

# Engine RUL Prediction Report

*Generated on: 2025-06-24 10:22:55*

Mean Absolute Error (MAE): 24.28

Root Mean Squared Error (RMSE): 35.17

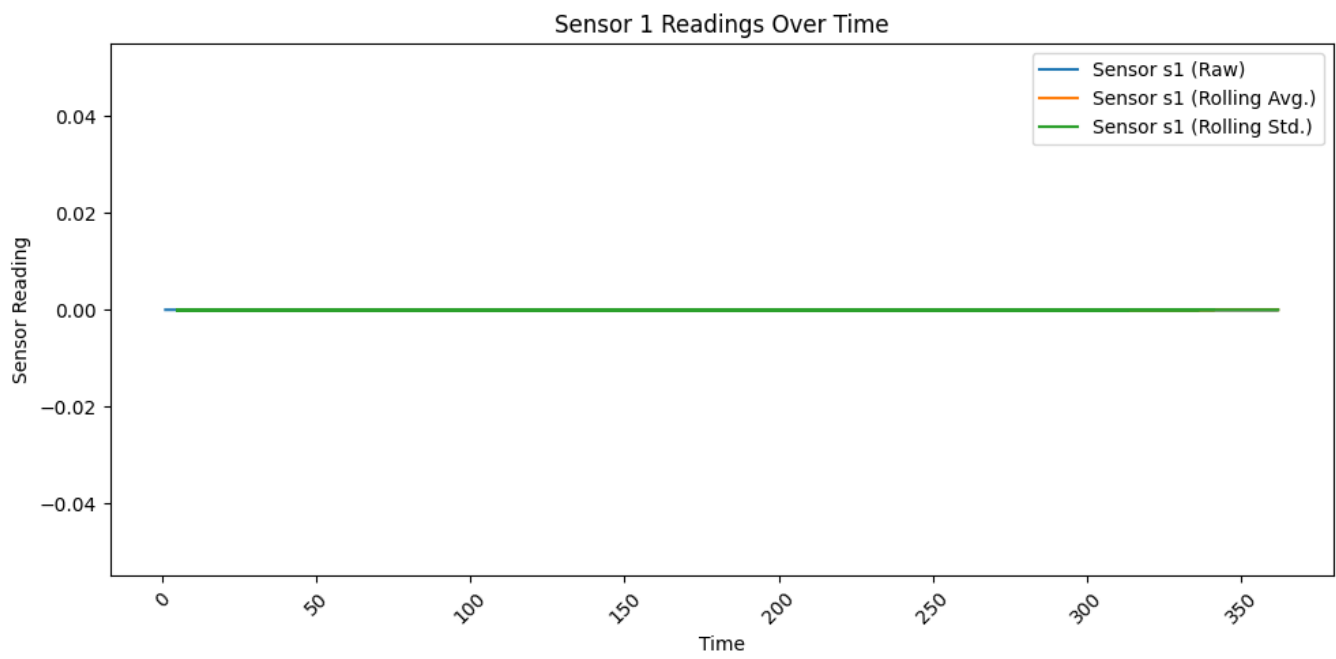
R<sup>2</sup> Score: 0.73

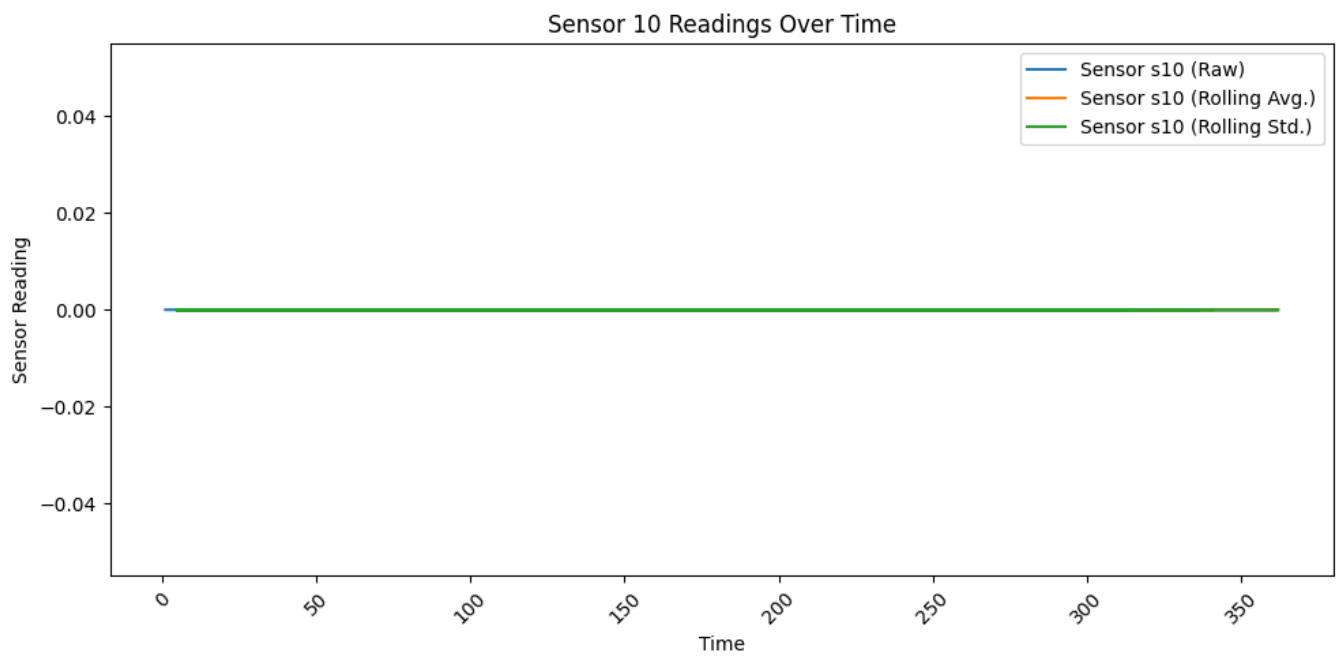
Lowest Error Engine: 91 (5.71)

