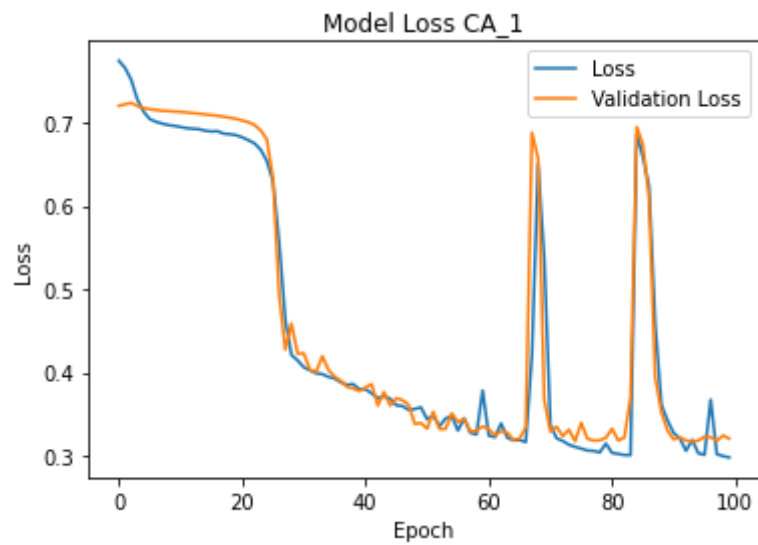
50/50 [=====] - 5s 92ms/step - loss: 0.3018 - val_loss: 0.3180

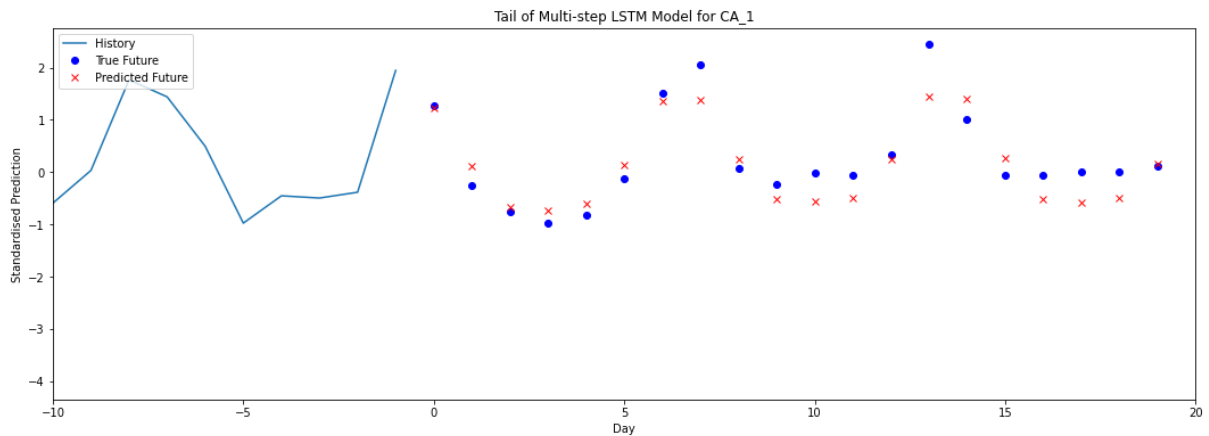
Epoch 99/100

50/50 [=====] - 5s 92ms/step - loss: 0.2996 - val_loss: 0.3243

Epoch 100/100

50/50 [=====] - 5s 96ms/step - loss: 0.2979 - val_loss: 0.3206





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: [5210.231 4112.674 3321.4233 3272.0298 3385.6846 4122.4414 5345.666

5366.098 4246.1514 3470.773 3432.13 3513.09 4248.4126 5427.258

5391.844 4255.8066 3476.2778 3406.4324 3508.7397 4152.5977]

CA_1 - Model Percentage Error: [0.70076316 9.93514643 2.32357794 7.95215391 6.70294895 6.49551553

2.77071634 11.03948699 4.20003355 7.81479551 13.83053269 10.56287964

1.8162099 15.3578008 8.13967586 8.20764405 11.67993313 14.73260643

12.43474554 1.01186223]%

CA_1 - Model Mean Percentage Error: 7.8854514299837986%

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Training Model for CA_2...

Epoch 1/100

50/50 [=====] - 5s 109ms/step - loss: 0.7879 - val_loss: 1.8217

Epoch 2/100

50/50 [=====] - 4s 90ms/step - loss: 0.7793 - val_loss: 1.8223

Epoch 3/100

50/50 [=====] - 5s 91ms/step - loss: 0.7700 - val_loss: 1.8010

Epoch 4/100

50/50 [=====] - 5s 92ms/step - loss: 0.7595 - val_loss: 1.7280

Epoch 5/100

50/50 [=====] - 5s 92ms/step - loss: 0.7381 - val_loss: 1.5614

Epoch 6/100

50/50 [=====] - 5s 91ms/step - loss: 0.7191 - val_loss: 1.3826

Epoch 7/100

50/50 [=====] - 5s 91ms/step - loss: 0.6980 - val_loss: 1.2097

Epoch 8/100

50/50 [=====] - 5s 92ms/step - loss: 0.6857 - val_loss: 1.1361

Epoch 9/100

50/50 [=====] - 5s 91ms/step - loss: 0.6819 - val_loss: 1.1200

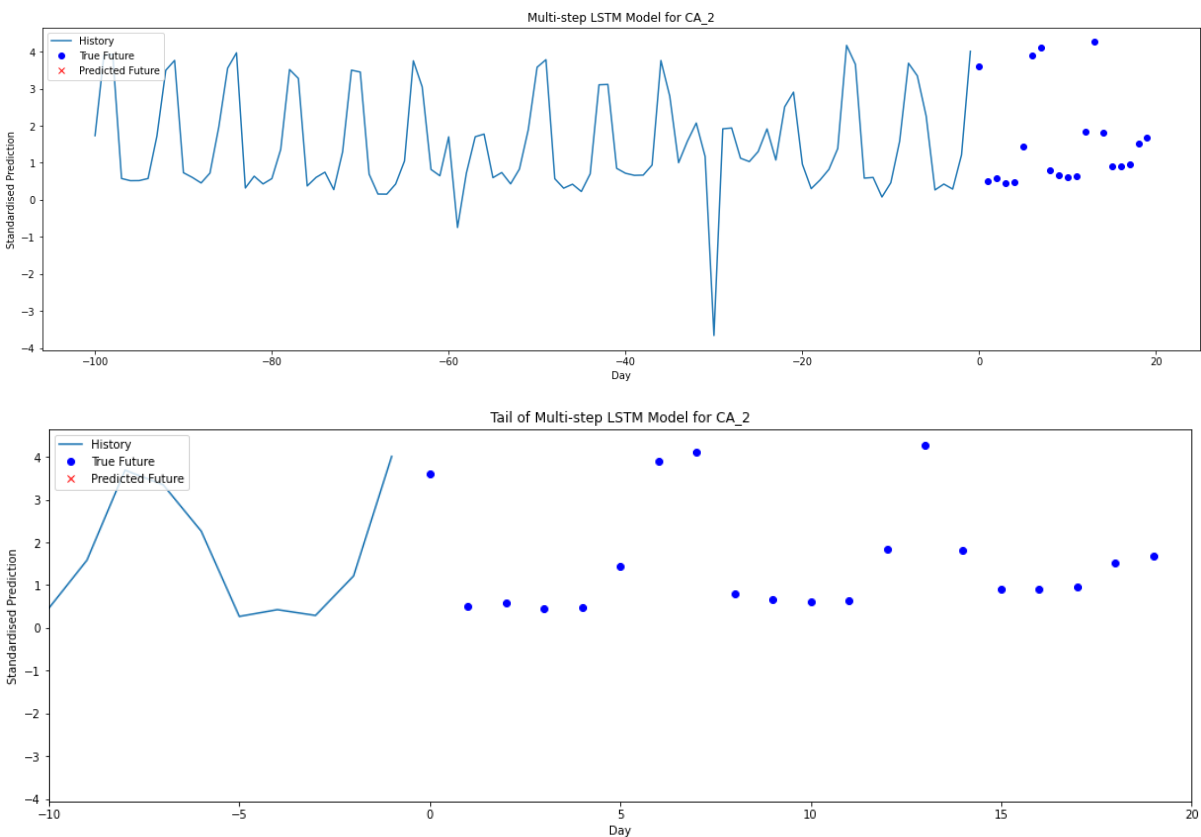
Epoch 10/100

50/50 [=====] - 5s 92ms/step - loss: 0.6774 - val_loss: 1.1155
Epoch 11/100
50/50 [=====] - 5s 91ms/step - loss: 0.6773 - val_loss: 1.1043
Epoch 12/100
50/50 [=====] - 5s 92ms/step - loss: 0.6752 - val_loss: 1.1008
Epoch 13/100
50/50 [=====] - 5s 91ms/step - loss: 0.6740 - val_loss: 1.0991
Epoch 14/100
50/50 [=====] - 5s 92ms/step - loss: 0.6734 - val_loss: 1.0966
Epoch 15/100
50/50 [=====] - 5s 92ms/step - loss: 0.6718 - val_loss: 1.0960
Epoch 16/100
50/50 [=====] - 5s 92ms/step - loss: 0.6712 - val_loss: 1.0962
Epoch 17/100
50/50 [=====] - 5s 93ms/step - loss: 0.6700 - val_loss: 1.0932
Epoch 18/100
50/50 [=====] - 5s 92ms/step - loss: 0.6681 - val_loss: 1.0919
Epoch 19/100
50/50 [=====] - 5s 92ms/step - loss: 0.6670 - val_loss: 1.0937
Epoch 20/100
50/50 [=====] - 5s 92ms/step - loss: 0.6638 - val_loss: 1.0918
Epoch 21/100
50/50 [=====] - 5s 92ms/step - loss: 0.6596 - val_loss: 1.1013
Epoch 22/100
50/50 [=====] - 5s 92ms/step - loss: 0.6505 - val_loss: 1.0997
Epoch 23/100
50/50 [=====] - 5s 93ms/step - loss: 0.6330 - val_loss: 1.0971
Epoch 24/100
50/50 [=====] - 5s 91ms/step - loss: 0.5995 - val_loss: 1.0342
Epoch 25/100
50/50 [=====] - 5s 92ms/step - loss: 0.4989 - val_loss: 1.0248
Epoch 26/100
50/50 [=====] - 5s 92ms/step - loss: 0.4389 - val_loss: 0.8206
Epoch 27/100
50/50 [=====] - 5s 92ms/step - loss: 0.4067 - val_loss: 0.8022
Epoch 28/100
50/50 [=====] - 5s 93ms/step - loss: 0.3937 - val_loss: 0.7738
Epoch 29/100
50/50 [=====] - 5s 92ms/step - loss: 0.3895 - val_loss: 0.7602
Epoch 30/100
50/50 [=====] - 5s 93ms/step - loss: 0.4246 - val_loss: 1.0962
Epoch 31/100
50/50 [=====] - 5s 91ms/step - loss: 0.4319 - val_loss: 0.7743
Epoch 32/100
50/50 [=====] - 5s 92ms/step - loss: 0.3711 - val_loss: 0.7337
Epoch 33/100
50/50 [=====] - 5s 92ms/step - loss: 0.3784 - val_loss: 0.8009
Epoch 34/100

50/50 [=====] - 5s 94ms/step - loss: 0.3704 - val_loss: 0.7351
Epoch 35/100
50/50 [=====] - 5s 94ms/step - loss: 0.3635 - val_loss: 0.7141
Epoch 36/100
50/50 [=====] - 5s 94ms/step - loss: 0.3626 - val_loss: 0.7290
Epoch 37/100
50/50 [=====] - 5s 92ms/step - loss: 0.3523 - val_loss: 0.6894
Epoch 38/100
50/50 [=====] - 5s 92ms/step - loss: 0.3351 - val_loss: 0.7014
Epoch 39/100
50/50 [=====] - 5s 92ms/step - loss: 0.3312 - val_loss: 0.6637
Epoch 40/100
50/50 [=====] - 5s 93ms/step - loss: 0.3246 - val_loss: 0.6345
Epoch 41/100
50/50 [=====] - 5s 93ms/step - loss: 0.3184 - val_loss: 0.6388
Epoch 42/100
50/50 [=====] - 5s 92ms/step - loss: 0.3074 - val_loss: 0.6057
Epoch 43/100
50/50 [=====] - 5s 92ms/step - loss: 0.3347 - val_loss: 0.6676
Epoch 44/100
50/50 [=====] - 5s 93ms/step - loss: 0.3237 - val_loss: 1.0160
Epoch 45/100
50/50 [=====] - 5s 93ms/step - loss: 0.3829 - val_loss: 0.6251
Epoch 46/100
50/50 [=====] - 5s 92ms/step - loss: 0.2970 - val_loss: 0.6095
Epoch 47/100
50/50 [=====] - 5s 92ms/step - loss: 0.3035 - val_loss: 0.5905
Epoch 48/100
50/50 [=====] - 5s 92ms/step - loss: 0.3933 - val_loss: 0.7650
Epoch 49/100
50/50 [=====] - 5s 91ms/step - loss: 0.3010 - val_loss: 0.5950
Epoch 50/100
50/50 [=====] - 5s 92ms/step - loss: 0.2895 - val_loss: 0.5697
Epoch 51/100
50/50 [=====] - 5s 92ms/step - loss: 0.2922 - val_loss: 0.7769
Epoch 52/100
50/50 [=====] - 5s 92ms/step - loss: 0.2917 - val_loss: 0.5690
Epoch 53/100
50/50 [=====] - 5s 93ms/step - loss: 0.2951 - val_loss: 0.5456
Epoch 54/100
50/50 [=====] - 5s 92ms/step - loss: 0.2825 - val_loss: 0.5710
Epoch 55/100
50/50 [=====] - 5s 93ms/step - loss: 0.5265 - val_loss: 1.0555
Epoch 56/100
50/50 [=====] - 5s 92ms/step - loss: 0.4473 - val_loss: 0.7008
Epoch 57/100
50/50 [=====] - 5s 93ms/step - loss: 0.3013 - val_loss: 0.6006
Epoch 58/100

50/50 [=====] - 5s 92ms/step - loss: 0.2881 - val_loss: 0.5651
Epoch 59/100
50/50 [=====] - 5s 92ms/step - loss: 0.2822 - val_loss: 0.5656
Epoch 60/100
50/50 [=====] - 6s 128ms/step - loss: 0.2819 - val_loss: 0.5415
Epoch 61/100
50/50 [=====] - 5s 93ms/step - loss: 0.2787 - val_loss: 0.5559
Epoch 62/100
50/50 [=====] - 5s 93ms/step - loss: 0.2780 - val_loss: 0.5406
Epoch 63/100
50/50 [=====] - 5s 94ms/step - loss: 0.3195 - val_loss: 0.5475
Epoch 64/100
50/50 [=====] - 5s 93ms/step - loss: 0.2785 - val_loss: 0.5431
Epoch 65/100
50/50 [=====] - 5s 92ms/step - loss: 0.2759 - val_loss: 0.5426
Epoch 66/100
50/50 [=====] - 5s 93ms/step - loss: 0.2747 - val_loss: 0.5312
Epoch 67/100
50/50 [=====] - 5s 92ms/step - loss: 0.2750 - val_loss: 0.5345
Epoch 68/100
50/50 [=====] - 5s 93ms/step - loss: 0.6083 - val_loss: 1.0454
Epoch 69/100
50/50 [=====] - 5s 92ms/step - loss: 0.5797 - val_loss: 0.9960
Epoch 70/100
50/50 [=====] - 5s 93ms/step - loss: 0.3673 - val_loss: 0.6227
Epoch 71/100
50/50 [=====] - 5s 92ms/step - loss: 0.2898 - val_loss: 0.5805
Epoch 72/100
50/50 [=====] - 5s 92ms/step - loss: 0.2809 - val_loss: 0.5567
Epoch 73/100
50/50 [=====] - 5s 91ms/step - loss: 0.2777 - val_loss: 0.5380
Epoch 74/100
50/50 [=====] - 5s 92ms/step - loss: 0.2746 - val_loss: 0.5500
Epoch 75/100
50/50 [=====] - 5s 92ms/step - loss: 0.2747 - val_loss: 0.5482
Epoch 76/100
50/50 [=====] - 5s 91ms/step - loss: 0.2725 - val_loss: 0.5390
Epoch 77/100
50/50 [=====] - 5s 91ms/step - loss: 0.2722 - val_loss: 0.5245
Epoch 78/100
50/50 [=====] - 5s 91ms/step - loss: 0.2712 - val_loss: 0.5195
Epoch 79/100
50/50 [=====] - 5s 93ms/step - loss: 0.2713 - val_loss: 0.5321
Epoch 80/100
50/50 [=====] - 5s 92ms/step - loss: 0.2705 - val_loss: 0.5342
Epoch 81/100
50/50 [=====] - 5s 93ms/step - loss: 0.2707 - val_loss: 0.5334
Epoch 82/100

50/50 [=====] - 5s 92ms/step - loss: 0.2701 - val_loss: 0.5116
Epoch 83/100
50/50 [=====] - 5s 93ms/step - loss: 0.3512 - val_loss: nan
Epoch 84/100
50/50 [=====] - 5s 91ms/step - loss: nan - val_loss: nan
Epoch 85/100
50/50 [=====] - 5s 93ms/step - loss: nan - val_loss: nan
Epoch 86/100
50/50 [=====] - 5s 93ms/step - loss: nan - val_loss: nan
Epoch 87/100
50/50 [=====] - 5s 92ms/step - loss: nan - val_loss: nan
Epoch 88/100
50/50 [=====] - 5s 91ms/step - loss: nan - val_loss: nan
Epoch 89/100
50/50 [=====] - 5s 92ms/step - loss: nan - val_loss: nan
Epoch 90/100
50/50 [=====] - 5s 92ms/step - loss: nan - val_loss: nan
Epoch 91/100
50/50 [=====] - 5s 92ms/step - loss: nan - val_loss: nan
Epoch 92/100
50/50 [=====] - 5s 92ms/step - loss: nan - val_loss: nan
Epoch 93/100
50/50 [=====] - 5s 92ms/step - loss: nan - val_loss: nan
Epoch 94/100
50/50 [=====] - 5s 92ms/step - loss: nan - val_loss: nan
Epoch 95/100
50/50 [=====] - 5s 91ms/step - loss: nan - val_loss: nan
Epoch 96/100
50/50 [=====] - 5s 93ms/step - loss: nan - val_loss: nan
Epoch 97/100
50/50 [=====] - 5s 92ms/step - loss: nan - val_loss: nan
Epoch 98/100
50/50 [=====] - 5s 92ms/step - loss: nan - val_loss: nan
Epoch 99/100
50/50 [=====] - 5s 93ms/step - loss: nan - val_loss: nan
Epoch 100/100
50/50 [=====] - 5s 94ms/step - loss: nan - val_loss: nan

[illegible][illegible]

CA_2 - Model Mean Percentage Error: nan%

=====

=====

Training Model for CA_3...

