

Extreme Learning Machine (ELM)

Performance Tests

Error Metrics for each Time Step:

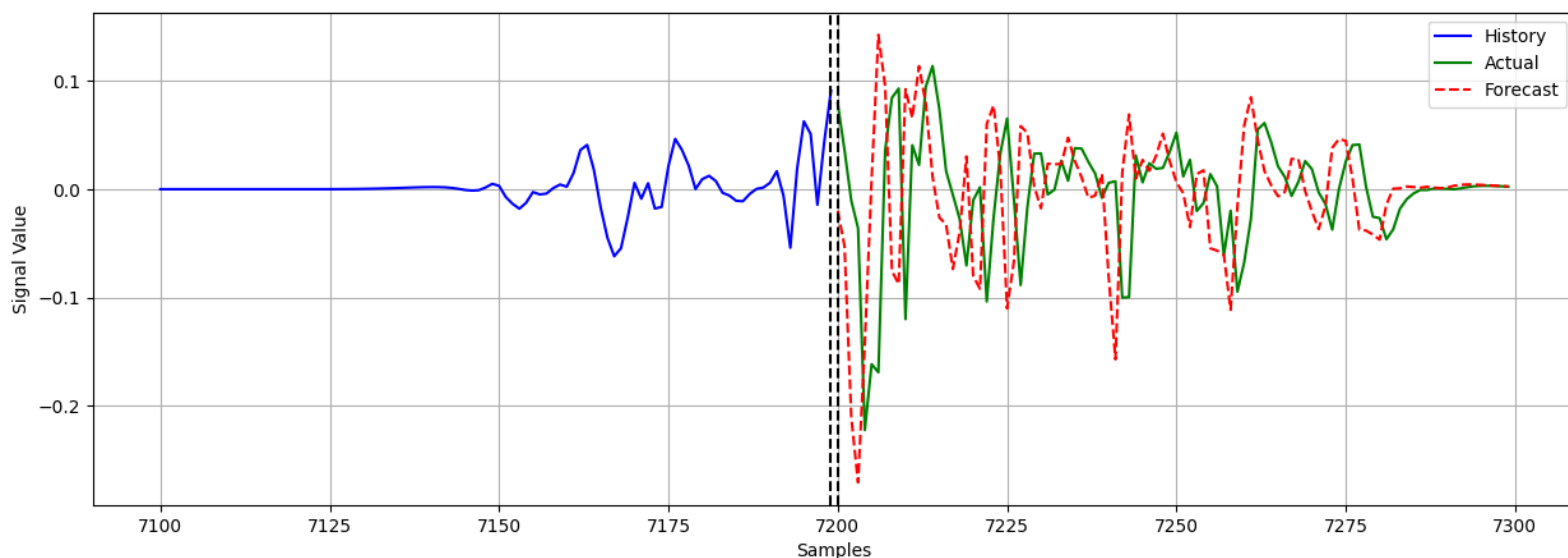
Note: 1 Time step is 5 Minutes.