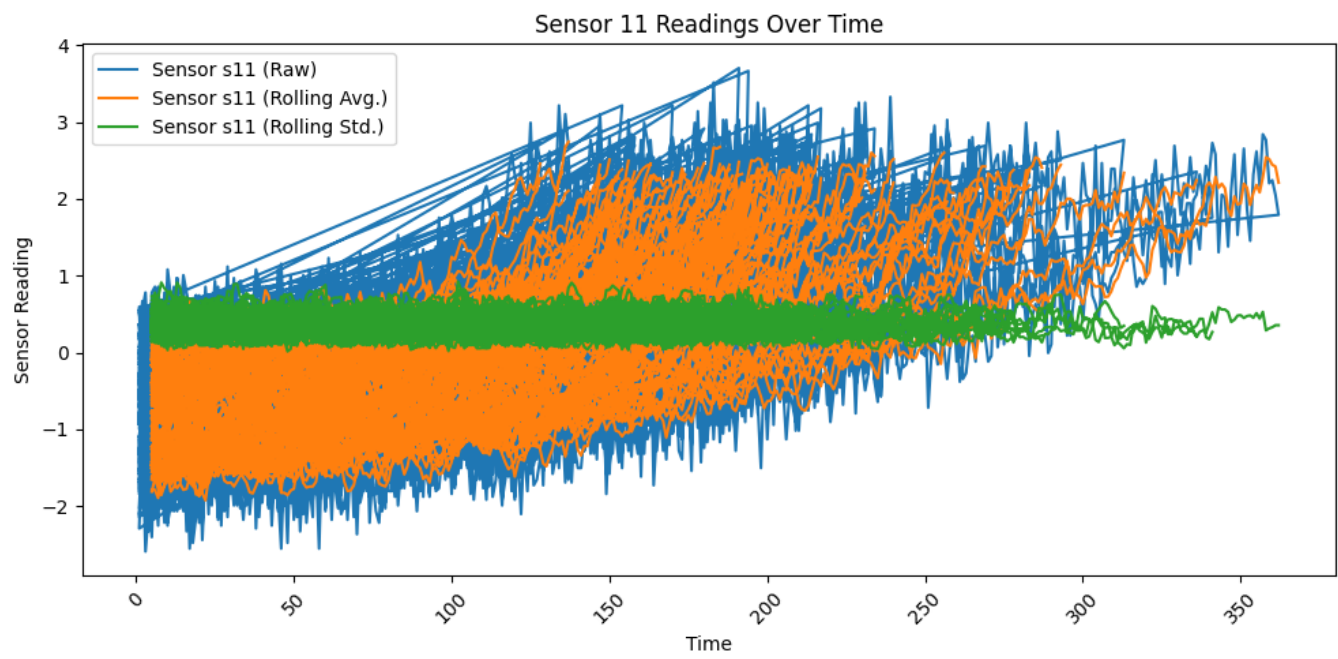
Highest Error Engine: 69 (62.86)

## Top Important Features:

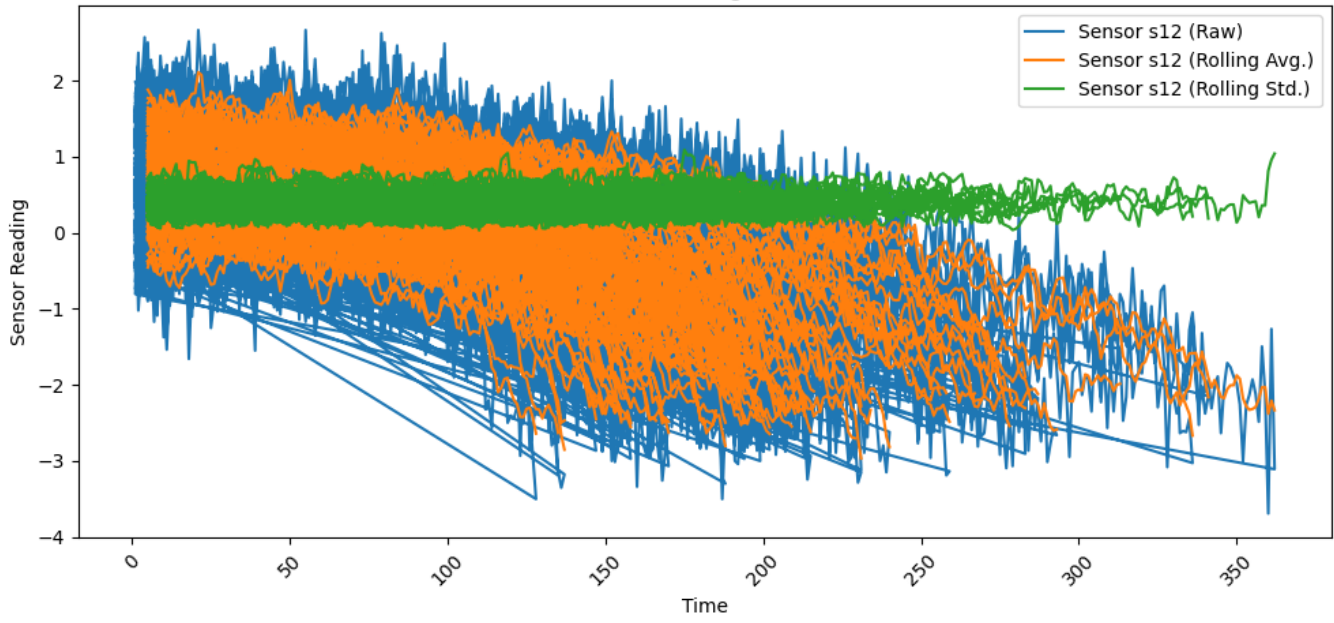
- s4\_roll\_mean
- s9\_roll\_mean
- s21\_roll\_mean
- s11\_roll\_mean
- s14\_roll\_mean
- s7\_roll\_mean
- s12\_roll\_mean
- s15\_roll\_mean
- s13\_roll\_mean
- s8\_roll\_mean