Epoch 1/100

50/50 [=====] - 5s 100ms/step - loss: 0.7372 - val_loss: 0.6575

Epoch 2/100

50/50 [=====] - 5s 91ms/step - loss: 0.7303 - val_loss: 0.6517

Epoch 3/100

50/50 [=====] - 5s 91ms/step - loss: 0.7246 - val_loss: 0.6472

Epoch 4/100

50/50 [=====] - 5s 91ms/step - loss: 0.7120 - val_loss: 0.6437

Epoch 5/100

50/50 [=====] - 5s 92ms/step - loss: 0.6851 - val_loss: 0.6402

Epoch 6/100

50/50 [=====] - 5s 92ms/step - loss: 0.6603 - val_loss: 0.6419

Epoch 7/100

50/50 [=====] - 5s 91ms/step - loss: 0.6324 - val_loss: 0.6401

Epoch 8/100

50/50 [=====] - 5s 92ms/step - loss: 0.6244 - val_loss: 0.6390

Epoch 9/100

50/50 [=====] - 5s 91ms/step - loss: 0.6216 - val_loss: 0.6383

Epoch 10/100

50/50 [=====] - 5s 92ms/step - loss: 0.6188 - val_loss: 0.6374

Epoch 11/100

50/50 [=====] - 5s 91ms/step - loss: 0.6195 - val_loss: 0.6372

Epoch 12/100

50/50 [=====] - 5s 92ms/step - loss: 0.6176 - val_loss: 0.6377

Epoch 13/100

50/50 [=====] - 5s 92ms/step - loss: 0.6167 - val_loss: 0.6386

Epoch 14/100

50/50 [=====] - 5s 93ms/step - loss: 0.6164 - val_loss: 0.6370

Epoch 15/100

50/50 [=====] - 5s 92ms/step - loss: 0.6143 - val_loss: 0.6352

Epoch 16/100

50/50 [=====] - 5s 92ms/step - loss: 0.6138 - val_loss: 0.6354

Epoch 17/100

50/50 [=====] - 5s 93ms/step - loss: 0.6130 - val_loss: 0.6332

Epoch 18/100

50/50 [=====] - 5s 94ms/step - loss: 0.6111 - val_loss: 0.6302

Epoch 19/100

50/50 [=====] - 5s 94ms/step - loss: 0.6086 - val_loss: 0.6269

Epoch 20/100

50/50 [=====] - 5s 94ms/step - loss: 0.6060 - val_loss: 0.6263

Epoch 21/100

50/50 [=====] - 5s 95ms/step - loss: 0.6047 - val_loss: 0.6253

Epoch 22/100

50/50 [=====] - 5s 94ms/step - loss: 0.6026 - val_loss: 0.6237

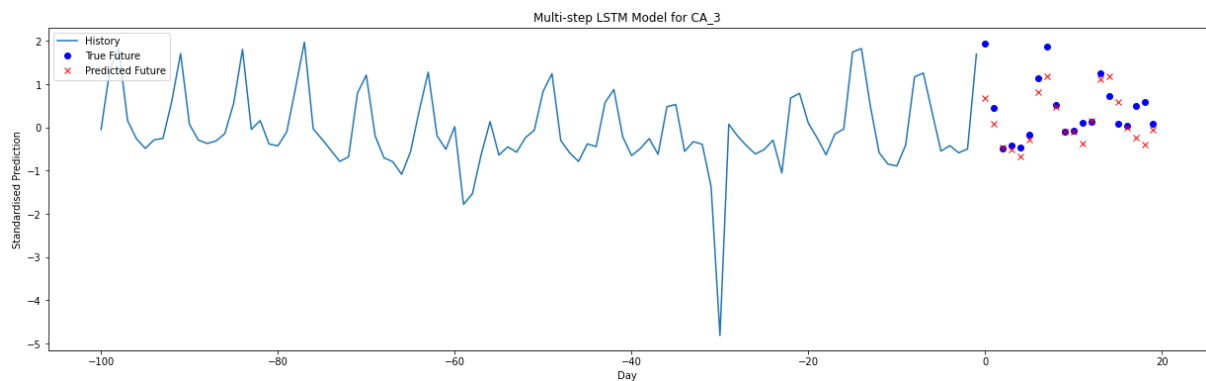
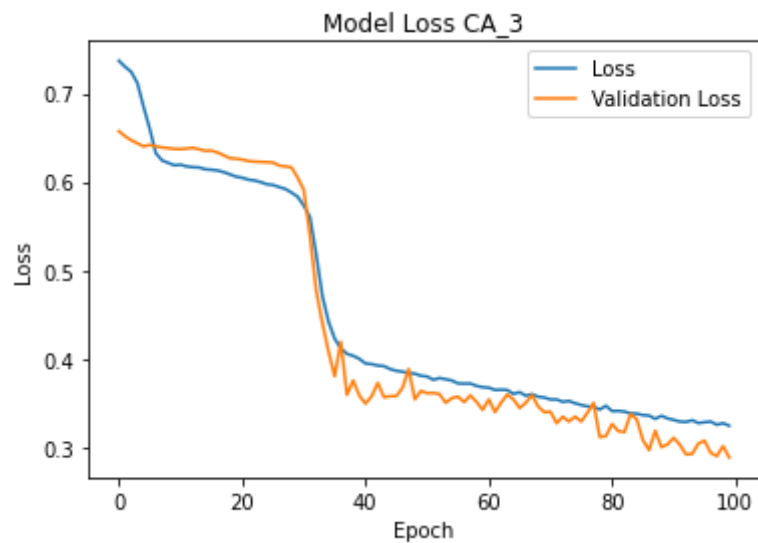
Epoch 23/100

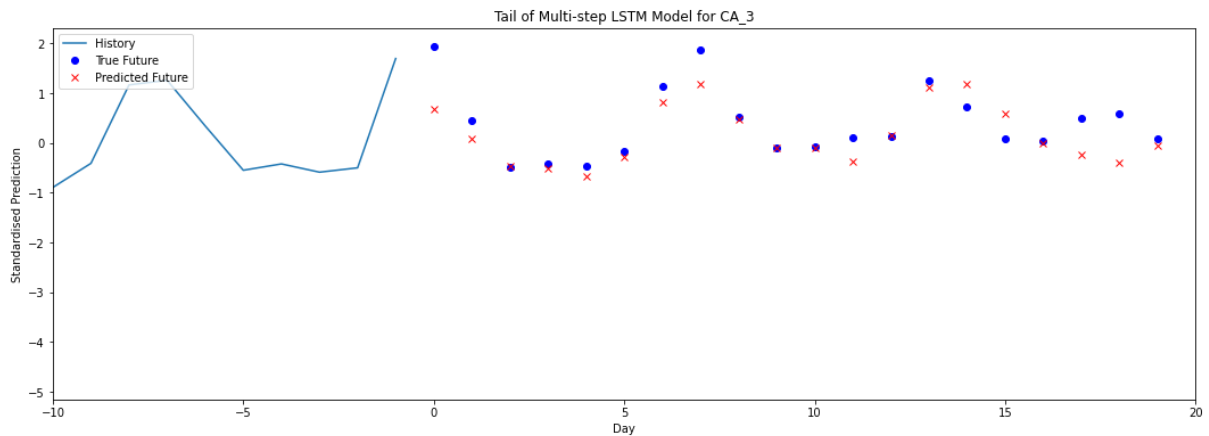
50/50 [=====] - 5s 94ms/step - loss: 0.6017 - val_loss: 0.6230
Epoch 24/100
50/50 [=====] - 5s 93ms/step - loss: 0.5998 - val_loss: 0.6227
Epoch 25/100
50/50 [=====] - 5s 94ms/step - loss: 0.5974 - val_loss: 0.6223
Epoch 26/100
50/50 [=====] - 5s 91ms/step - loss: 0.5965 - val_loss: 0.6220
Epoch 27/100
50/50 [=====] - 5s 97ms/step - loss: 0.5942 - val_loss: 0.6185
Epoch 28/100
50/50 [=====] - 7s 138ms/step - loss: 0.5921 - val_loss: 0.6176
Epoch 29/100
50/50 [=====] - 5s 93ms/step - loss: 0.5880 - val_loss: 0.6165
Epoch 30/100
50/50 [=====] - 5s 92ms/step - loss: 0.5833 - val_loss: 0.6048
Epoch 31/100
50/50 [=====] - 5s 93ms/step - loss: 0.5733 - val_loss: 0.5909
Epoch 32/100
50/50 [=====] - 5s 91ms/step - loss: 0.5602 - val_loss: 0.5389
Epoch 33/100
50/50 [=====] - 5s 93ms/step - loss: 0.5184 - val_loss: 0.4773
Epoch 34/100
50/50 [=====] - 5s 91ms/step - loss: 0.4714 - val_loss: 0.4408
Epoch 35/100
50/50 [=====] - 5s 92ms/step - loss: 0.4421 - val_loss: 0.4082
Epoch 36/100
50/50 [=====] - 5s 91ms/step - loss: 0.4228 - val_loss: 0.3802
Epoch 37/100
50/50 [=====] - 5s 92ms/step - loss: 0.4118 - val_loss: 0.4192
Epoch 38/100
50/50 [=====] - 5s 92ms/step - loss: 0.4056 - val_loss: 0.3591
Epoch 39/100
50/50 [=====] - 5s 92ms/step - loss: 0.4033 - val_loss: 0.3754
Epoch 40/100
50/50 [=====] - 5s 92ms/step - loss: 0.3999 - val_loss: 0.3584
Epoch 41/100
50/50 [=====] - 5s 92ms/step - loss: 0.3947 - val_loss: 0.3492
Epoch 42/100
50/50 [=====] - 5s 92ms/step - loss: 0.3940 - val_loss: 0.3576
Epoch 43/100
50/50 [=====] - 5s 91ms/step - loss: 0.3923 - val_loss: 0.3726
Epoch 44/100
50/50 [=====] - 5s 92ms/step - loss: 0.3917 - val_loss: 0.3565
Epoch 45/100
50/50 [=====] - 5s 92ms/step - loss: 0.3883 - val_loss: 0.3577
Epoch 46/100
50/50 [=====] - 5s 92ms/step - loss: 0.3864 - val_loss: 0.3576
Epoch 47/100

50/50 [=====] - 5s 92ms/step - loss: 0.3854 - val_loss: 0.3670
Epoch 48/100
50/50 [=====] - 5s 92ms/step - loss: 0.3840 - val_loss: 0.3884
Epoch 49/100
50/50 [=====] - 5s 92ms/step - loss: 0.3831 - val_loss: 0.3542
Epoch 50/100
50/50 [=====] - 5s 92ms/step - loss: 0.3808 - val_loss: 0.3636
Epoch 51/100
50/50 [=====] - 5s 92ms/step - loss: 0.3800 - val_loss: 0.3611
Epoch 52/100
50/50 [=====] - 5s 92ms/step - loss: 0.3762 - val_loss: 0.3612
Epoch 53/100
50/50 [=====] - 5s 91ms/step - loss: 0.3782 - val_loss: 0.3601
Epoch 54/100
50/50 [=====] - 5s 93ms/step - loss: 0.3768 - val_loss: 0.3502
Epoch 55/100
50/50 [=====] - 5s 92ms/step - loss: 0.3754 - val_loss: 0.3555
Epoch 56/100
50/50 [=====] - 5s 92ms/step - loss: 0.3721 - val_loss: 0.3572
Epoch 57/100
50/50 [=====] - 5s 93ms/step - loss: 0.3719 - val_loss: 0.3510
Epoch 58/100
50/50 [=====] - 5s 93ms/step - loss: 0.3720 - val_loss: 0.3586
Epoch 59/100
50/50 [=====] - 5s 92ms/step - loss: 0.3693 - val_loss: 0.3513
Epoch 60/100
50/50 [=====] - 5s 93ms/step - loss: 0.3678 - val_loss: 0.3422
Epoch 61/100
50/50 [=====] - 5s 92ms/step - loss: 0.3673 - val_loss: 0.3540
Epoch 62/100
50/50 [=====] - 5s 94ms/step - loss: 0.3648 - val_loss: 0.3396
Epoch 63/100
50/50 [=====] - 5s 93ms/step - loss: 0.3650 - val_loss: 0.3505
Epoch 64/100
50/50 [=====] - 5s 94ms/step - loss: 0.3647 - val_loss: 0.3595
Epoch 65/100
50/50 [=====] - 5s 94ms/step - loss: 0.3602 - val_loss: 0.3541
Epoch 66/100
50/50 [=====] - 5s 94ms/step - loss: 0.3622 - val_loss: 0.3443
Epoch 67/100
50/50 [=====] - 5s 93ms/step - loss: 0.3582 - val_loss: 0.3501
Epoch 68/100
50/50 [=====] - 5s 93ms/step - loss: 0.3600 - val_loss: 0.3590
Epoch 69/100
50/50 [=====] - 5s 93ms/step - loss: 0.3570 - val_loss: 0.3461
Epoch 70/100
50/50 [=====] - 5s 93ms/step - loss: 0.3562 - val_loss: 0.3396
Epoch 71/100

50/50 [=====] - 5s 93ms/step - loss: 0.3540 - val_loss: 0.3401
Epoch 72/100
50/50 [=====] - 5s 92ms/step - loss: 0.3540 - val_loss: 0.3271
Epoch 73/100
50/50 [=====] - 5s 92ms/step - loss: 0.3513 - val_loss: 0.3345
Epoch 74/100
50/50 [=====] - 5s 92ms/step - loss: 0.3522 - val_loss: 0.3291
Epoch 75/100
50/50 [=====] - 5s 93ms/step - loss: 0.3497 - val_loss: 0.3345
Epoch 76/100
50/50 [=====] - 5s 92ms/step - loss: 0.3477 - val_loss: 0.3291
Epoch 77/100
50/50 [=====] - 5s 92ms/step - loss: 0.3461 - val_loss: 0.3389
Epoch 78/100
50/50 [=====] - 5s 93ms/step - loss: 0.3458 - val_loss: 0.3500
Epoch 79/100
50/50 [=====] - 5s 93ms/step - loss: 0.3426 - val_loss: 0.3113
Epoch 80/100
50/50 [=====] - 5s 93ms/step - loss: 0.3468 - val_loss: 0.3126
Epoch 81/100
50/50 [=====] - 5s 93ms/step - loss: 0.3408 - val_loss: 0.3263
Epoch 82/100
50/50 [=====] - 5s 92ms/step - loss: 0.3410 - val_loss: 0.3181
Epoch 83/100
50/50 [=====] - 5s 93ms/step - loss: 0.3402 - val_loss: 0.3170
Epoch 84/100
50/50 [=====] - 5s 92ms/step - loss: 0.3381 - val_loss: 0.3374
Epoch 85/100
50/50 [=====] - 5s 93ms/step - loss: 0.3379 - val_loss: 0.3316
Epoch 86/100
50/50 [=====] - 5s 92ms/step - loss: 0.3363 - val_loss: 0.3079
Epoch 87/100
50/50 [=====] - 5s 93ms/step - loss: 0.3357 - val_loss: 0.2966
Epoch 88/100
50/50 [=====] - 5s 92ms/step - loss: 0.3320 - val_loss: 0.3185
Epoch 89/100
50/50 [=====] - 5s 92ms/step - loss: 0.3355 - val_loss: 0.3000
Epoch 90/100
50/50 [=====] - 5s 93ms/step - loss: 0.3325 - val_loss: 0.3031
Epoch 91/100
50/50 [=====] - 5s 92ms/step - loss: 0.3308 - val_loss: 0.3106
Epoch 92/100
50/50 [=====] - 5s 94ms/step - loss: 0.3289 - val_loss: 0.3026
Epoch 93/100
50/50 [=====] - 5s 93ms/step - loss: 0.3285 - val_loss: 0.2918
Epoch 94/100
50/50 [=====] - 5s 93ms/step - loss: 0.3304 - val_loss: 0.2924
Epoch 95/100

50/50 [=====] - 5s 92ms/step - loss: 0.3273 - val_loss: 0.3041
 Epoch 96/100
 50/50 [=====] - 5s 93ms/step - loss: 0.3282 - val_loss: 0.3073
 Epoch 97/100
 50/50 [=====] - 5s 91ms/step - loss: 0.3289 - val_loss: 0.2935
 Epoch 98/100
 50/50 [=====] - 5s 93ms/step - loss: 0.3253 - val_loss: 0.2899
 Epoch 99/100
 50/50 [=====] - 5s 92ms/step - loss: 0.3272 - val_loss: 0.3012
 Epoch 100/100
 50/50 [=====] - 5s 93ms/step - loss: 0.3242 - val_loss: 0.2883





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: [6641.84 5929.3257 5278.663 5197.144 5011.884 5494.77 6828.901

7273.9385 6390.0054 5714.662 5706.143 5371.0503 6009.546 7183.7812

7270.505 6530.497 5813.8223 5556.507 5346.001 5755.4]

CA_3 - Model Percentage Error: [18.64478388 6.93257442 0.66100469 2.10691198 4.73514942 2.52315027

5.37756853 10.13172132 0.86867249 0.12823996 0.58984205 9.74541601

0.39334946 2.22157003 8.57982203 10.12642614 1.15909103 13.46352849

18.34426491 2.91160759]%

CA_3 - Model Mean Percentage Error: 5.982234734531251%

=====

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Training Model for CA_4...