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Timestep: 0  -> MAE: 0.0063, RMSE: 0.0203, R2: 78.0397
Timestep: 1  -> MAE: 0.0088, RMSE: 0.0284, R2: 57.2428
Timestep: 3  -> MAE: 0.0157, RMSE: 0.0427, R2: 3.8489
Timestep: 6  -> MAE: 0.0162, RMSE: 0.0441, R2: -2.4288
Timestep: 18 -> MAE: 0.0137, RMSE: 0.0411, R2: 11.7849
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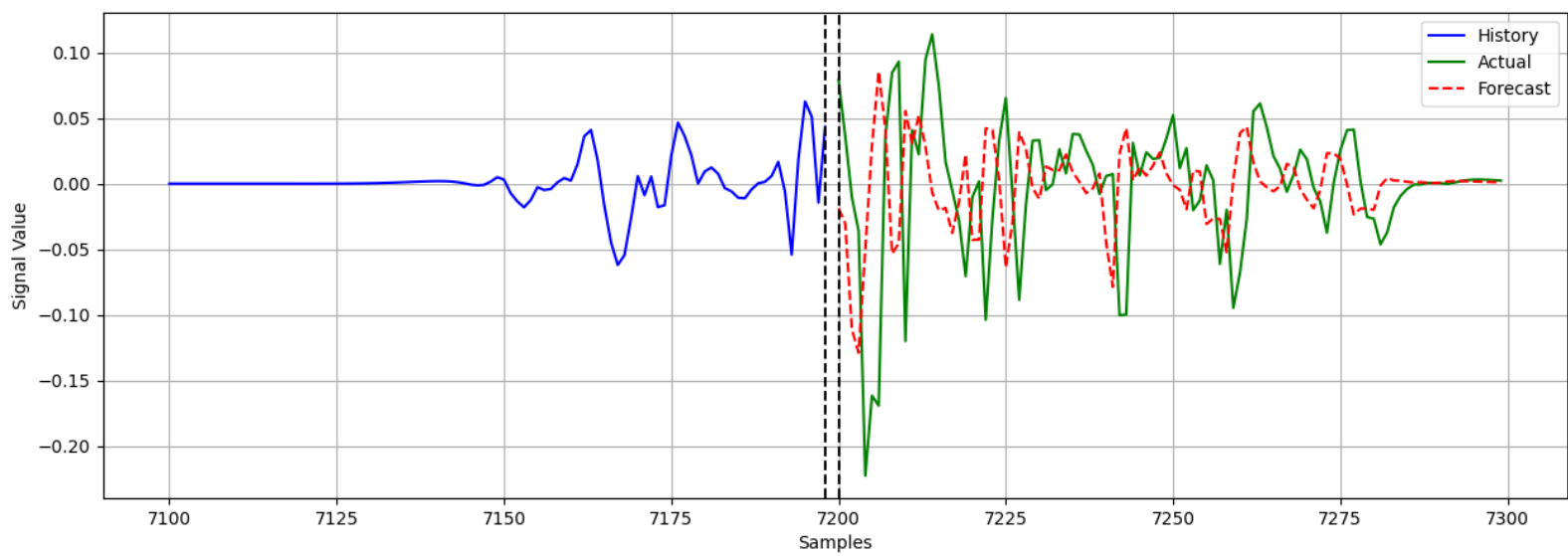
Currently, ELM is the **best performing model** for **T+18** time step.

Forecast Plots for each Time Step:

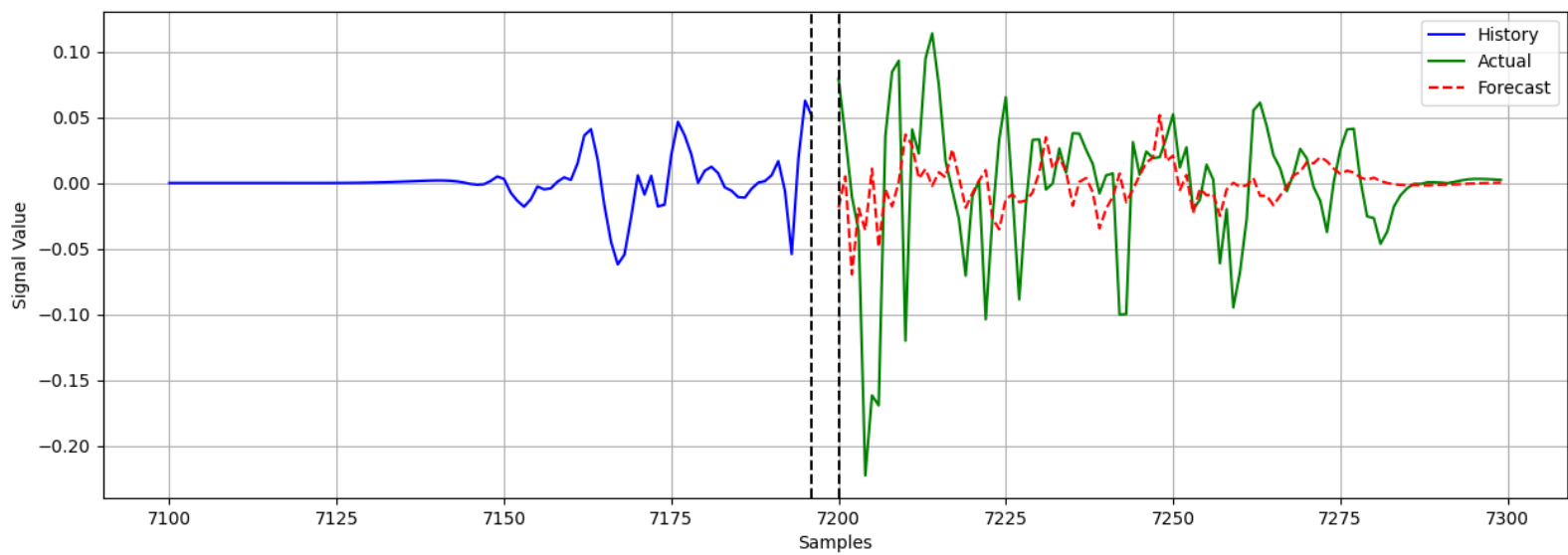
1) T+0 (Immediate)