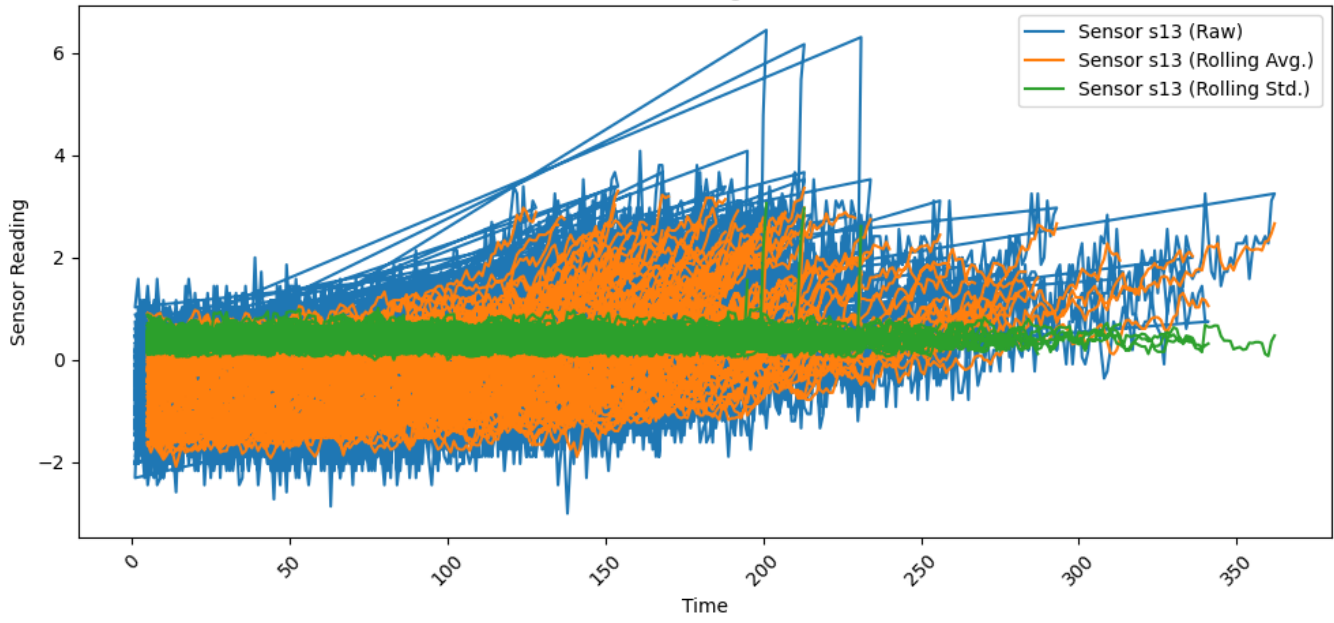




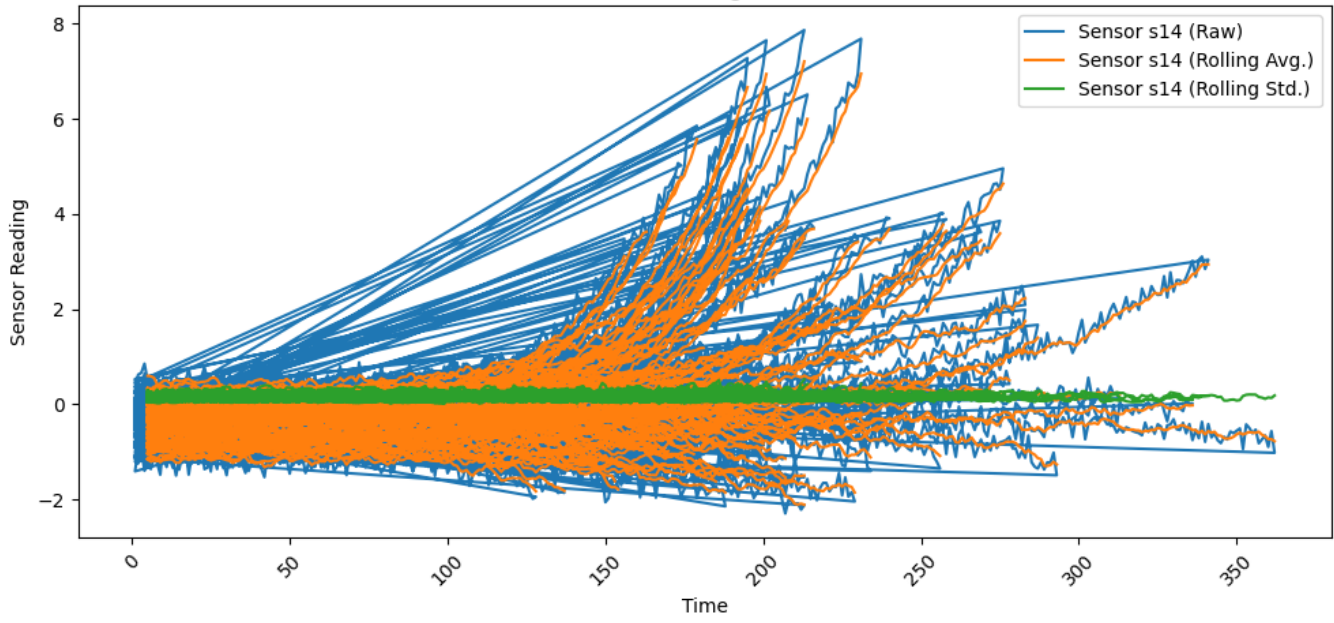
Sensor 12 Readings Over Time