Epoch 1/100

50/50 [=====] - 5s 101ms/step - loss: 0.7288 - val_loss: 0.9877

Epoch 2/100

50/50 [=====] - 5s 92ms/step - loss: 0.7063 - val_loss: 0.8839

Epoch 3/100

50/50 [=====] - 5s 91ms/step - loss: 0.6807 - val_loss: 0.7213

Epoch 4/100

50/50 [=====] - 5s 93ms/step - loss: 0.6417 - val_loss: 0.6281

Epoch 5/100

50/50 [=====] - 5s 92ms/step - loss: 0.6231 - val_loss: 0.5994

Epoch 6/100

50/50 [=====] - 5s 92ms/step - loss: 0.6019 - val_loss: 0.5947

Epoch 7/100

50/50 [=====] - 5s 92ms/step - loss: 0.5758 - val_loss: 0.5941

Epoch 8/100

50/50 [=====] - 5s 93ms/step - loss: 0.5464 - val_loss: 0.5940

Epoch 9/100

50/50 [=====] - 5s 92ms/step - loss: 0.5282 - val_loss: 0.5937

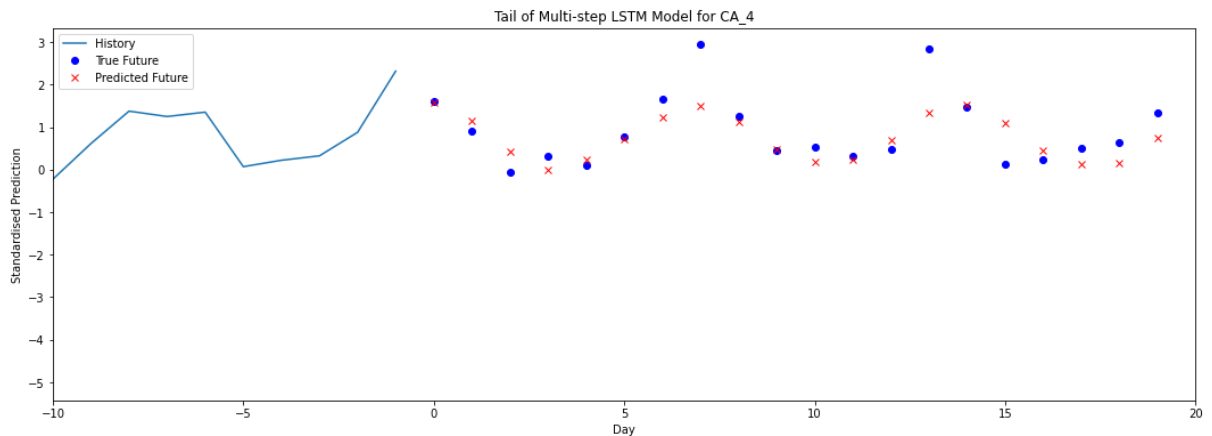
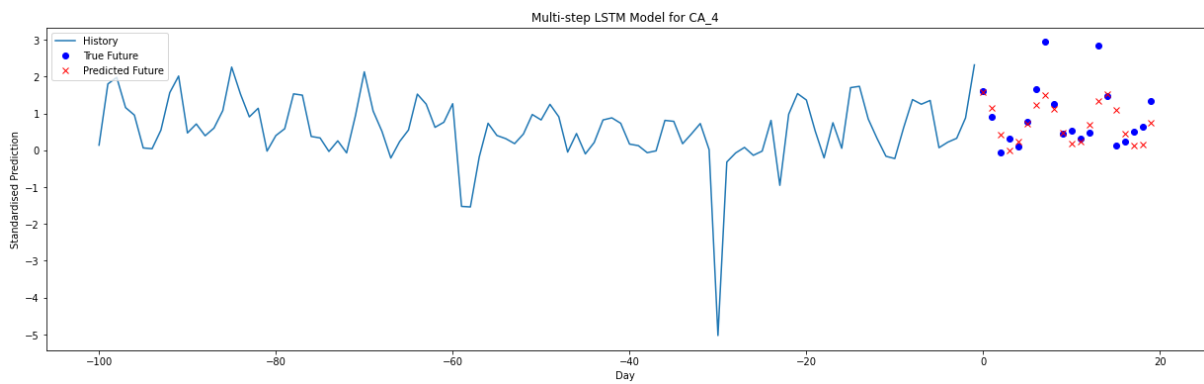
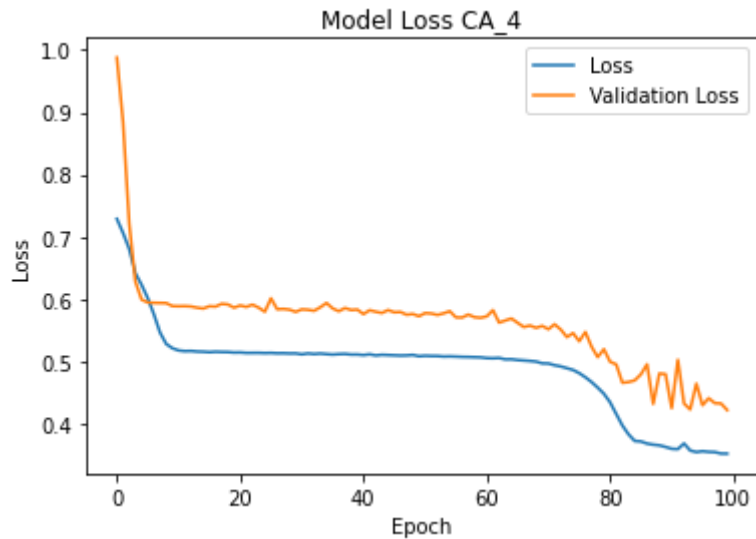
Epoch 10/100

50/50 [=====] - 5s 93ms/step - loss: 0.5213 - val_loss: 0.5890
Epoch 11/100
50/50 [=====] - 5s 91ms/step - loss: 0.5177 - val_loss: 0.5887
Epoch 12/100
50/50 [=====] - 5s 92ms/step - loss: 0.5166 - val_loss: 0.5889
Epoch 13/100
50/50 [=====] - 5s 93ms/step - loss: 0.5169 - val_loss: 0.5884
Epoch 14/100
50/50 [=====] - 5s 93ms/step - loss: 0.5160 - val_loss: 0.5864
Epoch 15/100
50/50 [=====] - 5s 94ms/step - loss: 0.5157 - val_loss: 0.5850
Epoch 16/100
50/50 [=====] - 5s 95ms/step - loss: 0.5150 - val_loss: 0.5887
Epoch 17/100
50/50 [=====] - 5s 95ms/step - loss: 0.5156 - val_loss: 0.5881
Epoch 18/100
50/50 [=====] - 5s 96ms/step - loss: 0.5153 - val_loss: 0.5926
Epoch 19/100
50/50 [=====] - 5s 96ms/step - loss: 0.5151 - val_loss: 0.5916
Epoch 20/100
50/50 [=====] - 5s 96ms/step - loss: 0.5144 - val_loss: 0.5864
Epoch 21/100
50/50 [=====] - 5s 97ms/step - loss: 0.5145 - val_loss: 0.5899
Epoch 22/100
50/50 [=====] - 5s 96ms/step - loss: 0.5138 - val_loss: 0.5876
Epoch 23/100
50/50 [=====] - 5s 96ms/step - loss: 0.5138 - val_loss: 0.5912
Epoch 24/100
50/50 [=====] - 5s 96ms/step - loss: 0.5139 - val_loss: 0.5864
Epoch 25/100
50/50 [=====] - 5s 97ms/step - loss: 0.5135 - val_loss: 0.5798
Epoch 26/100
50/50 [=====] - 5s 95ms/step - loss: 0.5137 - val_loss: 0.6014
Epoch 27/100
50/50 [=====] - 5s 96ms/step - loss: 0.5132 - val_loss: 0.5839
Epoch 28/100
50/50 [=====] - 5s 95ms/step - loss: 0.5133 - val_loss: 0.5843
Epoch 29/100
50/50 [=====] - 5s 98ms/step - loss: 0.5129 - val_loss: 0.5832
Epoch 30/100
50/50 [=====] - 5s 98ms/step - loss: 0.5130 - val_loss: 0.5796
Epoch 31/100
50/50 [=====] - 5s 96ms/step - loss: 0.5115 - val_loss: 0.5836
Epoch 32/100
50/50 [=====] - 5s 96ms/step - loss: 0.5129 - val_loss: 0.5830
Epoch 33/100
50/50 [=====] - 5s 95ms/step - loss: 0.5120 - val_loss: 0.5814
Epoch 34/100

50/50 [=====] - 5s 95ms/step - loss: 0.5127 - val_loss: 0.5870
Epoch 35/100
50/50 [=====] - 5s 95ms/step - loss: 0.5119 - val_loss: 0.5939
Epoch 36/100
50/50 [=====] - 5s 94ms/step - loss: 0.5112 - val_loss: 0.5852
Epoch 37/100
50/50 [=====] - 5s 95ms/step - loss: 0.5118 - val_loss: 0.5806
Epoch 38/100
50/50 [=====] - 5s 95ms/step - loss: 0.5122 - val_loss: 0.5858
Epoch 39/100
50/50 [=====] - 5s 96ms/step - loss: 0.5111 - val_loss: 0.5826
Epoch 40/100
50/50 [=====] - 5s 95ms/step - loss: 0.5112 - val_loss: 0.5833
Epoch 41/100
50/50 [=====] - 5s 95ms/step - loss: 0.5103 - val_loss: 0.5761
Epoch 42/100
50/50 [=====] - 5s 95ms/step - loss: 0.5116 - val_loss: 0.5823
Epoch 43/100
50/50 [=====] - 5s 96ms/step - loss: 0.5097 - val_loss: 0.5798
Epoch 44/100
50/50 [=====] - 5s 94ms/step - loss: 0.5107 - val_loss: 0.5779
Epoch 45/100
50/50 [=====] - 5s 95ms/step - loss: 0.5103 - val_loss: 0.5825
Epoch 46/100
50/50 [=====] - 5s 94ms/step - loss: 0.5099 - val_loss: 0.5790
Epoch 47/100
50/50 [=====] - 5s 96ms/step - loss: 0.5095 - val_loss: 0.5795
Epoch 48/100
50/50 [=====] - 5s 95ms/step - loss: 0.5098 - val_loss: 0.5750
Epoch 49/100
50/50 [=====] - 5s 95ms/step - loss: 0.5105 - val_loss: 0.5762
Epoch 50/100
50/50 [=====] - 5s 96ms/step - loss: 0.5084 - val_loss: 0.5726
Epoch 51/100
50/50 [=====] - 5s 95ms/step - loss: 0.5092 - val_loss: 0.5777
Epoch 52/100
50/50 [=====] - 5s 96ms/step - loss: 0.5088 - val_loss: 0.5770
Epoch 53/100
50/50 [=====] - 5s 95ms/step - loss: 0.5088 - val_loss: 0.5747
Epoch 54/100
50/50 [=====] - 6s 116ms/step - loss: 0.5080 - val_loss: 0.5773
Epoch 55/100
50/50 [=====] - 6s 122ms/step - loss: 0.5082 - val_loss: 0.5807
Epoch 56/100
50/50 [=====] - 5s 95ms/step - loss: 0.5078 - val_loss: 0.5708
Epoch 57/100
50/50 [=====] - 5s 96ms/step - loss: 0.5074 - val_loss: 0.5705
Epoch 58/100

50/50 [=====] - 5s 95ms/step - loss: 0.5072 - val_loss: 0.5753
Epoch 59/100
50/50 [=====] - 5s 95ms/step - loss: 0.5069 - val_loss: 0.5711
Epoch 60/100
50/50 [=====] - 5s 96ms/step - loss: 0.5066 - val_loss: 0.5702
Epoch 61/100
50/50 [=====] - 5s 96ms/step - loss: 0.5054 - val_loss: 0.5724
Epoch 62/100
50/50 [=====] - 5s 96ms/step - loss: 0.5052 - val_loss: 0.5824
Epoch 63/100
50/50 [=====] - 5s 95ms/step - loss: 0.5057 - val_loss: 0.5624
Epoch 64/100
50/50 [=====] - 5s 96ms/step - loss: 0.5034 - val_loss: 0.5657
Epoch 65/100
50/50 [=====] - 5s 95ms/step - loss: 0.5036 - val_loss: 0.5690
Epoch 66/100
50/50 [=====] - 5s 96ms/step - loss: 0.5024 - val_loss: 0.5621
Epoch 67/100
50/50 [=====] - 5s 95ms/step - loss: 0.5016 - val_loss: 0.5554
Epoch 68/100
50/50 [=====] - 5s 96ms/step - loss: 0.5008 - val_loss: 0.5576
Epoch 69/100
50/50 [=====] - 5s 94ms/step - loss: 0.4998 - val_loss: 0.5540
Epoch 70/100
50/50 [=====] - 5s 96ms/step - loss: 0.4970 - val_loss: 0.5570
Epoch 71/100
50/50 [=====] - 5s 94ms/step - loss: 0.4968 - val_loss: 0.5518
Epoch 72/100
50/50 [=====] - 5s 96ms/step - loss: 0.4940 - val_loss: 0.5597
Epoch 73/100
50/50 [=====] - 5s 96ms/step - loss: 0.4921 - val_loss: 0.5513
Epoch 74/100
50/50 [=====] - 5s 95ms/step - loss: 0.4893 - val_loss: 0.5392
Epoch 75/100
50/50 [=====] - 5s 94ms/step - loss: 0.4864 - val_loss: 0.5455
Epoch 76/100
50/50 [=====] - 5s 94ms/step - loss: 0.4813 - val_loss: 0.5325
Epoch 77/100
50/50 [=====] - 5s 95ms/step - loss: 0.4747 - val_loss: 0.5473
Epoch 78/100
50/50 [=====] - 5s 95ms/step - loss: 0.4670 - val_loss: 0.5237
Epoch 79/100
50/50 [=====] - 5s 95ms/step - loss: 0.4580 - val_loss: 0.5070
Epoch 80/100
50/50 [=====] - 5s 95ms/step - loss: 0.4482 - val_loss: 0.5198
Epoch 81/100
50/50 [=====] - 5s 96ms/step - loss: 0.4346 - val_loss: 0.4996
Epoch 82/100

50/50 [=====] - 5s 95ms/step - loss: 0.4158 - val_loss: 0.4953
Epoch 83/100
50/50 [=====] - 5s 95ms/step - loss: 0.3973 - val_loss: 0.4659
Epoch 84/100
50/50 [=====] - 5s 95ms/step - loss: 0.3830 - val_loss: 0.4671
Epoch 85/100
50/50 [=====] - 5s 96ms/step - loss: 0.3725 - val_loss: 0.4696
Epoch 86/100
50/50 [=====] - 5s 95ms/step - loss: 0.3717 - val_loss: 0.4793
Epoch 87/100
50/50 [=====] - 5s 95ms/step - loss: 0.3683 - val_loss: 0.4955
Epoch 88/100
50/50 [=====] - 5s 95ms/step - loss: 0.3665 - val_loss: 0.4320
Epoch 89/100
50/50 [=====] - 5s 94ms/step - loss: 0.3654 - val_loss: 0.4807
Epoch 90/100
50/50 [=====] - 5s 95ms/step - loss: 0.3628 - val_loss: 0.4796
Epoch 91/100
50/50 [=====] - 5s 95ms/step - loss: 0.3599 - val_loss: 0.4251
Epoch 92/100
50/50 [=====] - 5s 97ms/step - loss: 0.3594 - val_loss: 0.5028
Epoch 93/100
50/50 [=====] - 5s 97ms/step - loss: 0.3684 - val_loss: 0.4325
Epoch 94/100
50/50 [=====] - 5s 95ms/step - loss: 0.3571 - val_loss: 0.4229
Epoch 95/100
50/50 [=====] - 5s 94ms/step - loss: 0.3546 - val_loss: 0.4644
Epoch 96/100
50/50 [=====] - 5s 94ms/step - loss: 0.3560 - val_loss: 0.4298
Epoch 97/100
50/50 [=====] - 5s 96ms/step - loss: 0.3549 - val_loss: 0.4410
Epoch 98/100
50/50 [=====] - 5s 95ms/step - loss: 0.3546 - val_loss: 0.4331
Epoch 99/100
50/50 [=====] - 5s 95ms/step - loss: 0.3522 - val_loss: 0.4326
Epoch 100/100
50/50 [=====] - 5s 94ms/step - loss: 0.3521 - val_loss: 0.4221



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: [2776.3396 2595.3416 2285.6963 2110.8235 2204.5032 2409.6284 2624.5366

2744.2756 2585.8867 2307.919 2191.2073 2207.6086 2402.7026 2669.2236 2752.8933 2572.0632 2304.797 2164.7979 2175.6118 2423.7385]

CA_4 - Model Percentage Error: [0.3825045 4.35631495 9.46821308 5.72472147 2.39215856 0.91988413

6.46697715 17.90979256 2.16092627 0.3879489 6.15814666 1.62171825 3.74363716 19.13893872 0.94951634 18.74714831 4.43122425 6.81025176 8.70281929 9.4606453]%

CA_4 - Model Mean Percentage Error: 6.49667438020027%

=====
=====

Training Model for TX_1...

Epoch 1/100

50/50 [=====] - 5s 105ms/step - loss: 0.7549 - val_loss: 0.7686

Epoch 2/100

50/50 [=====] - 5s 93ms/step - loss: 0.7494 - val_loss: 0.7717

Epoch 3/100

50/50 [=====] - 5s 93ms/step - loss: 0.7480 - val_loss: 0.7699

Epoch 4/100

50/50 [=====] - 5s 92ms/step - loss: 0.7481 - val_loss: 0.7732

Epoch 5/100

50/50 [=====] - 5s 93ms/step - loss: 0.7438 - val_loss: 0.7736

Epoch 6/100

50/50 [=====] - 5s 92ms/step - loss: 0.7378 - val_loss: 0.7713

Epoch 7/100

50/50 [=====] - 5s 93ms/step - loss: 0.7300 - val_loss: 0.7648

Epoch 8/100

50/50 [=====] - 5s 93ms/step - loss: 0.7196 - val_loss: 0.7521

Epoch 9/100

50/50 [=====] - 5s 94ms/step - loss: 0.7124 - val_loss: 0.7442

Epoch 10/100

50/50 [=====] - 5s 94ms/step - loss: 0.7093 - val_loss: 0.7370

Epoch 11/100

50/50 [=====] - 5s 93ms/step - loss: 0.7060 - val_loss: 0.7314

Epoch 12/100

50/50 [=====] - 5s 93ms/step - loss: 0.7044 - val_loss: 0.7269

Epoch 13/100

50/50 [=====] - 5s 94ms/step - loss: 0.7036 - val_loss: 0.7241

Epoch 14/100

50/50 [=====] - 5s 94ms/step - loss: 0.7029 - val_loss: 0.7214

Epoch 15/100

50/50 [=====] - 5s 93ms/step - loss: 0.7021 - val_loss: 0.7197

Epoch 16/100

50/50 [=====] - 5s 94ms/step - loss: 0.7014 - val_loss: 0.7179

Epoch 17/100

50/50 [=====] - 5s 95ms/step - loss: 0.7005 - val_loss: 0.7171

Epoch 18/100

50/50 [=====] - 5s 93ms/step - loss: 0.7004 - val_loss: 0.7156

Epoch 19/100

50/50 [=====] - 5s 93ms/step - loss: 0.6997 - val_loss: 0.7148

Epoch 20/100

50/50 [=====] - 5s 93ms/step - loss: 0.6988 - val_loss: 0.7132

Epoch 21/100

50/50 [=====] - 5s 93ms/step - loss: 0.6990 - val_loss: 0.7122

Epoch 22/100
50/50 [=====] - 5s 94ms/step - loss: 0.6977 - val_loss: 0.7106
Epoch 23/100
50/50 [=====] - 5s 94ms/step - loss: 0.6975 - val_loss: 0.7094
Epoch 24/100
50/50 [=====] - 5s 94ms/step - loss: 0.6964 - val_loss: 0.7081
Epoch 25/100
50/50 [=====] - 5s 94ms/step - loss: 0.6962 - val_loss: 0.7068
Epoch 26/100
50/50 [=====] - 5s 94ms/step - loss: 0.6957 - val_loss: 0.7060
Epoch 27/100
50/50 [=====] - 5s 94ms/step - loss: 0.6949 - val_loss: 0.7041
Epoch 28/100
50/50 [=====] - 5s 94ms/step - loss: 0.6942 - val_loss: 0.7042
Epoch 29/100
50/50 [=====] - 5s 93ms/step - loss: 0.6936 - val_loss: 0.7018
Epoch 30/100
50/50 [=====] - 5s 94ms/step - loss: 0.6927 - val_loss: 0.7008
Epoch 31/100
50/50 [=====] - 5s 93ms/step - loss: 0.6906 - val_loss: 0.7009
Epoch 32/100
50/50 [=====] - 5s 94ms/step - loss: 0.6906 - val_loss: 0.6987
Epoch 33/100
50/50 [=====] - 5s 93ms/step - loss: 0.6890 - val_loss: 0.7006
Epoch 34/100
50/50 [=====] - 5s 94ms/step - loss: 0.6875 - val_loss: 0.6954
Epoch 35/100
50/50 [=====] - 5s 93ms/step - loss: 0.6864 - val_loss: 0.6929
Epoch 36/100
50/50 [=====] - 5s 94ms/step - loss: 0.6841 - val_loss: 0.6928
Epoch 37/100
50/50 [=====] - 5s 93ms/step - loss: 0.6810 - val_loss: 0.6908
Epoch 38/100
50/50 [=====] - 5s 93ms/step - loss: 0.6802 - val_loss: 0.6896
Epoch 39/100
50/50 [=====] - 5s 94ms/step - loss: 0.6759 - val_loss: 0.6816
Epoch 40/100
50/50 [=====] - 5s 94ms/step - loss: 0.6712 - val_loss: 0.6765
Epoch 41/100
50/50 [=====] - 5s 94ms/step - loss: 0.6650 - val_loss: 0.6649
Epoch 42/100
50/50 [=====] - 5s 93ms/step - loss: 0.6522 - val_loss: 0.6473
Epoch 43/100
50/50 [=====] - 5s 93ms/step - loss: 0.7044 - val_loss: 0.6787
Epoch 44/100
50/50 [=====] - 5s 93ms/step - loss: 0.6640 - val_loss: 0.6563
Epoch 45/100
50/50 [=====] - 5s 94ms/step - loss: 0.6325 - val_loss: 0.6192