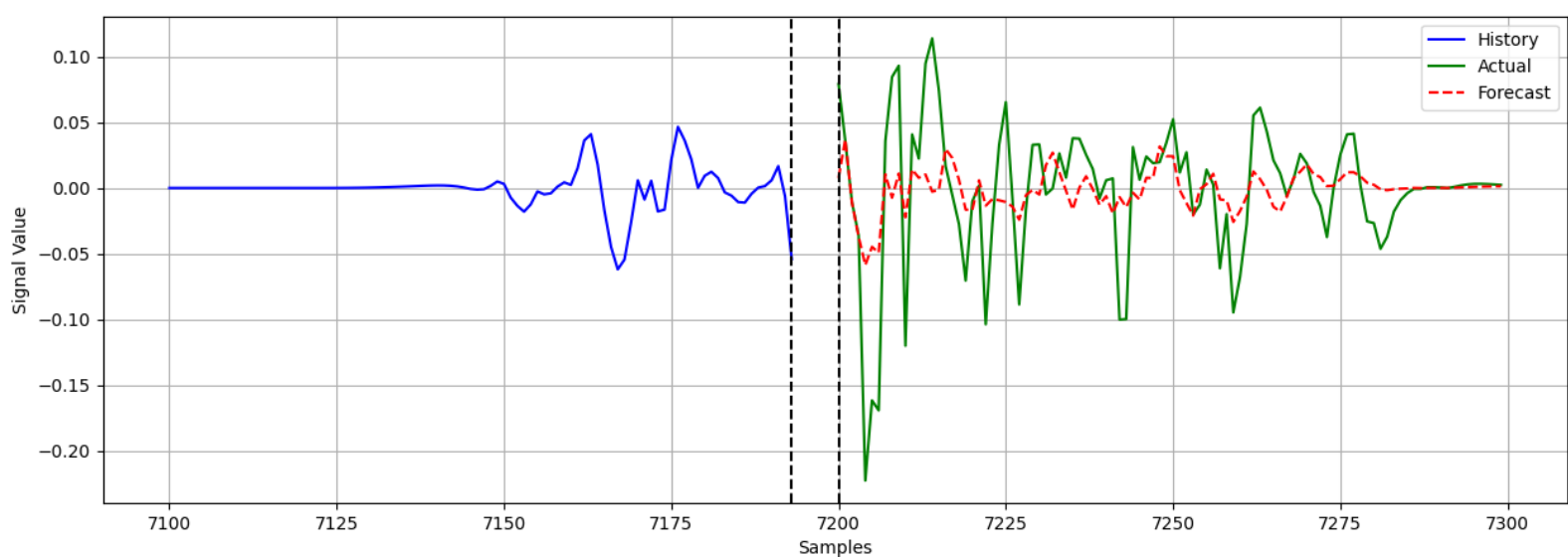
2) T+1 (5 Mins)



3) T+3 (15 Mins)



4) T+6 (30 Mins)



5) T+18 (90 Mins)