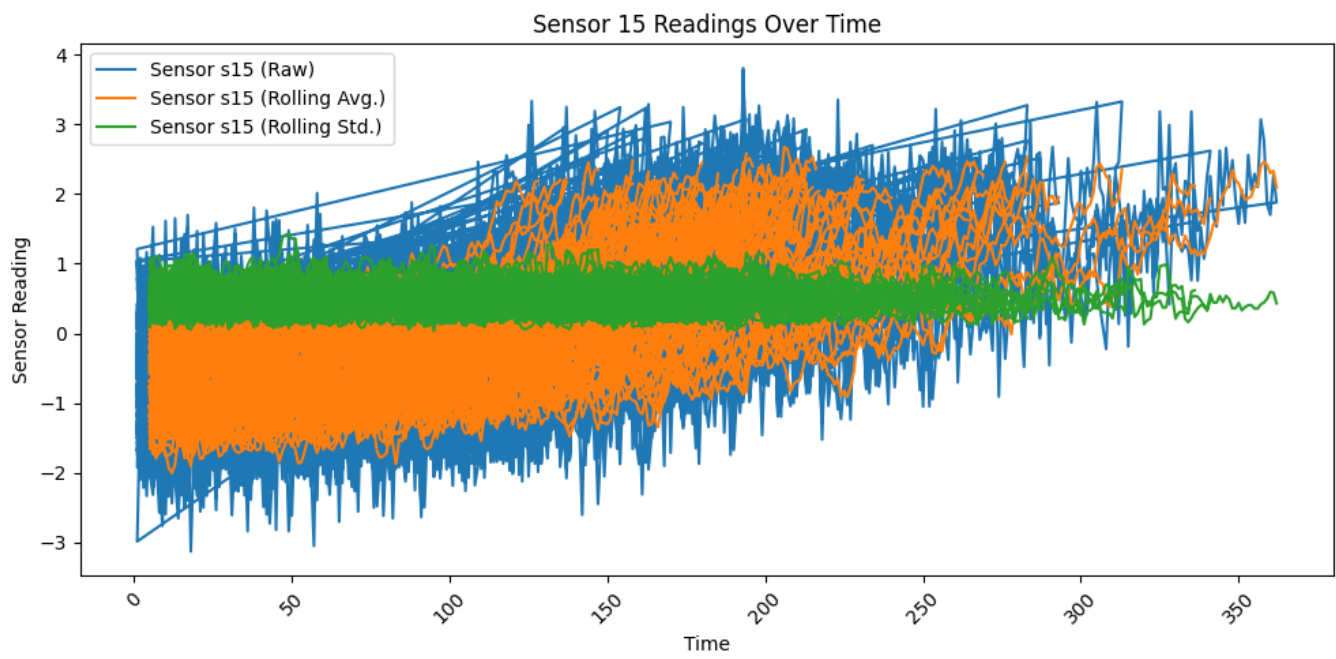


Sensor 13 Readings Over Time

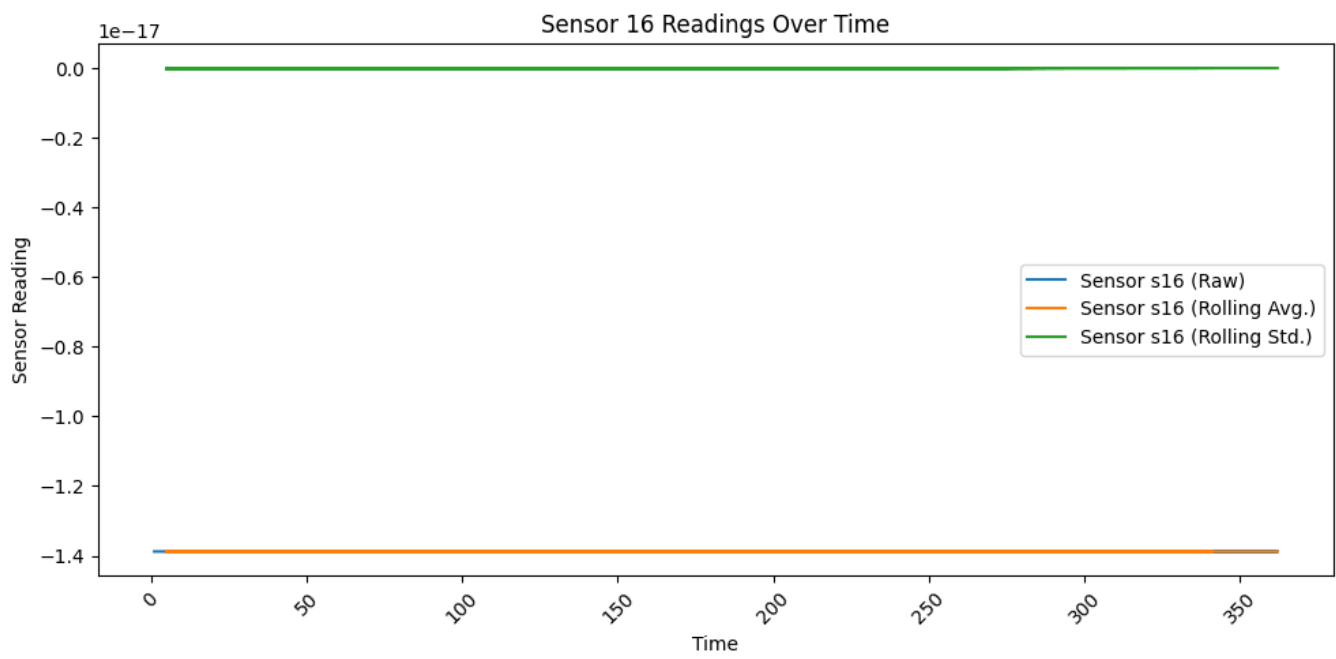