Epoch 46/100
50/50 [=====] - 5s 93ms/step - loss: 0.5736 - val_loss: 0.5540
Epoch 47/100
50/50 [=====] - 5s 93ms/step - loss: 0.5242 - val_loss: 0.5041
Epoch 48/100
50/50 [=====] - 5s 94ms/step - loss: 0.5014 - val_loss: 0.5363
Epoch 49/100
50/50 [=====] - 5s 94ms/step - loss: 0.4872 - val_loss: 0.4774
Epoch 50/100
50/50 [=====] - 5s 93ms/step - loss: 0.4759 - val_loss: 0.4728
Epoch 51/100
50/50 [=====] - 5s 94ms/step - loss: 0.4686 - val_loss: 0.4507
Epoch 52/100
50/50 [=====] - 5s 93ms/step - loss: 0.4604 - val_loss: 0.4454
Epoch 53/100
50/50 [=====] - 5s 94ms/step - loss: 0.4600 - val_loss: 0.4730
Epoch 54/100
50/50 [=====] - 5s 93ms/step - loss: 0.4510 - val_loss: 0.4591
Epoch 55/100
50/50 [=====] - 5s 93ms/step - loss: 0.4507 - val_loss: 0.4972
Epoch 56/100
50/50 [=====] - 5s 94ms/step - loss: 0.4465 - val_loss: 0.6392
Epoch 57/100
50/50 [=====] - 5s 95ms/step - loss: 0.5389 - val_loss: 0.4596
Epoch 58/100
50/50 [=====] - 5s 95ms/step - loss: 0.4428 - val_loss: 0.4521
Epoch 59/100
50/50 [=====] - 5s 93ms/step - loss: 0.4356 - val_loss: 0.4305
Epoch 60/100
50/50 [=====] - 5s 94ms/step - loss: 0.4343 - val_loss: 0.4436
Epoch 61/100
50/50 [=====] - 5s 93ms/step - loss: 0.4719 - val_loss: 0.4793
Epoch 62/100
50/50 [=====] - 5s 94ms/step - loss: 0.4310 - val_loss: 0.4423
Epoch 63/100
50/50 [=====] - 5s 92ms/step - loss: 0.4354 - val_loss: 0.4316
Epoch 64/100
50/50 [=====] - 5s 93ms/step - loss: 0.4181 - val_loss: 0.3946
Epoch 65/100
50/50 [=====] - 5s 92ms/step - loss: 0.4367 - val_loss: 0.4170
Epoch 66/100
50/50 [=====] - 5s 93ms/step - loss: 0.4096 - val_loss: 0.4343
Epoch 67/100
50/50 [=====] - 5s 93ms/step - loss: 0.4840 - val_loss: 0.5933
Epoch 68/100
50/50 [=====] - 5s 93ms/step - loss: 0.4533 - val_loss: 0.3838
Epoch 69/100
50/50 [=====] - 5s 92ms/step - loss: 0.4050 - val_loss: 0.3804

Epoch 70/100
50/50 [=====] - 5s 93ms/step - loss: 0.3990 - val_loss: 0.4444
Epoch 71/100
50/50 [=====] - 5s 95ms/step - loss: 0.3956 - val_loss: 0.4040
Epoch 72/100
50/50 [=====] - 5s 93ms/step - loss: 0.4226 - val_loss: 0.3834
Epoch 73/100
50/50 [=====] - 5s 94ms/step - loss: 0.3896 - val_loss: 0.3797
Epoch 74/100
50/50 [=====] - 5s 93ms/step - loss: 0.3883 - val_loss: 0.3973
Epoch 75/100
50/50 [=====] - 5s 94ms/step - loss: 0.3837 - val_loss: 0.3555
Epoch 76/100
50/50 [=====] - 5s 93ms/step - loss: 0.4086 - val_loss: 0.5410
Epoch 77/100
50/50 [=====] - 5s 93ms/step - loss: 0.4134 - val_loss: 0.3658
Epoch 78/100
50/50 [=====] - 5s 93ms/step - loss: 0.3812 - val_loss: 0.3700
Epoch 79/100
50/50 [=====] - 5s 93ms/step - loss: 0.3790 - val_loss: 0.3548
Epoch 80/100
50/50 [=====] - 6s 129ms/step - loss: 0.3772 - val_loss: 0.3467
Epoch 81/100
50/50 [=====] - 5s 108ms/step - loss: 0.3775 - val_loss: 0.3619
Epoch 82/100
50/50 [=====] - 5s 92ms/step - loss: 0.3745 - val_loss: 0.3607
Epoch 83/100
50/50 [=====] - 5s 93ms/step - loss: 0.3754 - val_loss: 0.3704
Epoch 84/100
50/50 [=====] - 5s 93ms/step - loss: 0.3734 - val_loss: 0.3715
Epoch 85/100
50/50 [=====] - 5s 93ms/step - loss: 0.3915 - val_loss: 0.3778
Epoch 86/100
50/50 [=====] - 5s 93ms/step - loss: 0.3738 - val_loss: 0.3658
Epoch 87/100
50/50 [=====] - 5s 93ms/step - loss: 0.3712 - val_loss: 0.3646
Epoch 88/100
50/50 [=====] - 5s 93ms/step - loss: 0.3704 - val_loss: 0.3905
Epoch 89/100
50/50 [=====] - 5s 92ms/step - loss: 0.3688 - val_loss: 0.3695
Epoch 90/100
50/50 [=====] - 5s 92ms/step - loss: 0.3688 - val_loss: 0.3583
Epoch 91/100
50/50 [=====] - 5s 92ms/step - loss: 0.3676 - val_loss: 0.3591
Epoch 92/100
50/50 [=====] - 5s 93ms/step - loss: 0.3670 - val_loss: 0.3561
Epoch 93/100
50/50 [=====] - 5s 93ms/step - loss: 0.3656 - val_loss: 0.3535

Epoch 94/100

50/50 [=====] - 5s 93ms/step - loss: 0.3670 - val_loss: 0.3506

Epoch 95/100

50/50 [=====] - 5s 94ms/step - loss: 0.3744 - val_loss: 0.3564

Epoch 96/100

50/50 [=====] - 5s 92ms/step - loss: 0.3649 - val_loss: 0.4435

Epoch 97/100

50/50 [=====] - 5s 93ms/step - loss: 0.7152 - val_loss: 0.6930

Epoch 98/100

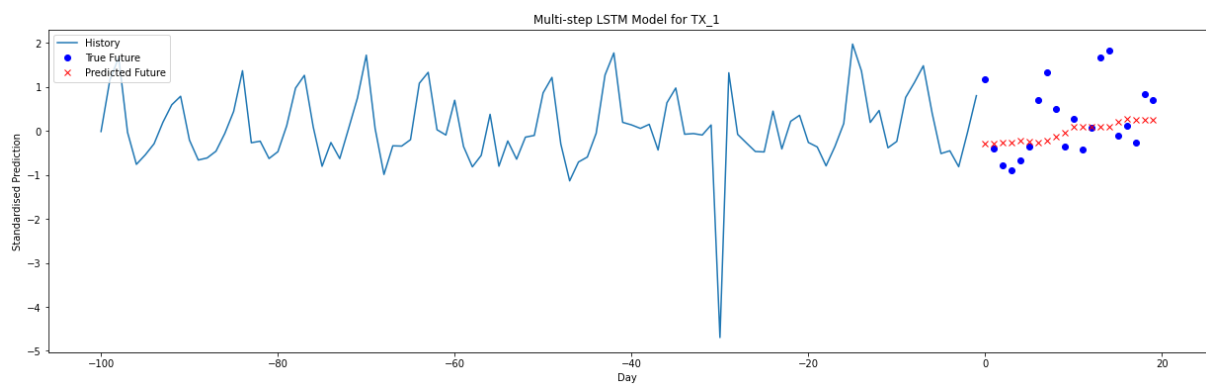
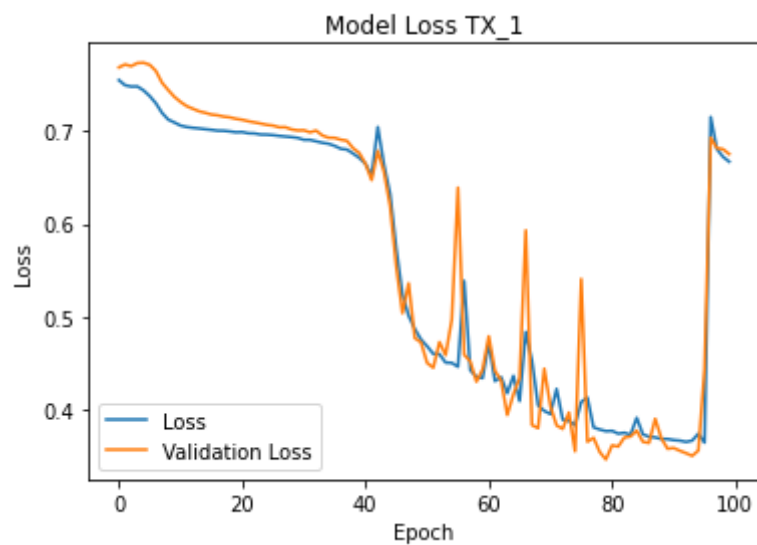
50/50 [=====] - 5s 93ms/step - loss: 0.6808 - val_loss: 0.6817

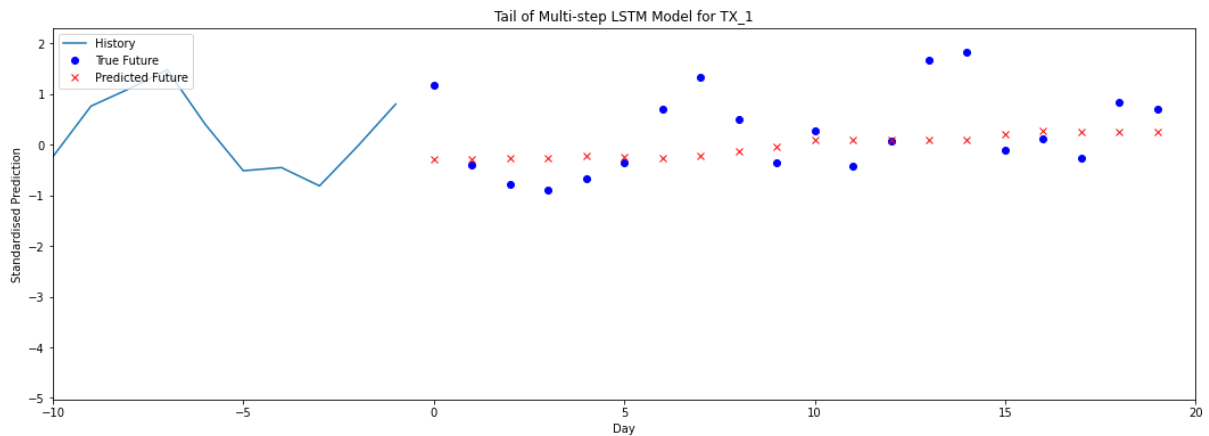
Epoch 99/100

50/50 [=====] - 5s 93ms/step - loss: 0.6724 - val_loss: 0.6806

Epoch 100/100

50/50 [=====] - 5s 93ms/step - loss: 0.6671 - val_loss: 0.6753





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

TX_1 - Model Prediction: [2734.466 2728.318 2745.9353 2740.114 2773.6235 2760.732 2744.9226

2772.0103 2828.7656 2886.7014 2962.1736 2960.7156 2959.1667 2969.4385 2971.1885 3035.7615 3071.4893 3061.6228 3060.3662 3058.6587]

TX_1 - Model Percentage Error: [24.85666215 2.3375137 13.1877701 16.2543069 11.07823529 2.51511079

17.98856865 25.62355101 11.95874183 7.67256307 3.85674833 11.93631668 0.34475239 24.6144078 26.34634416 6.70514849 3.13933035 11.53452833

10.80250041 8.5055731]%

TX_1 - Model Mean Percentage Error: 12.062933676903194%

=====
=====

Training Model for TX_2...

Epoch 1/100

50/50 [=====] - 5s 102ms/step - loss: 0.7694 - val_loss: 0.6787

Epoch 2/100

50/50 [=====] - 5s 93ms/step - loss: 0.7646 - val_loss: 0.6836

Epoch 3/100

50/50 [=====] - 5s 94ms/step - loss: 0.7607 - val_loss: 0.6874

Epoch 4/100

50/50 [=====] - 5s 94ms/step - loss: 0.7577 - val_loss: 0.6907

Epoch 5/100

50/50 [=====] - 5s 94ms/step - loss: 0.7497 - val_loss: 0.6930

Epoch 6/100

50/50 [=====] - 5s 93ms/step - loss: 0.7440 - val_loss: 0.6927

Epoch 7/100

50/50 [=====] - 5s 94ms/step - loss: 0.7343 - val_loss: 0.6925

Epoch 8/100

50/50 [=====] - 5s 94ms/step - loss: 0.7256 - val_loss: 0.6917

Epoch 9/100

50/50 [=====] - 5s 94ms/step - loss: 0.7169 - val_loss: 0.6937

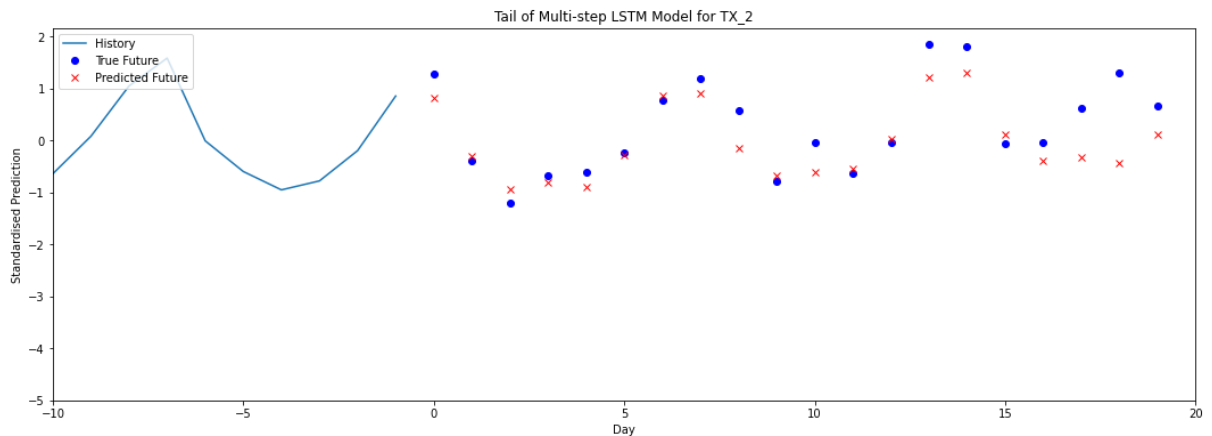
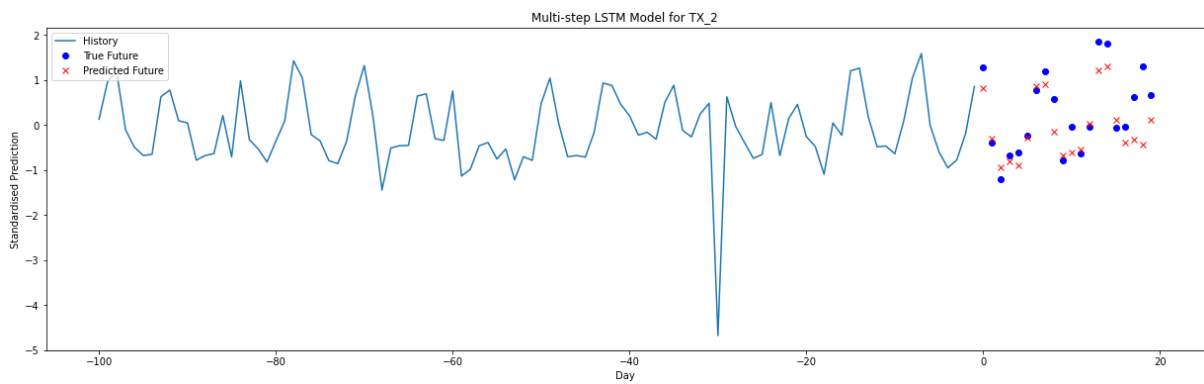
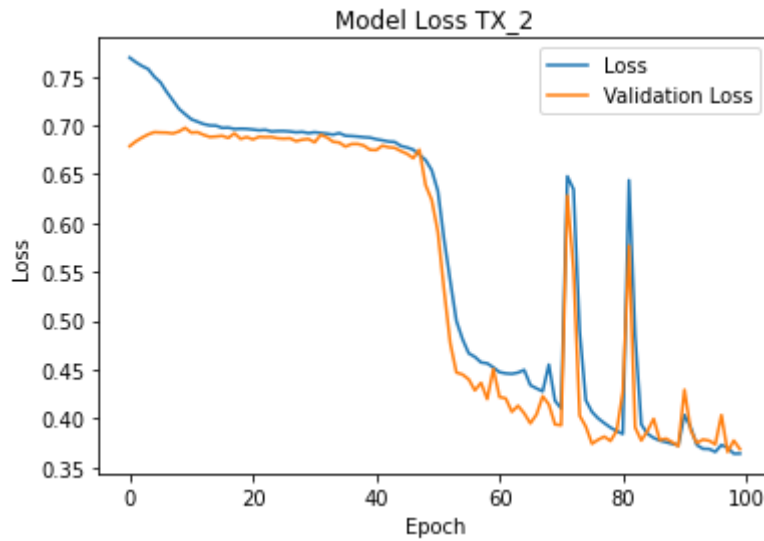
Epoch 10/100

50/50 [=====] - 5s 93ms/step - loss: 0.7114 - val_loss: 0.6974
Epoch 11/100
50/50 [=====] - 5s 94ms/step - loss: 0.7062 - val_loss: 0.6926
Epoch 12/100
50/50 [=====] - 5s 93ms/step - loss: 0.7037 - val_loss: 0.6930
Epoch 13/100
50/50 [=====] - 5s 94ms/step - loss: 0.7013 - val_loss: 0.6903
Epoch 14/100
50/50 [=====] - 5s 94ms/step - loss: 0.6999 - val_loss: 0.6881
Epoch 15/100
50/50 [=====] - 5s 93ms/step - loss: 0.6997 - val_loss: 0.6886
Epoch 16/100
50/50 [=====] - 5s 95ms/step - loss: 0.6974 - val_loss: 0.6893
Epoch 17/100
50/50 [=====] - 5s 93ms/step - loss: 0.6976 - val_loss: 0.6871
Epoch 18/100
50/50 [=====] - 5s 94ms/step - loss: 0.6963 - val_loss: 0.6918
Epoch 19/100
50/50 [=====] - 5s 93ms/step - loss: 0.6966 - val_loss: 0.6861
Epoch 20/100
50/50 [=====] - 5s 95ms/step - loss: 0.6964 - val_loss: 0.6880
Epoch 21/100
50/50 [=====] - 5s 96ms/step - loss: 0.6957 - val_loss: 0.6856
Epoch 22/100
50/50 [=====] - 5s 96ms/step - loss: 0.6949 - val_loss: 0.6883
Epoch 23/100
50/50 [=====] - 5s 94ms/step - loss: 0.6954 - val_loss: 0.6879
Epoch 24/100
50/50 [=====] - 5s 94ms/step - loss: 0.6938 - val_loss: 0.6881
Epoch 25/100
50/50 [=====] - 5s 93ms/step - loss: 0.6941 - val_loss: 0.6868
Epoch 26/100
50/50 [=====] - 5s 94ms/step - loss: 0.6942 - val_loss: 0.6864
Epoch 27/100
50/50 [=====] - 5s 94ms/step - loss: 0.6937 - val_loss: 0.6868
Epoch 28/100
50/50 [=====] - 5s 94ms/step - loss: 0.6929 - val_loss: 0.6838
Epoch 29/100
50/50 [=====] - 5s 94ms/step - loss: 0.6933 - val_loss: 0.6854
Epoch 30/100
50/50 [=====] - 5s 94ms/step - loss: 0.6920 - val_loss: 0.6860
Epoch 31/100
50/50 [=====] - 5s 94ms/step - loss: 0.6930 - val_loss: 0.6826
Epoch 32/100
50/50 [=====] - 5s 94ms/step - loss: 0.6922 - val_loss: 0.6902
Epoch 33/100
50/50 [=====] - 5s 94ms/step - loss: 0.6915 - val_loss: 0.6877
Epoch 34/100