Sensor 14 Readings Over Time

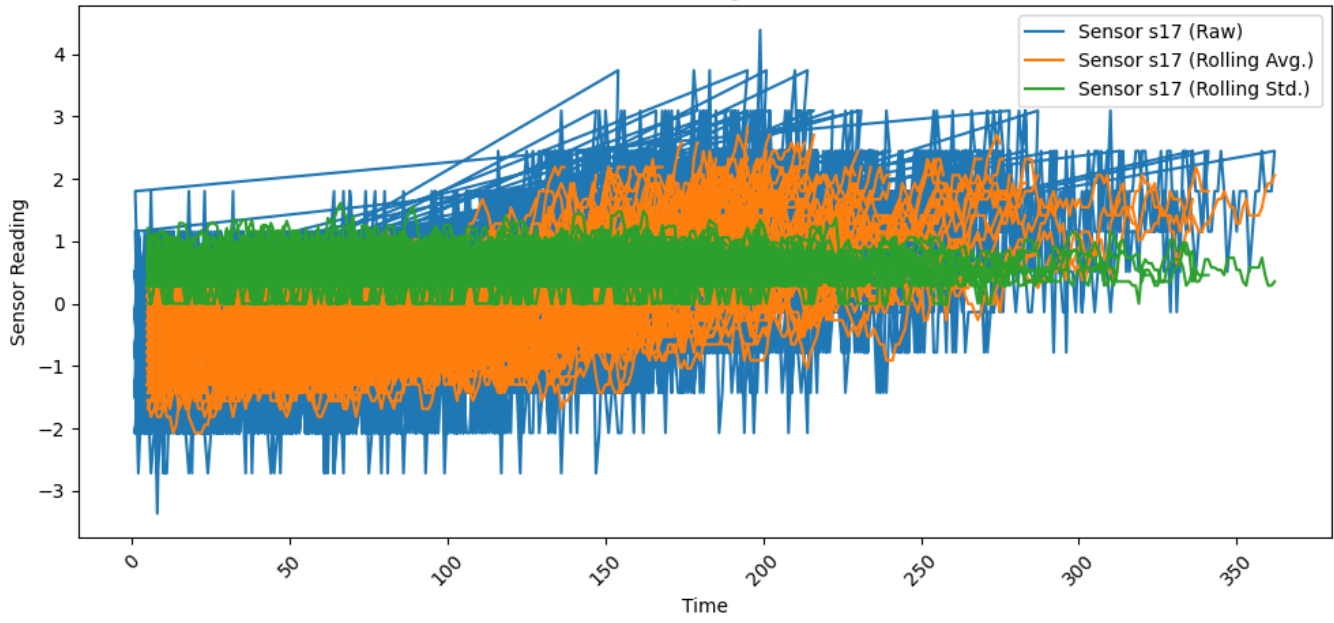


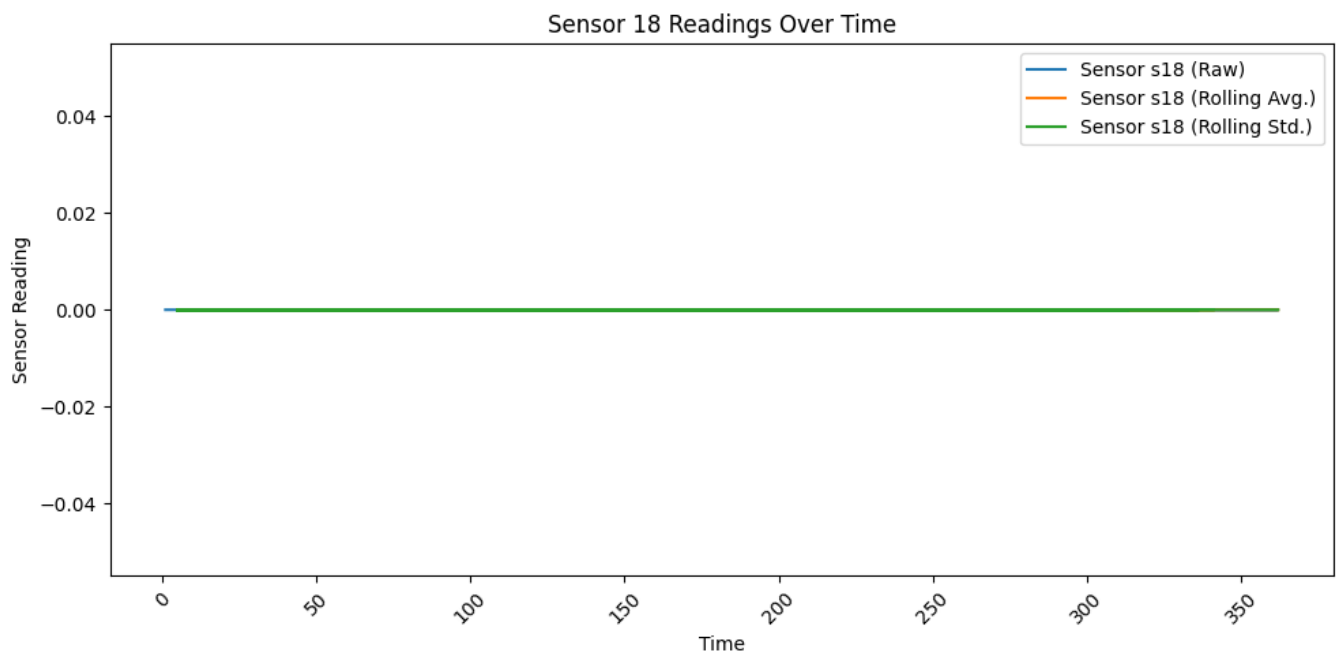


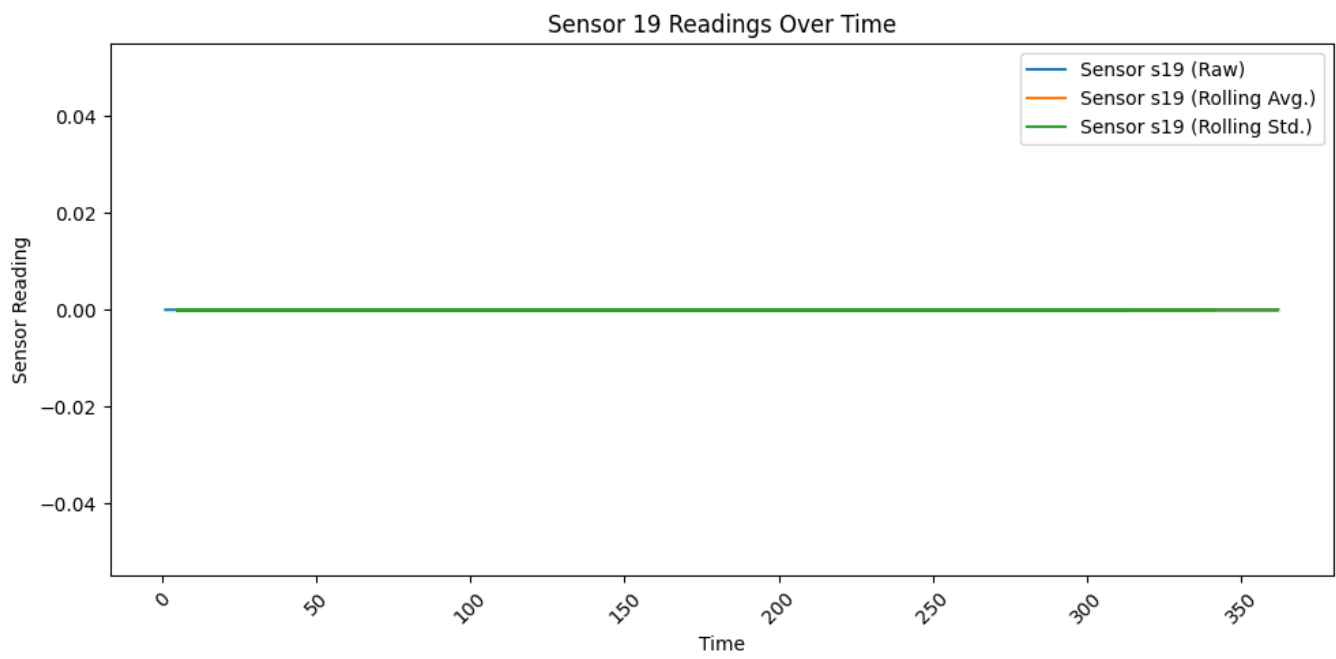