50/50 [=====] - 5s 94ms/step - loss: 0.6905 - val_loss: 0.6832
Epoch 35/100
50/50 [=====] - 5s 95ms/step - loss: 0.6921 - val_loss: 0.6824
Epoch 36/100
50/50 [=====] - 5s 93ms/step - loss: 0.6894 - val_loss: 0.6783
Epoch 37/100
50/50 [=====] - 5s 94ms/step - loss: 0.6891 - val_loss: 0.6809
Epoch 38/100
50/50 [=====] - 5s 96ms/step - loss: 0.6885 - val_loss: 0.6809
Epoch 39/100
50/50 [=====] - 5s 95ms/step - loss: 0.6879 - val_loss: 0.6793
Epoch 40/100
50/50 [=====] - 5s 94ms/step - loss: 0.6874 - val_loss: 0.6750
Epoch 41/100
50/50 [=====] - 5s 96ms/step - loss: 0.6858 - val_loss: 0.6747
Epoch 42/100
50/50 [=====] - 5s 94ms/step - loss: 0.6847 - val_loss: 0.6791
Epoch 43/100
50/50 [=====] - 5s 95ms/step - loss: 0.6834 - val_loss: 0.6776
Epoch 44/100
50/50 [=====] - 5s 96ms/step - loss: 0.6830 - val_loss: 0.6769
Epoch 45/100
50/50 [=====] - 5s 94ms/step - loss: 0.6789 - val_loss: 0.6737
Epoch 46/100
50/50 [=====] - 5s 95ms/step - loss: 0.6774 - val_loss: 0.6709
Epoch 47/100
50/50 [=====] - 5s 95ms/step - loss: 0.6751 - val_loss: 0.6664
Epoch 48/100
50/50 [=====] - 5s 94ms/step - loss: 0.6698 - val_loss: 0.6750
Epoch 49/100
50/50 [=====] - 5s 94ms/step - loss: 0.6646 - val_loss: 0.6389
Epoch 50/100
50/50 [=====] - 5s 93ms/step - loss: 0.6541 - val_loss: 0.6236
Epoch 51/100
50/50 [=====] - 5s 94ms/step - loss: 0.6327 - val_loss: 0.5908
Epoch 52/100
50/50 [=====] - 5s 95ms/step - loss: 0.5833 - val_loss: 0.5317
Epoch 53/100
50/50 [=====] - 5s 95ms/step - loss: 0.5410 - val_loss: 0.4771
Epoch 54/100
50/50 [=====] - 5s 93ms/step - loss: 0.4998 - val_loss: 0.4470
Epoch 55/100
50/50 [=====] - 5s 93ms/step - loss: 0.4811 - val_loss: 0.4449
Epoch 56/100
50/50 [=====] - 5s 92ms/step - loss: 0.4666 - val_loss: 0.4400
Epoch 57/100
50/50 [=====] - 5s 94ms/step - loss: 0.4630 - val_loss: 0.4287
Epoch 58/100

50/50 [=====] - 5s 93ms/step - loss: 0.4573 - val_loss: 0.4364
Epoch 59/100
50/50 [=====] - 5s 95ms/step - loss: 0.4564 - val_loss: 0.4198
Epoch 60/100
50/50 [=====] - 5s 94ms/step - loss: 0.4522 - val_loss: 0.4507
Epoch 61/100
50/50 [=====] - 5s 94ms/step - loss: 0.4473 - val_loss: 0.4218
Epoch 62/100
50/50 [=====] - 5s 94ms/step - loss: 0.4461 - val_loss: 0.4206
Epoch 63/100
50/50 [=====] - 5s 93ms/step - loss: 0.4456 - val_loss: 0.4068
Epoch 64/100
50/50 [=====] - 5s 95ms/step - loss: 0.4469 - val_loss: 0.4130
Epoch 65/100
50/50 [=====] - 5s 94ms/step - loss: 0.4496 - val_loss: 0.4052
Epoch 66/100
50/50 [=====] - 5s 94ms/step - loss: 0.4340 - val_loss: 0.3950
Epoch 67/100
50/50 [=====] - 5s 94ms/step - loss: 0.4307 - val_loss: 0.4040
Epoch 68/100
50/50 [=====] - 5s 94ms/step - loss: 0.4277 - val_loss: 0.4227
Epoch 69/100
50/50 [=====] - 5s 94ms/step - loss: 0.4551 - val_loss: 0.4143
Epoch 70/100
50/50 [=====] - 5s 95ms/step - loss: 0.4180 - val_loss: 0.3939
Epoch 71/100
50/50 [=====] - 5s 95ms/step - loss: 0.4102 - val_loss: 0.3930
Epoch 72/100
50/50 [=====] - 5s 95ms/step - loss: 0.6478 - val_loss: 0.6282
Epoch 73/100
50/50 [=====] - 5s 94ms/step - loss: 0.6346 - val_loss: 0.5524
Epoch 74/100
50/50 [=====] - 5s 95ms/step - loss: 0.4889 - val_loss: 0.4028
Epoch 75/100
50/50 [=====] - 5s 95ms/step - loss: 0.4185 - val_loss: 0.3916
Epoch 76/100
50/50 [=====] - 5s 95ms/step - loss: 0.4066 - val_loss: 0.3741
Epoch 77/100
50/50 [=====] - 5s 95ms/step - loss: 0.4000 - val_loss: 0.3782
Epoch 78/100
50/50 [=====] - 5s 94ms/step - loss: 0.3952 - val_loss: 0.3814
Epoch 79/100
50/50 [=====] - 5s 95ms/step - loss: 0.3906 - val_loss: 0.3770
Epoch 80/100
50/50 [=====] - 5s 94ms/step - loss: 0.3871 - val_loss: 0.3871
Epoch 81/100
50/50 [=====] - 5s 94ms/step - loss: 0.3841 - val_loss: 0.4274
Epoch 82/100

50/50 [=====] - 5s 95ms/step - loss: 0.6439 - val_loss: 0.5769
Epoch 83/100
50/50 [=====] - 5s 94ms/step - loss: 0.4847 - val_loss: 0.3907
Epoch 84/100
50/50 [=====] - 5s 95ms/step - loss: 0.3938 - val_loss: 0.3774
Epoch 85/100
50/50 [=====] - 5s 94ms/step - loss: 0.3843 - val_loss: 0.3871
Epoch 86/100
50/50 [=====] - 5s 95ms/step - loss: 0.3801 - val_loss: 0.3996
Epoch 87/100
50/50 [=====] - 5s 95ms/step - loss: 0.3773 - val_loss: 0.3778
Epoch 88/100
50/50 [=====] - 5s 94ms/step - loss: 0.3757 - val_loss: 0.3793
Epoch 89/100
50/50 [=====] - 5s 94ms/step - loss: 0.3740 - val_loss: 0.3758
Epoch 90/100
50/50 [=====] - 5s 94ms/step - loss: 0.3725 - val_loss: 0.3716
Epoch 91/100
50/50 [=====] - 5s 94ms/step - loss: 0.4035 - val_loss: 0.4293
Epoch 92/100
50/50 [=====] - 5s 94ms/step - loss: 0.3910 - val_loss: 0.3882
Epoch 93/100
50/50 [=====] - 5s 93ms/step - loss: 0.3728 - val_loss: 0.3748
Epoch 94/100
50/50 [=====] - 5s 94ms/step - loss: 0.3689 - val_loss: 0.3784
Epoch 95/100
50/50 [=====] - 5s 94ms/step - loss: 0.3687 - val_loss: 0.3772
Epoch 96/100
50/50 [=====] - 5s 94ms/step - loss: 0.3657 - val_loss: 0.3734
Epoch 97/100
50/50 [=====] - 5s 96ms/step - loss: 0.3729 - val_loss: 0.4034
Epoch 98/100
50/50 [=====] - 5s 94ms/step - loss: 0.3699 - val_loss: 0.3656
Epoch 99/100
50/50 [=====] - 5s 95ms/step - loss: 0.3639 - val_loss: 0.3773
Epoch 100/100
50/50 [=====] - 5s 94ms/step - loss: 0.3640 - val_loss: 0.3685



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: [4416.4785 3520.851 3000.1475 3103.0544 3040.4478 3538.4893 4458.7793

4490.6587 3644.9397 3221.7637 3265.595 3322.7922 3781.229 4729.461

4812.1426 3847.5657 3443.0012 3499.242 3415.7466 3859.7114]

TX_2 - Model Percentage Error: [7.87487452 2.32057757 7.22471269 3.5119887 6.84902715 0.6600433

1.70573214 4.69739619 13.72923793 3.22857007 12.26235973 2.39729542

1.18354305 9.74311188 7.63641885 3.59627555 7.86724055 17.8388837

28.8237845 10.13477472]%

TX_2 - Model Mean Percentage Error: 7.664292409606475%

=====
=====

Training Model for TX_3...

Epoch 1/100

50/50 [=====] - 5s 102ms/step - loss: 0.7602 - val_loss: 1.1079

Epoch 2/100

50/50 [=====] - 5s 93ms/step - loss: 0.7578 - val_loss: 1.0997

Epoch 3/100

50/50 [=====] - 5s 94ms/step - loss: 0.7559 - val_loss: 1.0894

Epoch 4/100

50/50 [=====] - 5s 93ms/step - loss: 0.7515 - val_loss: 1.0719

Epoch 5/100

50/50 [=====] - 6s 126ms/step - loss: 0.7465 - val_loss: 1.0367

Epoch 6/100

50/50 [=====] - 6s 111ms/step - loss: 0.7285 - val_loss: 0.9048

Epoch 7/100

50/50 [=====] - 5s 94ms/step - loss: 0.7068 - val_loss: 0.7920

Epoch 8/100

50/50 [=====] - 5s 94ms/step - loss: 0.6800 - val_loss: 0.7152

Epoch 9/100

50/50 [=====] - 5s 93ms/step - loss: 0.6606 - val_loss: 0.6732

Epoch 10/100

50/50 [=====] - 5s 94ms/step - loss: 0.6490 - val_loss: 0.6618

Epoch 11/100

50/50 [=====] - 5s 93ms/step - loss: 0.6424 - val_loss: 0.6518

Epoch 12/100

50/50 [=====] - 5s 93ms/step - loss: 0.6377 - val_loss: 0.6484

Epoch 13/100

50/50 [=====] - 5s 95ms/step - loss: 0.6368 - val_loss: 0.6450

Epoch 14/100

50/50 [=====] - 5s 94ms/step - loss: 0.6352 - val_loss: 0.6413

Epoch 15/100

50/50 [=====] - 5s 93ms/step - loss: 0.6349 - val_loss: 0.6417

Epoch 16/100

50/50 [=====] - 5s 93ms/step - loss: 0.6342 - val_loss: 0.6448

Epoch 17/100

50/50 [=====] - 5s 94ms/step - loss: 0.6347 - val_loss: 0.6467

Epoch 18/100

50/50 [=====] - 5s 97ms/step - loss: 0.6343 - val_loss: 0.6384

Epoch 19/100

50/50 [=====] - 5s 95ms/step - loss: 0.6333 - val_loss: 0.6394

Epoch 20/100

50/50 [=====] - 5s 94ms/step - loss: 0.6337 - val_loss: 0.6452

Epoch 21/100

50/50 [=====] - 5s 95ms/step - loss: 0.6323 - val_loss: 0.6478

Epoch 22/100
50/50 [=====] - 5s 93ms/step - loss: 0.6325 - val_loss: 0.6429
Epoch 23/100
50/50 [=====] - 5s 94ms/step - loss: 0.6323 - val_loss: 0.6424
Epoch 24/100
50/50 [=====] - 5s 94ms/step - loss: 0.6312 - val_loss: 0.6468
Epoch 25/100
50/50 [=====] - 5s 94ms/step - loss: 0.6317 - val_loss: 0.6696
Epoch 26/100
50/50 [=====] - 5s 94ms/step - loss: 0.6311 - val_loss: 0.6387
Epoch 27/100
50/50 [=====] - 5s 94ms/step - loss: 0.6303 - val_loss: 0.6413
Epoch 28/100
50/50 [=====] - 5s 94ms/step - loss: 0.6303 - val_loss: 0.6473
Epoch 29/100
50/50 [=====] - 5s 94ms/step - loss: 0.6289 - val_loss: 0.6431
Epoch 30/100
50/50 [=====] - 5s 94ms/step - loss: 0.6293 - val_loss: 0.6436
Epoch 31/100
50/50 [=====] - 5s 93ms/step - loss: 0.6279 - val_loss: 0.6430
Epoch 32/100
50/50 [=====] - 5s 94ms/step - loss: 0.6284 - val_loss: 0.6524
Epoch 33/100
50/50 [=====] - 5s 94ms/step - loss: 0.6271 - val_loss: 0.6395
Epoch 34/100
50/50 [=====] - 5s 94ms/step - loss: 0.6269 - val_loss: 0.6603
Epoch 35/100
50/50 [=====] - 5s 93ms/step - loss: 0.6262 - val_loss: 0.6383
Epoch 36/100
50/50 [=====] - 5s 94ms/step - loss: 0.6252 - val_loss: 0.6377
Epoch 37/100
50/50 [=====] - 5s 94ms/step - loss: 0.6243 - val_loss: 0.6447
Epoch 38/100
50/50 [=====] - 5s 94ms/step - loss: 0.6239 - val_loss: 0.6388
Epoch 39/100
50/50 [=====] - 5s 94ms/step - loss: 0.6225 - val_loss: 0.6326
Epoch 40/100
50/50 [=====] - 5s 94ms/step - loss: 0.6216 - val_loss: 0.6341
Epoch 41/100
50/50 [=====] - 5s 94ms/step - loss: 0.6204 - val_loss: 0.6244
Epoch 42/100
50/50 [=====] - 5s 93ms/step - loss: 0.6184 - val_loss: 0.6255
Epoch 43/100
50/50 [=====] - 5s 94ms/step - loss: 0.6172 - val_loss: 0.6227
Epoch 44/100
50/50 [=====] - 5s 94ms/step - loss: 0.6157 - val_loss: 0.6212
Epoch 45/100
50/50 [=====] - 5s 93ms/step - loss: 0.6127 - val_loss: 0.6159

Epoch 46/100
50/50 [=====] - 5s 95ms/step - loss: 0.6108 - val_loss: 0.6053
Epoch 47/100
50/50 [=====] - 5s 94ms/step - loss: 0.6079 - val_loss: 0.6008
Epoch 48/100
50/50 [=====] - 5s 95ms/step - loss: 0.6029 - val_loss: 0.5959
Epoch 49/100
50/50 [=====] - 5s 96ms/step - loss: 0.5998 - val_loss: 0.5970
Epoch 50/100
50/50 [=====] - 5s 97ms/step - loss: 0.5937 - val_loss: 0.5910
Epoch 51/100
50/50 [=====] - 5s 94ms/step - loss: 0.7046 - val_loss: 1.1130
Epoch 52/100
50/50 [=====] - 5s 94ms/step - loss: 0.6858 - val_loss: 1.0522
Epoch 53/100
50/50 [=====] - 5s 94ms/step - loss: 0.6702 - val_loss: 0.9995
Epoch 54/100
50/50 [=====] - 5s 94ms/step - loss: 0.6571 - val_loss: 0.9486
Epoch 55/100
50/50 [=====] - 5s 94ms/step - loss: 0.6470 - val_loss: 0.9004
Epoch 56/100
50/50 [=====] - 5s 94ms/step - loss: 0.6355 - val_loss: 0.8548
Epoch 57/100
50/50 [=====] - 5s 94ms/step - loss: 0.6265 - val_loss: 0.8090
Epoch 58/100
50/50 [=====] - 5s 94ms/step - loss: 0.6173 - val_loss: 0.7639
Epoch 59/100
50/50 [=====] - 5s 95ms/step - loss: 0.6090 - val_loss: 0.7190
Epoch 60/100
50/50 [=====] - 5s 94ms/step - loss: 0.5996 - val_loss: 0.6782
Epoch 61/100
50/50 [=====] - 5s 94ms/step - loss: 0.5920 - val_loss: 0.6486
Epoch 62/100
50/50 [=====] - 5s 94ms/step - loss: 0.5833 - val_loss: 0.6392
Epoch 63/100
50/50 [=====] - 5s 95ms/step - loss: 0.5756 - val_loss: 0.6329
Epoch 64/100
50/50 [=====] - 5s 94ms/step - loss: 0.5671 - val_loss: 0.6238
Epoch 65/100
50/50 [=====] - 5s 94ms/step - loss: 0.5579 - val_loss: 0.6228
Epoch 66/100
50/50 [=====] - 5s 94ms/step - loss: 0.5429 - val_loss: 0.6130
Epoch 67/100
50/50 [=====] - 5s 94ms/step - loss: 0.5220 - val_loss: 0.6017
Epoch 68/100
50/50 [=====] - 5s 96ms/step - loss: 0.4992 - val_loss: 0.5808
Epoch 69/100
50/50 [=====] - 5s 94ms/step - loss: 0.4760 - val_loss: 0.5499

Epoch 70/100
50/50 [=====] - 5s 96ms/step - loss: 0.4606 - val_loss: 0.5424
Epoch 71/100
50/50 [=====] - 5s 95ms/step - loss: 0.4499 - val_loss: 0.5303
Epoch 72/100
50/50 [=====] - 5s 94ms/step - loss: 0.4435 - val_loss: 0.5162
Epoch 73/100
50/50 [=====] - 5s 94ms/step - loss: 0.4422 - val_loss: 0.5114
Epoch 74/100
50/50 [=====] - 5s 94ms/step - loss: 0.4371 - val_loss: 0.5100
Epoch 75/100
50/50 [=====] - 5s 94ms/step - loss: 0.4337 - val_loss: 0.5130
Epoch 76/100
50/50 [=====] - 5s 95ms/step - loss: 0.4330 - val_loss: 0.5094
Epoch 77/100
50/50 [=====] - 5s 93ms/step - loss: 0.4301 - val_loss: 0.5011
Epoch 78/100
50/50 [=====] - 5s 95ms/step - loss: 0.4282 - val_loss: 0.5009
Epoch 79/100
50/50 [=====] - 5s 95ms/step - loss: 0.4247 - val_loss: 0.4915
Epoch 80/100
50/50 [=====] - 5s 95ms/step - loss: 0.4233 - val_loss: 0.4877
Epoch 81/100
50/50 [=====] - 5s 96ms/step - loss: 0.4221 - val_loss: 0.4848
Epoch 82/100
50/50 [=====] - 5s 95ms/step - loss: 0.4193 - val_loss: 0.4775
Epoch 83/100
50/50 [=====] - 5s 95ms/step - loss: 0.4181 - val_loss: 0.4751
Epoch 84/100
50/50 [=====] - 5s 94ms/step - loss: 0.4151 - val_loss: 0.4871
Epoch 85/100
50/50 [=====] - 5s 95ms/step - loss: 0.4146 - val_loss: 0.4680
Epoch 86/100
50/50 [=====] - 5s 95ms/step - loss: 0.4132 - val_loss: 0.4651
Epoch 87/100
50/50 [=====] - 5s 94ms/step - loss: 0.4085 - val_loss: 0.4572
Epoch 88/100
50/50 [=====] - 5s 94ms/step - loss: 0.4081 - val_loss: 0.4669
Epoch 89/100
50/50 [=====] - 5s 94ms/step - loss: 0.4105 - val_loss: 0.4592
Epoch 90/100
50/50 [=====] - 5s 94ms/step - loss: 0.4033 - val_loss: 0.4457
Epoch 91/100
50/50 [=====] - 5s 94ms/step - loss: 0.4078 - val_loss: 0.4513
Epoch 92/100
50/50 [=====] - 5s 94ms/step - loss: 0.4124 - val_loss: 0.4550
Epoch 93/100
50/50 [=====] - 5s 94ms/step - loss: 0.4022 - val_loss: 0.4567