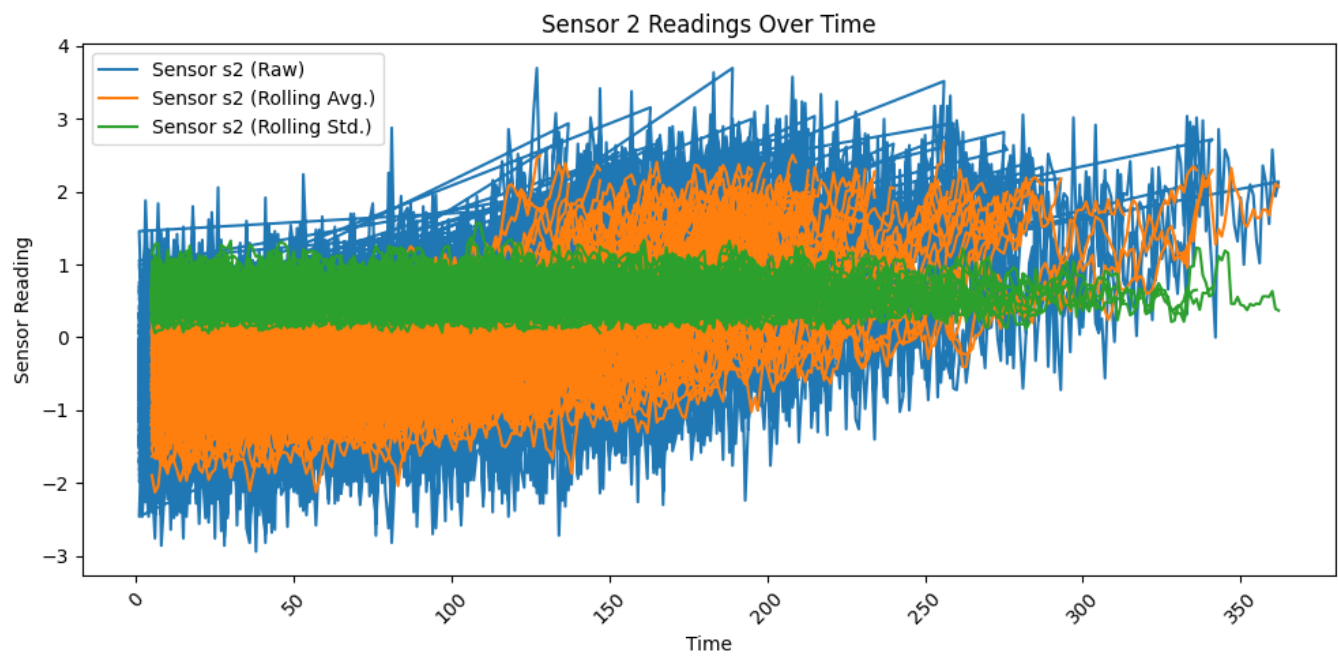


Sensor 17 Readings Over Time

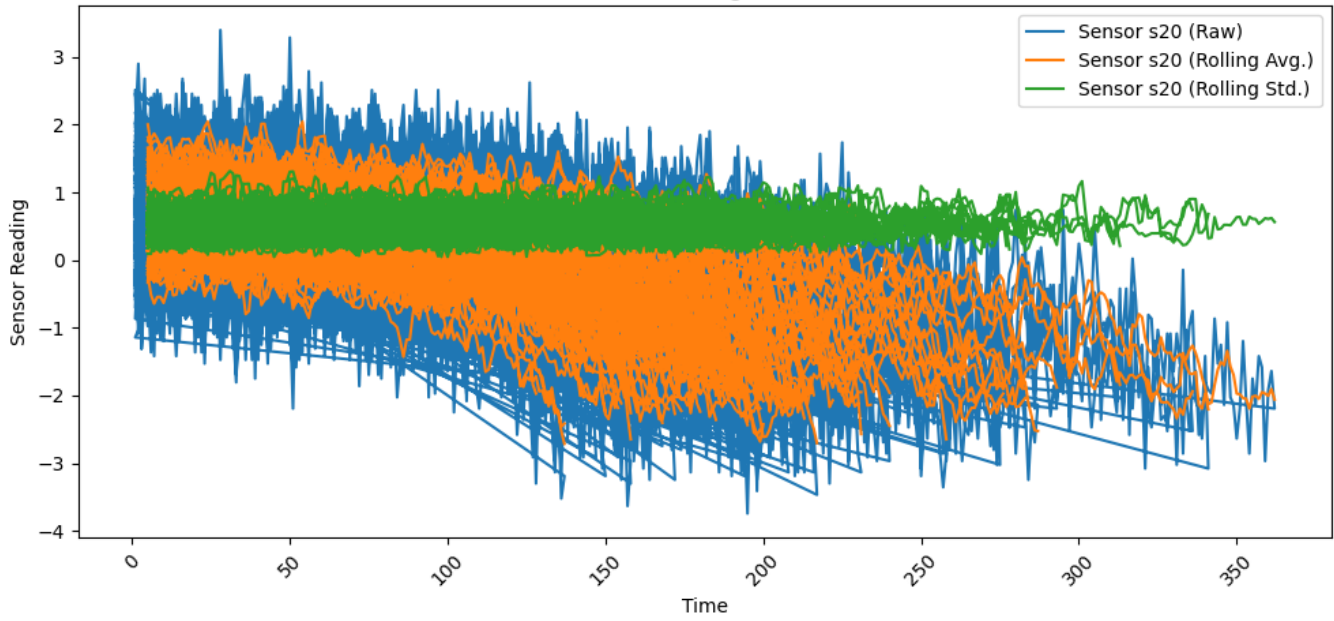


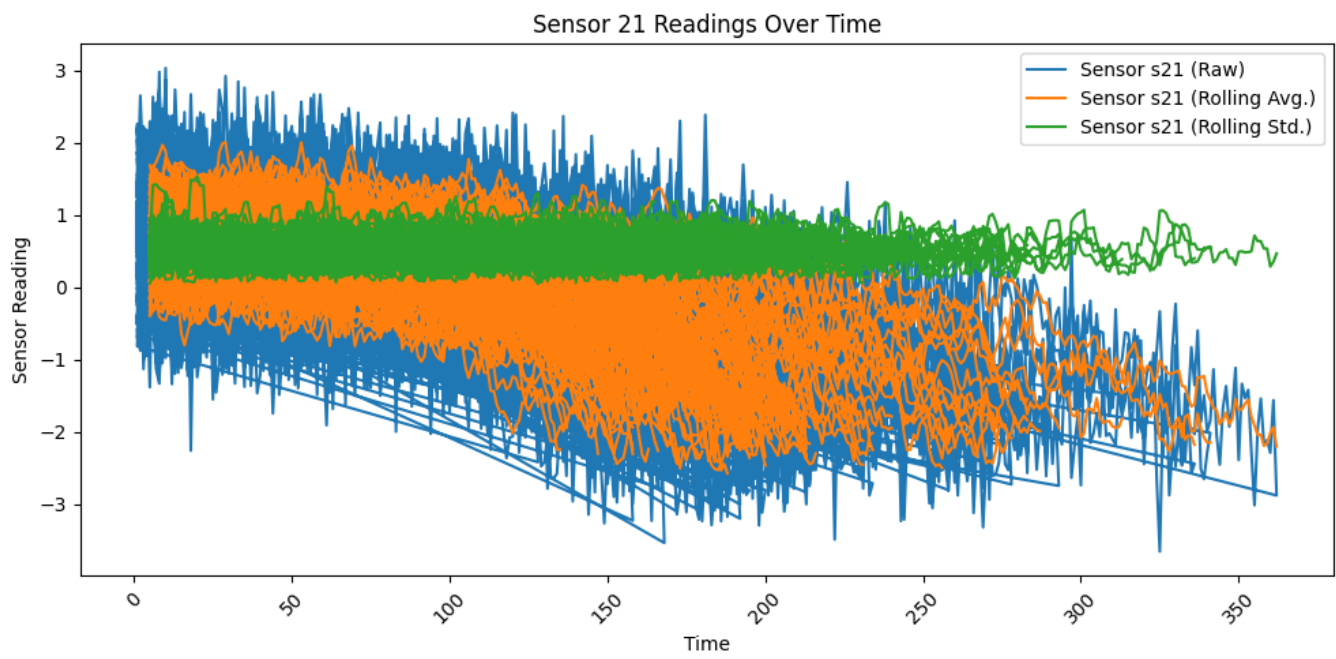




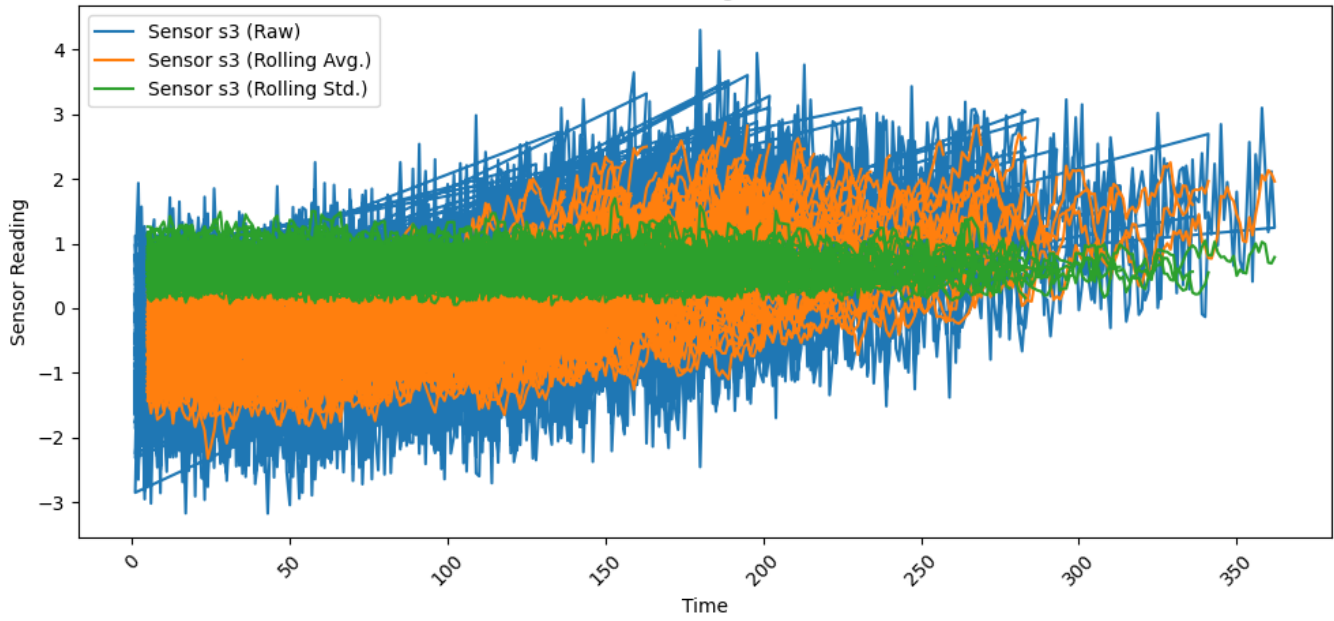


Sensor 20 Readings Over Time