Epoch 94/100

50/50 [=====] - 5s 94ms/step - loss: 0.3984 - val_loss: 0.4473

Epoch 95/100

50/50 [=====] - 5s 94ms/step - loss: 0.4024 - val_loss: 0.4526

Epoch 96/100

50/50 [=====] - 5s 94ms/step - loss: 0.3966 - val_loss: 0.4509

Epoch 97/100

50/50 [=====] - 5s 94ms/step - loss: 0.4047 - val_loss: 0.4522

Epoch 98/100

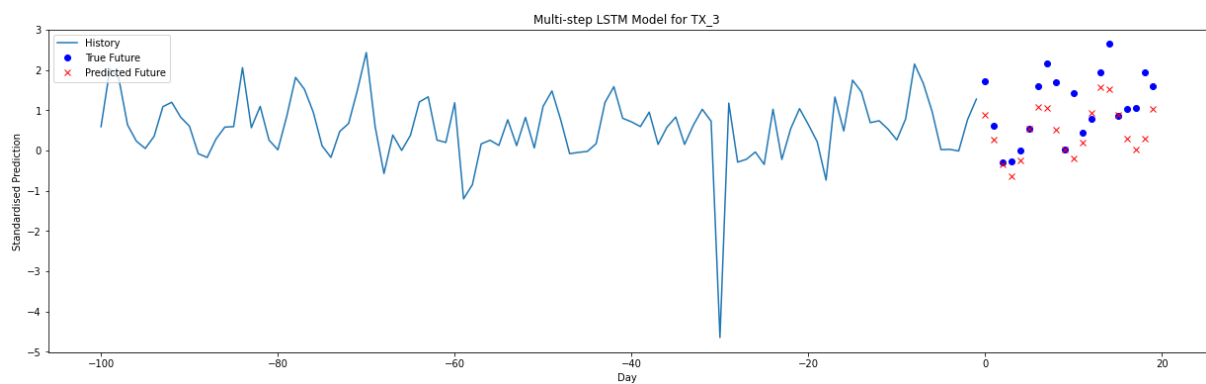
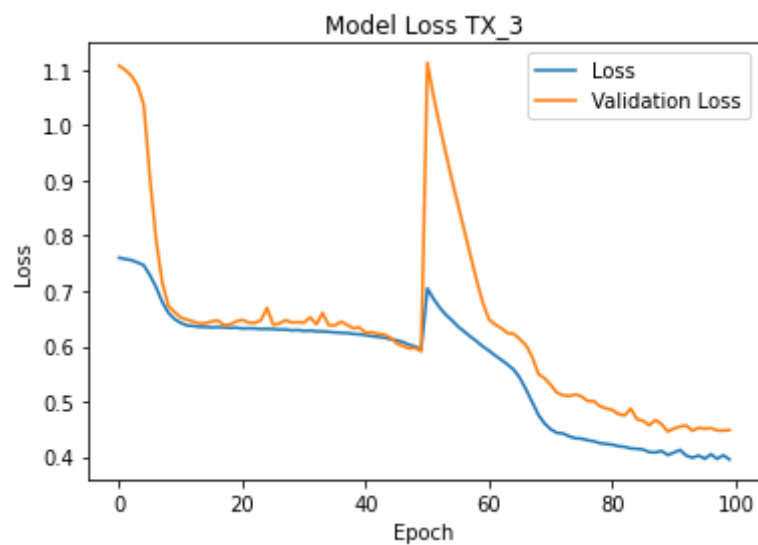
50/50 [=====] - 5s 94ms/step - loss: 0.3963 - val_loss: 0.4477

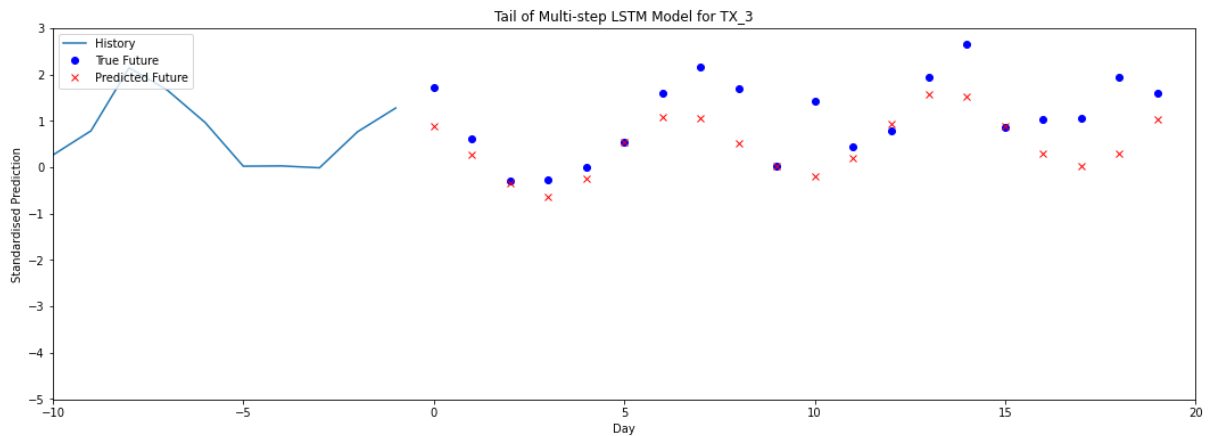
Epoch 99/100

50/50 [=====] - 5s 93ms/step - loss: 0.4029 - val_loss: 0.4477

Epoch 100/100

50/50 [=====] - 5s 94ms/step - loss: 0.3952 - val_loss: 0.4485





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: [3722.4783 3309.6758 2890.9678 2698.388 2958.0457 3495.439 3853.0828

3839.0854 3475.7454 3142.865 2994.0264 3257.3252 3757.6707 4179.68 4157.217 3726.7888 3322.1423 3139.1218 3324.969 3819.9802]

TX_3 - Model Percentage Error: [13.1479638 6.45348272 1.46667439 8.18686834 5.64447674 0.27076778

8.30359915 16.08556395 18.44802062 0.05937568 26.81431515 4.78441405 2.55651349 5.69313683 15.24532524 0.53382299 13.14660565 18.05998888

25.079563 9.00475882]%

TX_3 - Model Mean Percentage Error: 9.949261863759661%

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=====

Training Model for WL_1...

Epoch 1/100

50/50 [=====] - 5s 106ms/step - loss: 0.7944 - val_loss: 1.2728

Epoch 2/100

50/50 [=====] - 5s 92ms/step - loss: 0.7793 - val_loss: 1.1993

Epoch 3/100

50/50 [=====] - 5s 92ms/step - loss: 0.7499 - val_loss: 1.0014

Epoch 4/100

50/50 [=====] - 5s 93ms/step - loss: 0.7002 - val_loss: 0.8577

Epoch 5/100

50/50 [=====] - 5s 92ms/step - loss: 0.6698 - val_loss: 0.8248

Epoch 6/100

50/50 [=====] - 5s 92ms/step - loss: 0.6438 - val_loss: 0.8231

Epoch 7/100

50/50 [=====] - 5s 93ms/step - loss: 0.6247 - val_loss: 0.8219

Epoch 8/100

50/50 [=====] - 5s 93ms/step - loss: 0.6053 - val_loss: 0.8112

Epoch 9/100

50/50 [=====] - 5s 91ms/step - loss: 0.5890 - val_loss: 0.8202

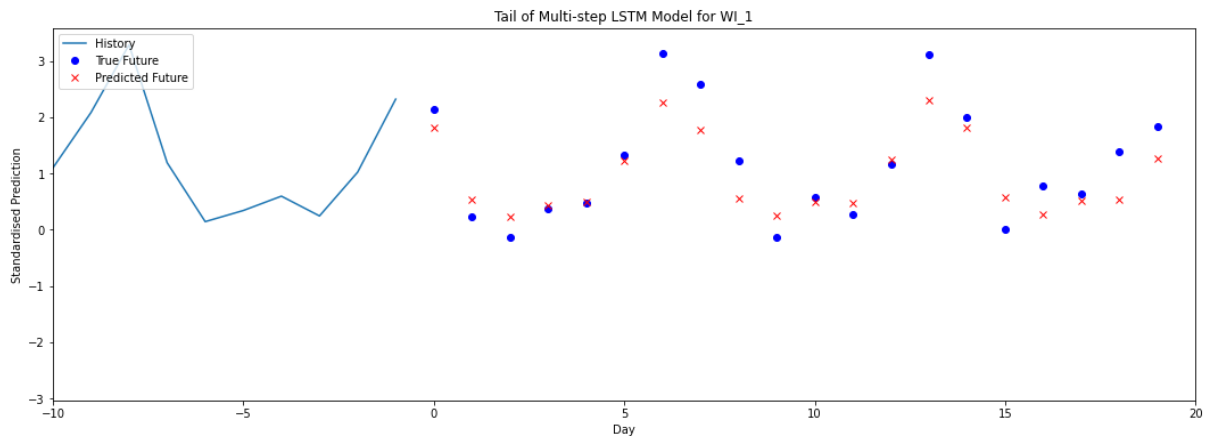
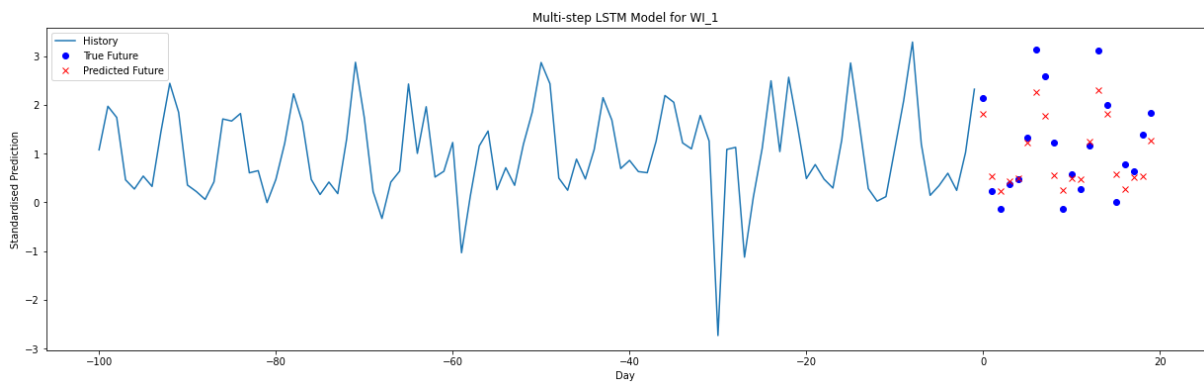
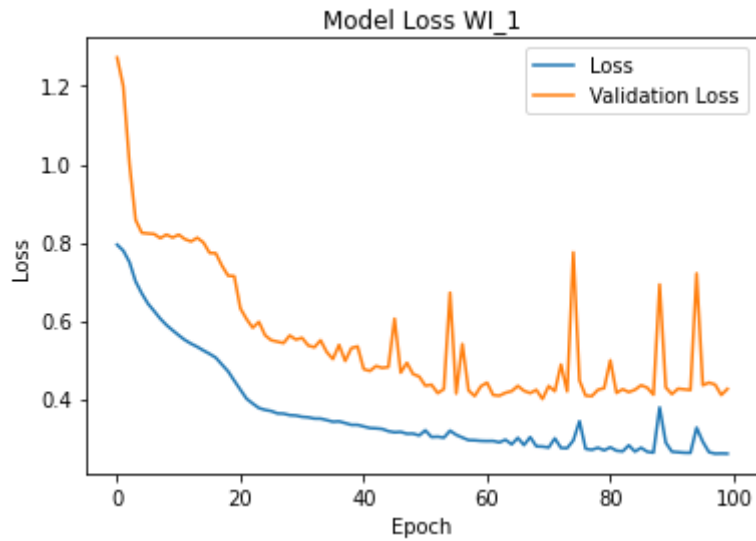
Epoch 10/100

50/50 [=====] - 5s 92ms/step - loss: 0.5757 - val_loss: 0.8127
Epoch 11/100
50/50 [=====] - 5s 92ms/step - loss: 0.5628 - val_loss: 0.8201
Epoch 12/100
50/50 [=====] - 5s 93ms/step - loss: 0.5507 - val_loss: 0.8085
Epoch 13/100
50/50 [=====] - 5s 94ms/step - loss: 0.5414 - val_loss: 0.8028
Epoch 14/100
50/50 [=====] - 5s 93ms/step - loss: 0.5333 - val_loss: 0.8122
Epoch 15/100
50/50 [=====] - 5s 92ms/step - loss: 0.5240 - val_loss: 0.8001
Epoch 16/100
50/50 [=====] - 5s 92ms/step - loss: 0.5153 - val_loss: 0.7735
Epoch 17/100
50/50 [=====] - 5s 92ms/step - loss: 0.5057 - val_loss: 0.7726
Epoch 18/100
50/50 [=====] - 5s 94ms/step - loss: 0.4881 - val_loss: 0.7408
Epoch 19/100
50/50 [=====] - 5s 93ms/step - loss: 0.4708 - val_loss: 0.7152
Epoch 20/100
50/50 [=====] - 5s 93ms/step - loss: 0.4469 - val_loss: 0.7140
Epoch 21/100
50/50 [=====] - 5s 93ms/step - loss: 0.4236 - val_loss: 0.6314
Epoch 22/100
50/50 [=====] - 5s 92ms/step - loss: 0.4007 - val_loss: 0.6042
Epoch 23/100
50/50 [=====] - 5s 92ms/step - loss: 0.3883 - val_loss: 0.5821
Epoch 24/100
50/50 [=====] - 5s 92ms/step - loss: 0.3769 - val_loss: 0.5972
Epoch 25/100
50/50 [=====] - 5s 92ms/step - loss: 0.3721 - val_loss: 0.5629
Epoch 26/100
50/50 [=====] - 5s 92ms/step - loss: 0.3692 - val_loss: 0.5503
Epoch 27/100
50/50 [=====] - 5s 93ms/step - loss: 0.3632 - val_loss: 0.5466
Epoch 28/100
50/50 [=====] - 5s 93ms/step - loss: 0.3625 - val_loss: 0.5431
Epoch 29/100
50/50 [=====] - 5s 92ms/step - loss: 0.3587 - val_loss: 0.5623
Epoch 30/100
50/50 [=====] - 5s 92ms/step - loss: 0.3577 - val_loss: 0.5519
Epoch 31/100
50/50 [=====] - 6s 120ms/step - loss: 0.3544 - val_loss: 0.5562
Epoch 32/100
50/50 [=====] - 6s 113ms/step - loss: 0.3531 - val_loss: 0.5368
Epoch 33/100
50/50 [=====] - 5s 94ms/step - loss: 0.3500 - val_loss: 0.5322
Epoch 34/100

50/50 [=====] - 5s 93ms/step - loss: 0.3498 - val_loss: 0.5501
Epoch 35/100
50/50 [=====] - 5s 92ms/step - loss: 0.3460 - val_loss: 0.5201
Epoch 36/100
50/50 [=====] - 5s 92ms/step - loss: 0.3419 - val_loss: 0.5020
Epoch 37/100
50/50 [=====] - 5s 92ms/step - loss: 0.3428 - val_loss: 0.5383
Epoch 38/100
50/50 [=====] - 5s 92ms/step - loss: 0.3384 - val_loss: 0.4972
Epoch 39/100
50/50 [=====] - 5s 92ms/step - loss: 0.3339 - val_loss: 0.5301
Epoch 40/100
50/50 [=====] - 5s 92ms/step - loss: 0.3338 - val_loss: 0.5345
Epoch 41/100
50/50 [=====] - 5s 92ms/step - loss: 0.3298 - val_loss: 0.4763
Epoch 42/100
50/50 [=====] - 5s 92ms/step - loss: 0.3257 - val_loss: 0.4717
Epoch 43/100
50/50 [=====] - 5s 92ms/step - loss: 0.3250 - val_loss: 0.4843
Epoch 44/100
50/50 [=====] - 5s 93ms/step - loss: 0.3234 - val_loss: 0.4796
Epoch 45/100
50/50 [=====] - 5s 94ms/step - loss: 0.3177 - val_loss: 0.4816
Epoch 46/100
50/50 [=====] - 5s 94ms/step - loss: 0.3149 - val_loss: 0.6053
Epoch 47/100
50/50 [=====] - 5s 93ms/step - loss: 0.3159 - val_loss: 0.4674
Epoch 48/100
50/50 [=====] - 5s 93ms/step - loss: 0.3112 - val_loss: 0.4926
Epoch 49/100
50/50 [=====] - 5s 94ms/step - loss: 0.3115 - val_loss: 0.4638
Epoch 50/100
50/50 [=====] - 5s 94ms/step - loss: 0.3068 - val_loss: 0.4573
Epoch 51/100
50/50 [=====] - 5s 93ms/step - loss: 0.3198 - val_loss: 0.4339
Epoch 52/100
50/50 [=====] - 5s 94ms/step - loss: 0.3028 - val_loss: 0.4365
Epoch 53/100
50/50 [=====] - 5s 93ms/step - loss: 0.3037 - val_loss: 0.4151
Epoch 54/100
50/50 [=====] - 5s 93ms/step - loss: 0.3010 - val_loss: 0.4252
Epoch 55/100
50/50 [=====] - 5s 93ms/step - loss: 0.3190 - val_loss: 0.6719
Epoch 56/100
50/50 [=====] - 5s 93ms/step - loss: 0.3083 - val_loss: 0.4139
Epoch 57/100
50/50 [=====] - 5s 92ms/step - loss: 0.3015 - val_loss: 0.5406
Epoch 58/100

50/50 [=====] - 5s 93ms/step - loss: 0.2949 - val_loss: 0.4219
Epoch 59/100
50/50 [=====] - 5s 93ms/step - loss: 0.2944 - val_loss: 0.4075
Epoch 60/100
50/50 [=====] - 5s 93ms/step - loss: 0.2929 - val_loss: 0.4325
Epoch 61/100
50/50 [=====] - 5s 93ms/step - loss: 0.2925 - val_loss: 0.4417
Epoch 62/100
50/50 [=====] - 5s 92ms/step - loss: 0.2927 - val_loss: 0.4101
Epoch 63/100
50/50 [=====] - 5s 94ms/step - loss: 0.2892 - val_loss: 0.4084
Epoch 64/100
50/50 [=====] - 5s 93ms/step - loss: 0.2957 - val_loss: 0.4159
Epoch 65/100
50/50 [=====] - 5s 93ms/step - loss: 0.2841 - val_loss: 0.4200
Epoch 66/100
50/50 [=====] - 5s 93ms/step - loss: 0.3006 - val_loss: 0.4334
Epoch 67/100
50/50 [=====] - 5s 91ms/step - loss: 0.2822 - val_loss: 0.4209
Epoch 68/100
50/50 [=====] - 5s 95ms/step - loss: 0.3026 - val_loss: 0.4151
Epoch 69/100
50/50 [=====] - 5s 93ms/step - loss: 0.2792 - val_loss: 0.4233
Epoch 70/100
50/50 [=====] - 5s 94ms/step - loss: 0.2784 - val_loss: 0.3999
Epoch 71/100
50/50 [=====] - 5s 93ms/step - loss: 0.2760 - val_loss: 0.4332
Epoch 72/100
50/50 [=====] - 5s 92ms/step - loss: 0.2994 - val_loss: 0.4199
Epoch 73/100
50/50 [=====] - 5s 93ms/step - loss: 0.2749 - val_loss: 0.4881
Epoch 74/100
50/50 [=====] - 5s 93ms/step - loss: 0.2743 - val_loss: 0.4195
Epoch 75/100
50/50 [=====] - 5s 92ms/step - loss: 0.2940 - val_loss: 0.7749
Epoch 76/100
50/50 [=====] - 5s 93ms/step - loss: 0.3432 - val_loss: 0.4471
Epoch 77/100
50/50 [=====] - 5s 94ms/step - loss: 0.2726 - val_loss: 0.4086
Epoch 78/100
50/50 [=====] - 5s 94ms/step - loss: 0.2701 - val_loss: 0.4073
Epoch 79/100
50/50 [=====] - 5s 95ms/step - loss: 0.2753 - val_loss: 0.4236
Epoch 80/100
50/50 [=====] - 5s 94ms/step - loss: 0.2688 - val_loss: 0.4277
Epoch 81/100
50/50 [=====] - 5s 94ms/step - loss: 0.2765 - val_loss: 0.4988
Epoch 82/100

50/50 [=====] - 5s 94ms/step - loss: 0.2679 - val_loss: 0.4156
Epoch 83/100
50/50 [=====] - 5s 94ms/step - loss: 0.2662 - val_loss: 0.4249
Epoch 84/100
50/50 [=====] - 5s 94ms/step - loss: 0.2816 - val_loss: 0.4176
Epoch 85/100
50/50 [=====] - 5s 94ms/step - loss: 0.2657 - val_loss: 0.4236
Epoch 86/100
50/50 [=====] - 5s 93ms/step - loss: 0.2753 - val_loss: 0.4352
Epoch 87/100
50/50 [=====] - 5s 94ms/step - loss: 0.2651 - val_loss: 0.4289
Epoch 88/100
50/50 [=====] - 5s 93ms/step - loss: 0.2631 - val_loss: 0.4110
Epoch 89/100
50/50 [=====] - 5s 93ms/step - loss: 0.3786 - val_loss: 0.6930
Epoch 90/100
50/50 [=====] - 5s 94ms/step - loss: 0.2883 - val_loss: 0.4294
Epoch 91/100
50/50 [=====] - 5s 92ms/step - loss: 0.2653 - val_loss: 0.4125
Epoch 92/100
50/50 [=====] - 5s 93ms/step - loss: 0.2640 - val_loss: 0.4264
Epoch 93/100
50/50 [=====] - 5s 92ms/step - loss: 0.2627 - val_loss: 0.4246
Epoch 94/100
50/50 [=====] - 5s 93ms/step - loss: 0.2624 - val_loss: 0.4230
Epoch 95/100
50/50 [=====] - 5s 94ms/step - loss: 0.3266 - val_loss: 0.7212
Epoch 96/100
50/50 [=====] - 5s 93ms/step - loss: 0.2908 - val_loss: 0.4351
Epoch 97/100
50/50 [=====] - 5s 94ms/step - loss: 0.2642 - val_loss: 0.4419
Epoch 98/100
50/50 [=====] - 5s 95ms/step - loss: 0.2603 - val_loss: 0.4369
Epoch 99/100
50/50 [=====] - 5s 93ms/step - loss: 0.2607 - val_loss: 0.4103
Epoch 100/100
50/50 [=====] - 5s 93ms/step - loss: 0.2603 - val_loss: 0.4258



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: [4297.331 3081.5476 2804.545 2999.7708 3059.9734 3734.579 4716.7715

4251.8647 3103.6218 2826.4668 3059.364 3041.352 3761.6191 4758.4707

4301.4473 3120.2263 2832.0679 3077.0168 3094.765 3775.524]

WI_1 - Model Percentage Error: [6.57975968 10.13393879 13.72850454 2.13724045 0.78963731 2.8718049

14.82897284 15.53705312 17.01545919 14.89702426 2.41263114 7.43030911

2.32913875 13.7333085 3.57661364 20.14733609 14.51651461 3.23846397

20.62670191 12.36016885]%

WI_1 - Model Mean Percentage Error: 9.944529082559102%

=====
=====

Training Model for WI_2...

Epoch 1/100

50/50 [=====] - 5s 101ms/step - loss: 0.7947 - val_loss: 1.6067

Epoch 2/100

50/50 [=====] - 5s 93ms/step - loss: 0.7638 - val_loss: 1.5370

Epoch 3/100

50/50 [=====] - 5s 92ms/step - loss: 0.6474 - val_loss: 1.3794

Epoch 4/100

50/50 [=====] - 5s 92ms/step - loss: 0.5436 - val_loss: 1.1920

Epoch 5/100

50/50 [=====] - 5s 92ms/step - loss: 0.4926 - val_loss: 1.0940

Epoch 6/100

50/50 [=====] - 5s 92ms/step - loss: 0.4810 - val_loss: 1.0118

Epoch 7/100

50/50 [=====] - 5s 92ms/step - loss: 0.4773 - val_loss: 0.9956

Epoch 8/100

50/50 [=====] - 5s 92ms/step - loss: 0.4710 - val_loss: 0.9531

Epoch 9/100

50/50 [=====] - 5s 93ms/step - loss: 0.4649 - val_loss: 0.9215

Epoch 10/100

50/50 [=====] - 5s 93ms/step - loss: 0.4554 - val_loss: 0.9304

Epoch 11/100

50/50 [=====] - 5s 92ms/step - loss: 0.4483 - val_loss: 0.9573

Epoch 12/100

50/50 [=====] - 5s 93ms/step - loss: 0.4372 - val_loss: 0.9711

Epoch 13/100

50/50 [=====] - 5s 93ms/step - loss: 0.4290 - val_loss: 1.0344

Epoch 14/100

50/50 [=====] - 5s 92ms/step - loss: 0.4189 - val_loss: 0.9967

Epoch 15/100

50/50 [=====] - 5s 93ms/step - loss: 0.4124 - val_loss: 0.9545

Epoch 16/100

50/50 [=====] - 5s 92ms/step - loss: 0.4039 - val_loss: 0.9419

Epoch 17/100

50/50 [=====] - 5s 93ms/step - loss: 0.4010 - val_loss: 0.9003

Epoch 18/100

50/50 [=====] - 5s 94ms/step - loss: 0.3951 - val_loss: 0.8735

Epoch 19/100

50/50 [=====] - 5s 93ms/step - loss: 0.3925 - val_loss: 0.8450

Epoch 20/100

50/50 [=====] - 5s 94ms/step - loss: 0.3899 - val_loss: 0.8094

Epoch 21/100

50/50 [=====] - 5s 92ms/step - loss: 0.3885 - val_loss: 0.7835

Epoch 22/100
50/50 [=====] - 5s 92ms/step - loss: 0.3856 - val_loss: 0.7623
Epoch 23/100
50/50 [=====] - 5s 92ms/step - loss: 0.3853 - val_loss: 0.7648
Epoch 24/100
50/50 [=====] - 5s 93ms/step - loss: 0.3846 - val_loss: 0.7492
Epoch 25/100
50/50 [=====] - 5s 94ms/step - loss: 0.3826 - val_loss: 0.7480
Epoch 26/100
50/50 [=====] - 5s 93ms/step - loss: 0.3815 - val_loss: 0.7635
Epoch 27/100
50/50 [=====] - 5s 93ms/step - loss: 0.3809 - val_loss: 0.7513
Epoch 28/100
50/50 [=====] - 5s 93ms/step - loss: 0.3803 - val_loss: 0.7461
Epoch 29/100
50/50 [=====] - 5s 92ms/step - loss: 0.3800 - val_loss: 0.7505
Epoch 30/100
50/50 [=====] - 5s 93ms/step - loss: 0.3784 - val_loss: 0.7544
Epoch 31/100
50/50 [=====] - 5s 93ms/step - loss: 0.3779 - val_loss: 0.7707
Epoch 32/100
50/50 [=====] - 5s 93ms/step - loss: 0.3773 - val_loss: 0.7616
Epoch 33/100
50/50 [=====] - 5s 93ms/step - loss: 0.3769 - val_loss: 0.7673
Epoch 34/100
50/50 [=====] - 5s 93ms/step - loss: 0.3756 - val_loss: 0.7768
Epoch 35/100
50/50 [=====] - 5s 94ms/step - loss: 0.3749 - val_loss: 0.7659
Epoch 36/100
50/50 [=====] - 5s 92ms/step - loss: 0.3738 - val_loss: 0.7468
Epoch 37/100
50/50 [=====] - 5s 91ms/step - loss: 0.3727 - val_loss: 0.7546
Epoch 38/100
50/50 [=====] - 5s 93ms/step - loss: 0.3730 - val_loss: 0.7514
Epoch 39/100
50/50 [=====] - 5s 92ms/step - loss: 0.3712 - val_loss: 0.7457
Epoch 40/100
50/50 [=====] - 5s 93ms/step - loss: 0.3704 - val_loss: 0.7404
Epoch 41/100
50/50 [=====] - 5s 93ms/step - loss: 0.3696 - val_loss: 0.7193
Epoch 42/100
50/50 [=====] - 5s 93ms/step - loss: 0.3709 - val_loss: 0.7129
Epoch 43/100
50/50 [=====] - 5s 94ms/step - loss: 0.3688 - val_loss: 0.7085
Epoch 44/100
50/50 [=====] - 5s 95ms/step - loss: 0.3671 - val_loss: 0.7424
Epoch 45/100
50/50 [=====] - 5s 93ms/step - loss: 0.3686 - val_loss: 0.7186

Epoch 46/100
50/50 [=====] - 5s 93ms/step - loss: 0.3670 - val_loss: 0.7165
Epoch 47/100
50/50 [=====] - 5s 91ms/step - loss: 0.3675 - val_loss: 0.7227
Epoch 48/100
50/50 [=====] - 5s 93ms/step - loss: 0.3659 - val_loss: 0.7341
Epoch 49/100
50/50 [=====] - 5s 93ms/step - loss: 0.3672 - val_loss: 0.7028
Epoch 50/100
50/50 [=====] - 5s 93ms/step - loss: 0.3650 - val_loss: 0.7272
Epoch 51/100
50/50 [=====] - 5s 93ms/step - loss: 0.3650 - val_loss: 0.6923
Epoch 52/100
50/50 [=====] - 5s 94ms/step - loss: 0.3650 - val_loss: 0.7168
Epoch 53/100
50/50 [=====] - 5s 93ms/step - loss: 0.3644 - val_loss: 0.7115
Epoch 54/100
50/50 [=====] - 5s 93ms/step - loss: 0.3638 - val_loss: 0.7347
Epoch 55/100
50/50 [=====] - 5s 92ms/step - loss: 0.3643 - val_loss: 0.7062
Epoch 56/100
50/50 [=====] - 5s 93ms/step - loss: 0.3627 - val_loss: 0.7359
Epoch 57/100
50/50 [=====] - 5s 93ms/step - loss: 0.3633 - val_loss: 0.7400
Epoch 58/100
50/50 [=====] - 5s 109ms/step - loss: 0.3630 - val_loss: 0.7368
Epoch 59/100
50/50 [=====] - 6s 126ms/step - loss: 0.3620 - val_loss: 0.8002
Epoch 60/100
50/50 [=====] - 5s 93ms/step - loss: 0.3614 - val_loss: 0.7202
Epoch 61/100
50/50 [=====] - 5s 94ms/step - loss: 0.3612 - val_loss: 0.7005
Epoch 62/100
50/50 [=====] - 5s 92ms/step - loss: 0.3620 - val_loss: 0.6987
Epoch 63/100
50/50 [=====] - 5s 94ms/step - loss: 0.3610 - val_loss: 0.7619
Epoch 64/100
50/50 [=====] - 5s 93ms/step - loss: 0.3612 - val_loss: 0.7193
Epoch 65/100
50/50 [=====] - 5s 93ms/step - loss: 0.3600 - val_loss: 0.8773
Epoch 66/100
50/50 [=====] - 5s 93ms/step - loss: 0.3599 - val_loss: 0.8142
Epoch 67/100
50/50 [=====] - 5s 93ms/step - loss: 0.3591 - val_loss: 0.7036
Epoch 68/100
50/50 [=====] - 5s 95ms/step - loss: 0.3602 - val_loss: 0.7166
Epoch 69/100
50/50 [=====] - 5s 93ms/step - loss: 0.3582 - val_loss: 0.8752

Epoch 70/100
50/50 [=====] - 5s 94ms/step - loss: 0.3584 - val_loss: 0.8618
Epoch 71/100
50/50 [=====] - 5s 94ms/step - loss: 0.3579 - val_loss: 0.9118
Epoch 72/100
50/50 [=====] - 5s 94ms/step - loss: 0.3576 - val_loss: 1.0151
Epoch 73/100
50/50 [=====] - 5s 93ms/step - loss: 0.3563 - val_loss: 0.7641
Epoch 74/100
50/50 [=====] - 5s 93ms/step - loss: 0.3574 - val_loss: 0.8122
Epoch 75/100
50/50 [=====] - 5s 94ms/step - loss: 0.3557 - val_loss: 0.9010
Epoch 76/100
50/50 [=====] - 5s 93ms/step - loss: 0.3568 - val_loss: 0.8687
Epoch 77/100
50/50 [=====] - 5s 93ms/step - loss: 0.3558 - val_loss: 0.8290
Epoch 78/100
50/50 [=====] - 5s 94ms/step - loss: 0.3552 - val_loss: 0.8269
Epoch 79/100
50/50 [=====] - 5s 94ms/step - loss: 0.3550 - val_loss: 0.8431
Epoch 80/100
50/50 [=====] - 5s 93ms/step - loss: 0.3541 - val_loss: 0.7261
Epoch 81/100
50/50 [=====] - 5s 93ms/step - loss: 0.3550 - val_loss: 0.8645
Epoch 82/100
50/50 [=====] - 5s 94ms/step - loss: 0.3539 - val_loss: 0.7110
Epoch 83/100
50/50 [=====] - 5s 94ms/step - loss: 0.3531 - val_loss: 0.7849
Epoch 84/100
50/50 [=====] - 5s 92ms/step - loss: 0.3529 - val_loss: 0.7920
Epoch 85/100
50/50 [=====] - 5s 94ms/step - loss: 0.3527 - val_loss: 0.8891
Epoch 86/100
50/50 [=====] - 5s 94ms/step - loss: 0.3527 - val_loss: 0.7889
Epoch 87/100
50/50 [=====] - 5s 93ms/step - loss: 0.3510 - val_loss: 0.7548
Epoch 88/100
50/50 [=====] - 5s 94ms/step - loss: 0.3522 - val_loss: 0.7603
Epoch 89/100
50/50 [=====] - 5s 93ms/step - loss: 0.3519 - val_loss: 0.7154
Epoch 90/100
50/50 [=====] - 5s 94ms/step - loss: 0.3504 - val_loss: 0.7168
Epoch 91/100
50/50 [=====] - 5s 93ms/step - loss: 0.3502 - val_loss: 0.7384
Epoch 92/100
50/50 [=====] - 5s 94ms/step - loss: 0.3498 - val_loss: 0.7135
Epoch 93/100
50/50 [=====] - 5s 93ms/step - loss: 0.3492 - val_loss: 0.7543

Epoch 94/100

50/50 [=====] - 5s 94ms/step - loss: 0.3493 - val_loss: 0.7210

Epoch 95/100

50/50 [=====] - 5s 94ms/step - loss: 0.3488 - val_loss: 0.7121

Epoch 96/100

50/50 [=====] - 5s 93ms/step - loss: 0.3483 - val_loss: 0.7347

Epoch 97/100

50/50 [=====] - 5s 93ms/step - loss: 0.3478 - val_loss: 0.7197

Epoch 98/100

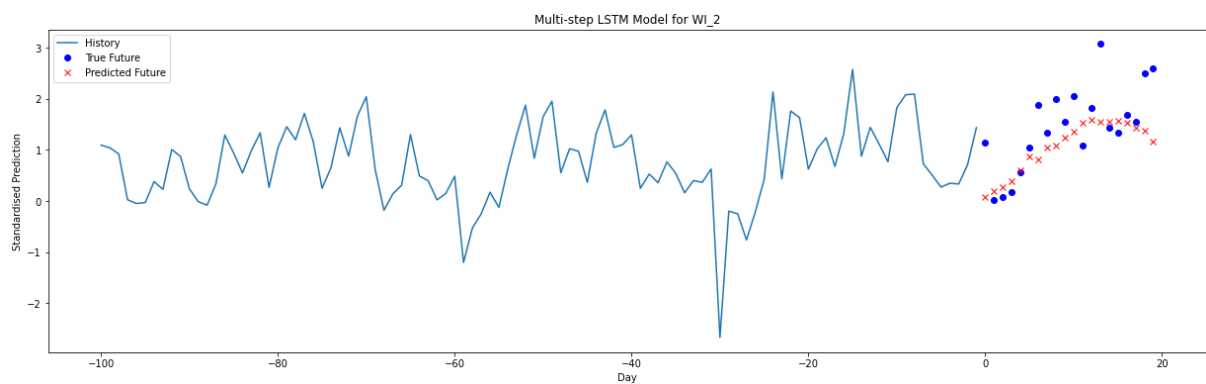
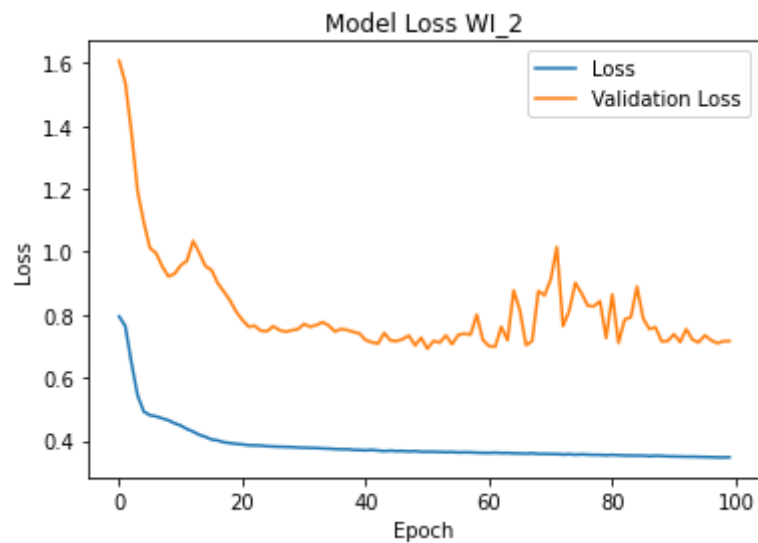
50/50 [=====] - 5s 93ms/step - loss: 0.3472 - val_loss: 0.7098

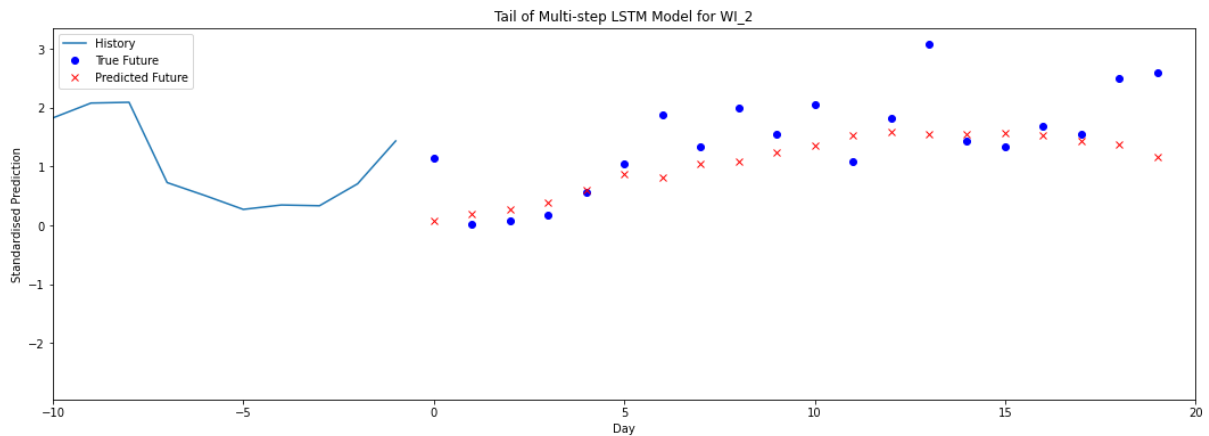
Epoch 99/100

50/50 [=====] - 5s 94ms/step - loss: 0.3468 - val_loss: 0.7161

Epoch 100/100

50/50 [=====] - 5s 93ms/step - loss: 0.3477 - val_loss: 0.7165





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: [3383.4995 3506.9377 3620.4094 3742.8447 4010.6055 4353.908 4286.078

4553.5913 4619.021 4790.1606 4952.8125 5155.988 5220.4883 5175.517

5171.2393 5200.518 5148.8975 5026.2275 4964.119 4711.461]

WI_2 - Model Percentage Error: [27.54819033 6.2386472 6.92290088 6.93842076 1.2523471 4.70763399

23.2710683 7.35317785 19.2196398 7.32906472 14.40006049 11.91638361

5.18546529 26.54673446 2.48195121 5.98161945 3.90262298 2.96858033

21.61504594 27.10102216]%

WI_2 - Model Mean Percentage Error: 11.644028842255572%

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Training Model for WI_3...

Epoch 1/100

50/50 [=====] - 5s 101ms/step - loss: 0.7896 - val_loss: 1.0027

Epoch 2/100

50/50 [=====] - 5s 93ms/step - loss: 0.7863 - val_loss: 1.0103

Epoch 3/100

50/50 [=====] - 5s 93ms/step - loss: 0.7788 - val_loss: 1.0147

Epoch 4/100

50/50 [=====] - 5s 92ms/step - loss: 0.7758 - val_loss: 1.0140

Epoch 5/100

50/50 [=====] - 5s 93ms/step - loss: 0.7673 - val_loss: 1.0066

Epoch 6/100

50/50 [=====] - 5s 94ms/step - loss: 0.7575 - val_loss: 0.9904

Epoch 7/100

50/50 [=====] - 5s 95ms/step - loss: 0.7452 - val_loss: 0.9730

Epoch 8/100

50/50 [=====] - 5s 94ms/step - loss: 0.7366 - val_loss: 0.9526

Epoch 9/100

50/50 [=====] - 5s 93ms/step - loss: 0.7308 - val_loss: 0.9304

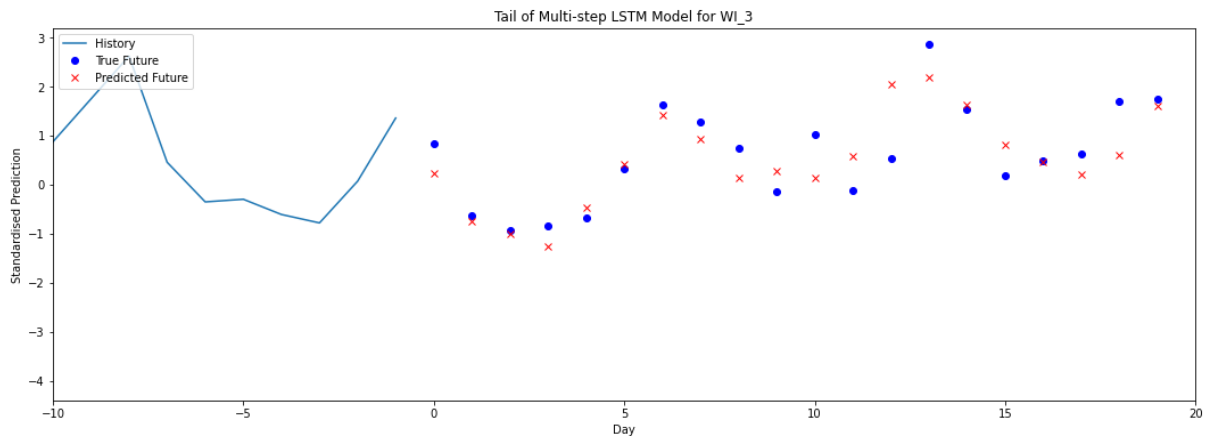
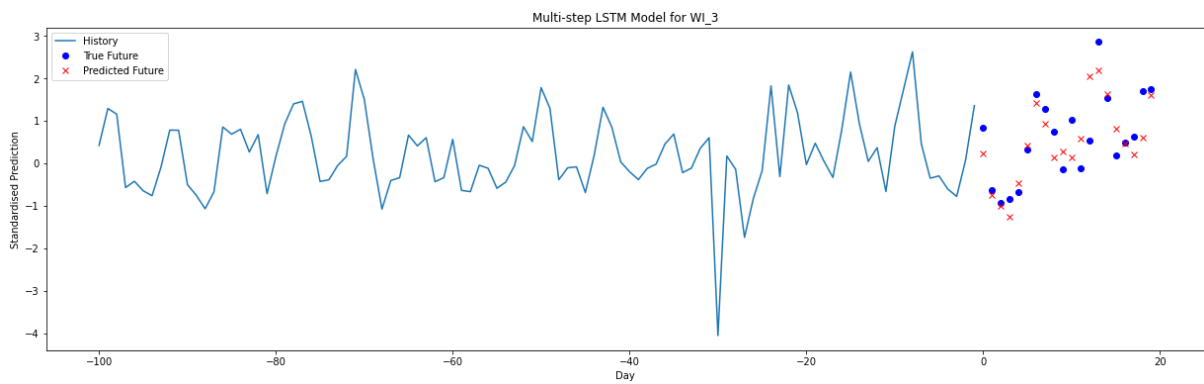
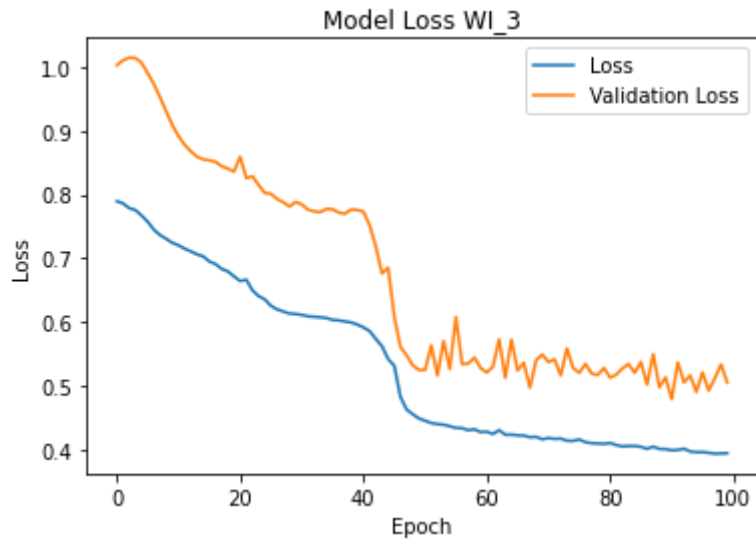
Epoch 10/100

50/50 [=====] - 5s 93ms/step - loss: 0.7244 - val_loss: 0.9090
Epoch 11/100
50/50 [=====] - 5s 93ms/step - loss: 0.7206 - val_loss: 0.8917
Epoch 12/100
50/50 [=====] - 5s 93ms/step - loss: 0.7153 - val_loss: 0.8779
Epoch 13/100
50/50 [=====] - 5s 93ms/step - loss: 0.7110 - val_loss: 0.8677
Epoch 14/100
50/50 [=====] - 5s 94ms/step - loss: 0.7064 - val_loss: 0.8594
Epoch 15/100
50/50 [=====] - 5s 91ms/step - loss: 0.7032 - val_loss: 0.8553
Epoch 16/100
50/50 [=====] - 5s 95ms/step - loss: 0.6952 - val_loss: 0.8538
Epoch 17/100
50/50 [=====] - 5s 96ms/step - loss: 0.6912 - val_loss: 0.8514
Epoch 18/100
50/50 [=====] - 5s 94ms/step - loss: 0.6836 - val_loss: 0.8445
Epoch 19/100
50/50 [=====] - 5s 95ms/step - loss: 0.6798 - val_loss: 0.8408
Epoch 20/100
50/50 [=====] - 5s 93ms/step - loss: 0.6718 - val_loss: 0.8360
Epoch 21/100
50/50 [=====] - 5s 94ms/step - loss: 0.6646 - val_loss: 0.8592
Epoch 22/100
50/50 [=====] - 5s 94ms/step - loss: 0.6667 - val_loss: 0.8258
Epoch 23/100
50/50 [=====] - 5s 94ms/step - loss: 0.6499 - val_loss: 0.8288
Epoch 24/100
50/50 [=====] - 5s 96ms/step - loss: 0.6410 - val_loss: 0.8150
Epoch 25/100
50/50 [=====] - 5s 94ms/step - loss: 0.6358 - val_loss: 0.8028
Epoch 26/100
50/50 [=====] - 5s 94ms/step - loss: 0.6257 - val_loss: 0.8012
Epoch 27/100
50/50 [=====] - 5s 94ms/step - loss: 0.6202 - val_loss: 0.7931
Epoch 28/100
50/50 [=====] - 5s 93ms/step - loss: 0.6169 - val_loss: 0.7880
Epoch 29/100
50/50 [=====] - 5s 94ms/step - loss: 0.6136 - val_loss: 0.7812
Epoch 30/100
50/50 [=====] - 5s 94ms/step - loss: 0.6129 - val_loss: 0.7886
Epoch 31/100
50/50 [=====] - 5s 94ms/step - loss: 0.6116 - val_loss: 0.7846
Epoch 32/100
50/50 [=====] - 5s 93ms/step - loss: 0.6093 - val_loss: 0.7764
Epoch 33/100
50/50 [=====] - 5s 93ms/step - loss: 0.6086 - val_loss: 0.7738
Epoch 34/100

50/50 [=====] - 5s 94ms/step - loss: 0.6077 - val_loss: 0.7726
Epoch 35/100
50/50 [=====] - 5s 93ms/step - loss: 0.6066 - val_loss: 0.7776
Epoch 36/100
50/50 [=====] - 5s 93ms/step - loss: 0.6037 - val_loss: 0.7770
Epoch 37/100
50/50 [=====] - 5s 94ms/step - loss: 0.6030 - val_loss: 0.7719
Epoch 38/100
50/50 [=====] - 5s 94ms/step - loss: 0.6012 - val_loss: 0.7700
Epoch 39/100
50/50 [=====] - 5s 93ms/step - loss: 0.5997 - val_loss: 0.7767
Epoch 40/100
50/50 [=====] - 5s 94ms/step - loss: 0.5964 - val_loss: 0.7760
Epoch 41/100
50/50 [=====] - 5s 92ms/step - loss: 0.5920 - val_loss: 0.7732
Epoch 42/100
50/50 [=====] - 5s 93ms/step - loss: 0.5861 - val_loss: 0.7521
Epoch 43/100
50/50 [=====] - 5s 93ms/step - loss: 0.5740 - val_loss: 0.7188
Epoch 44/100
50/50 [=====] - 5s 93ms/step - loss: 0.5625 - val_loss: 0.6764
Epoch 45/100
50/50 [=====] - 5s 95ms/step - loss: 0.5425 - val_loss: 0.6855
Epoch 46/100
50/50 [=====] - 5s 93ms/step - loss: 0.5318 - val_loss: 0.6085
Epoch 47/100
50/50 [=====] - 5s 94ms/step - loss: 0.4829 - val_loss: 0.5612
Epoch 48/100
50/50 [=====] - 5s 93ms/step - loss: 0.4633 - val_loss: 0.5483
Epoch 49/100
50/50 [=====] - 5s 93ms/step - loss: 0.4559 - val_loss: 0.5324
Epoch 50/100
50/50 [=====] - 5s 94ms/step - loss: 0.4493 - val_loss: 0.5252
Epoch 51/100
50/50 [=====] - 5s 94ms/step - loss: 0.4456 - val_loss: 0.5255
Epoch 52/100
50/50 [=====] - 5s 93ms/step - loss: 0.4421 - val_loss: 0.5638
Epoch 53/100
50/50 [=====] - 5s 95ms/step - loss: 0.4404 - val_loss: 0.5166
Epoch 54/100
50/50 [=====] - 5s 94ms/step - loss: 0.4395 - val_loss: 0.5706
Epoch 55/100
50/50 [=====] - 5s 94ms/step - loss: 0.4371 - val_loss: 0.5266
Epoch 56/100
50/50 [=====] - 5s 94ms/step - loss: 0.4345 - val_loss: 0.6079
Epoch 57/100
50/50 [=====] - 5s 94ms/step - loss: 0.4340 - val_loss: 0.5345
Epoch 58/100

50/50 [=====] - 5s 93ms/step - loss: 0.4308 - val_loss: 0.5353
Epoch 59/100
50/50 [=====] - 5s 94ms/step - loss: 0.4323 - val_loss: 0.5447
Epoch 60/100
50/50 [=====] - 5s 94ms/step - loss: 0.4279 - val_loss: 0.5284
Epoch 61/100
50/50 [=====] - 5s 94ms/step - loss: 0.4286 - val_loss: 0.5212
Epoch 62/100
50/50 [=====] - 5s 94ms/step - loss: 0.4250 - val_loss: 0.5304
Epoch 63/100
50/50 [=====] - 5s 94ms/step - loss: 0.4310 - val_loss: 0.5731
Epoch 64/100
50/50 [=====] - 5s 95ms/step - loss: 0.4237 - val_loss: 0.5130
Epoch 65/100
50/50 [=====] - 5s 94ms/step - loss: 0.4239 - val_loss: 0.5728
Epoch 66/100
50/50 [=====] - 5s 94ms/step - loss: 0.4229 - val_loss: 0.5245
Epoch 67/100
50/50 [=====] - 5s 94ms/step - loss: 0.4225 - val_loss: 0.5367
Epoch 68/100
50/50 [=====] - 5s 96ms/step - loss: 0.4198 - val_loss: 0.4974
Epoch 69/100
50/50 [=====] - 5s 95ms/step - loss: 0.4205 - val_loss: 0.5405
Epoch 70/100
50/50 [=====] - 5s 95ms/step - loss: 0.4166 - val_loss: 0.5495
Epoch 71/100
50/50 [=====] - 5s 95ms/step - loss: 0.4185 - val_loss: 0.5377
Epoch 72/100
50/50 [=====] - 5s 96ms/step - loss: 0.4173 - val_loss: 0.5419
Epoch 73/100
50/50 [=====] - 5s 95ms/step - loss: 0.4177 - val_loss: 0.5167
Epoch 74/100
50/50 [=====] - 5s 94ms/step - loss: 0.4145 - val_loss: 0.5590
Epoch 75/100
50/50 [=====] - 5s 94ms/step - loss: 0.4141 - val_loss: 0.5287
Epoch 76/100
50/50 [=====] - 5s 94ms/step - loss: 0.4164 - val_loss: 0.5206
Epoch 77/100
50/50 [=====] - 5s 95ms/step - loss: 0.4120 - val_loss: 0.5348
Epoch 78/100
50/50 [=====] - 5s 94ms/step - loss: 0.4106 - val_loss: 0.5198
Epoch 79/100
50/50 [=====] - 5s 94ms/step - loss: 0.4101 - val_loss: 0.5172
Epoch 80/100
50/50 [=====] - 5s 94ms/step - loss: 0.4095 - val_loss: 0.5285
Epoch 81/100
50/50 [=====] - 5s 93ms/step - loss: 0.4109 - val_loss: 0.5133
Epoch 82/100

50/50 [=====] - 5s 94ms/step - loss: 0.4076 - val_loss: 0.5178
Epoch 83/100
50/50 [=====] - 5s 94ms/step - loss: 0.4055 - val_loss: 0.5277
Epoch 84/100
50/50 [=====] - 5s 103ms/step - loss: 0.4061 - val_loss: 0.5345
Epoch 85/100
50/50 [=====] - 7s 150ms/step - loss: 0.4062 - val_loss: 0.5208
Epoch 86/100
50/50 [=====] - 5s 95ms/step - loss: 0.4049 - val_loss: 0.5378
Epoch 87/100
50/50 [=====] - 5s 95ms/step - loss: 0.4017 - val_loss: 0.5025
Epoch 88/100
50/50 [=====] - 5s 95ms/step - loss: 0.4051 - val_loss: 0.5501
Epoch 89/100
50/50 [=====] - 5s 94ms/step - loss: 0.4015 - val_loss: 0.4980
Epoch 90/100
50/50 [=====] - 5s 93ms/step - loss: 0.4012 - val_loss: 0.5136
Epoch 91/100
50/50 [=====] - 5s 93ms/step - loss: 0.3994 - val_loss: 0.4794
Epoch 92/100
50/50 [=====] - 5s 94ms/step - loss: 0.4000 - val_loss: 0.5369
Epoch 93/100
50/50 [=====] - 5s 93ms/step - loss: 0.4018 - val_loss: 0.5057
Epoch 94/100
50/50 [=====] - 5s 95ms/step - loss: 0.3975 - val_loss: 0.5167
Epoch 95/100
50/50 [=====] - 5s 94ms/step - loss: 0.3965 - val_loss: 0.4908
Epoch 96/100
50/50 [=====] - 5s 94ms/step - loss: 0.3965 - val_loss: 0.5214
Epoch 97/100
50/50 [=====] - 5s 94ms/step - loss: 0.3954 - val_loss: 0.4928
Epoch 98/100
50/50 [=====] - 5s 94ms/step - loss: 0.3941 - val_loss: 0.5125
Epoch 99/100
50/50 [=====] - 5s 94ms/step - loss: 0.3945 - val_loss: 0.5340
Epoch 100/100
50/50 [=====] - 5s 93ms/step - loss: 0.3948 - val_loss: 0.5056



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: [3501.7063 2706.2705 2499.3276 2282.5332 2940.985 3654.6814 4490.801

4078.9136 3432.8699 3549.3408 3440.6418 3793.2493 4992.5093 5113.3447

4653.0703 3991.9802 3702.2505 3491.342 3812.3618 4641.394]

WI_3 - Model Percentage Error: [12.4135493 3.55415154 2.52232306 13.27761386 5.98144531 2.08607253

3.48590627 6.48983094 12.8270728 10.57136512 17.15285707 17.83936836

32.92090728 9.61031065 1.66201251 15.10900302 0.69070579 8.91359142

19.24673128 2.47123255]%

WI_3 - Model Mean Percentage Error: 9.941302532981677%

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