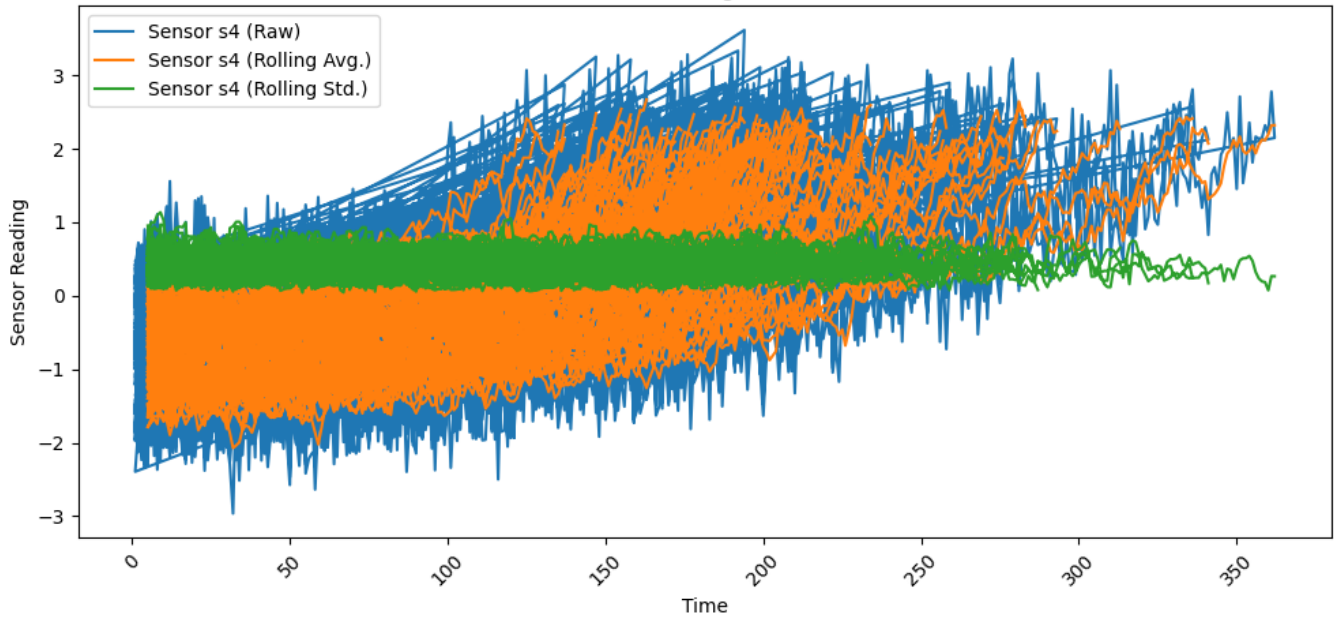


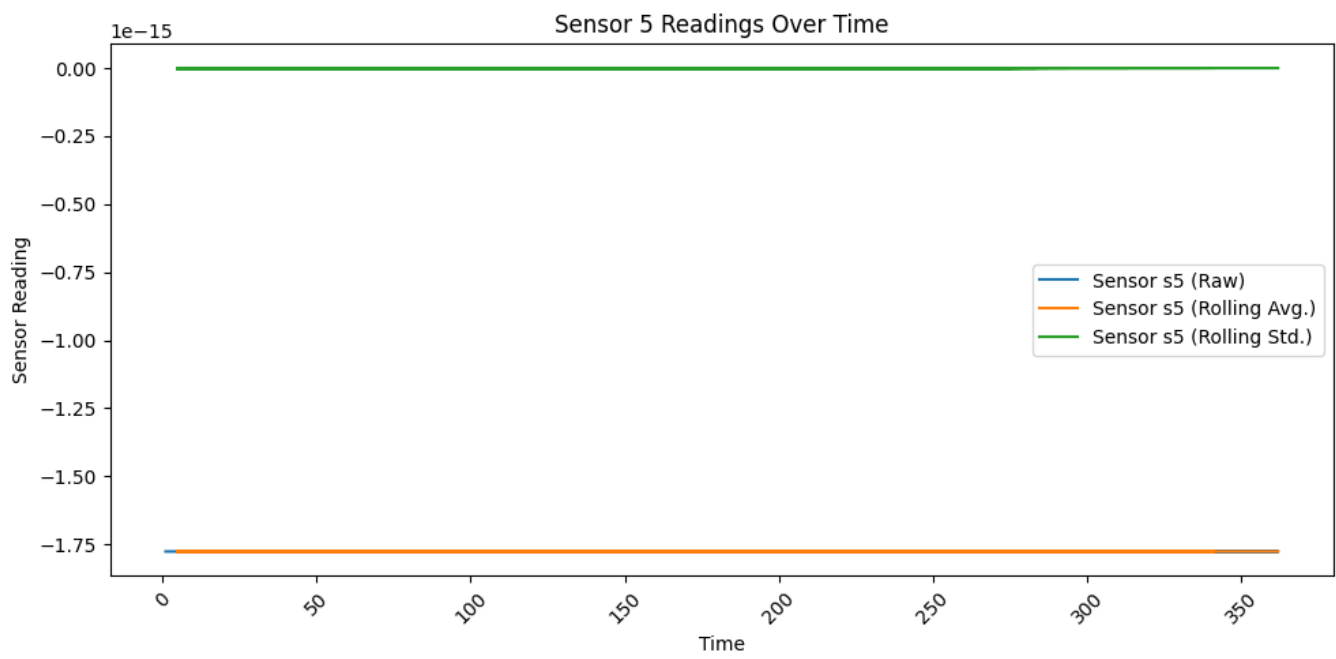
Sensor 3 Readings Over Time

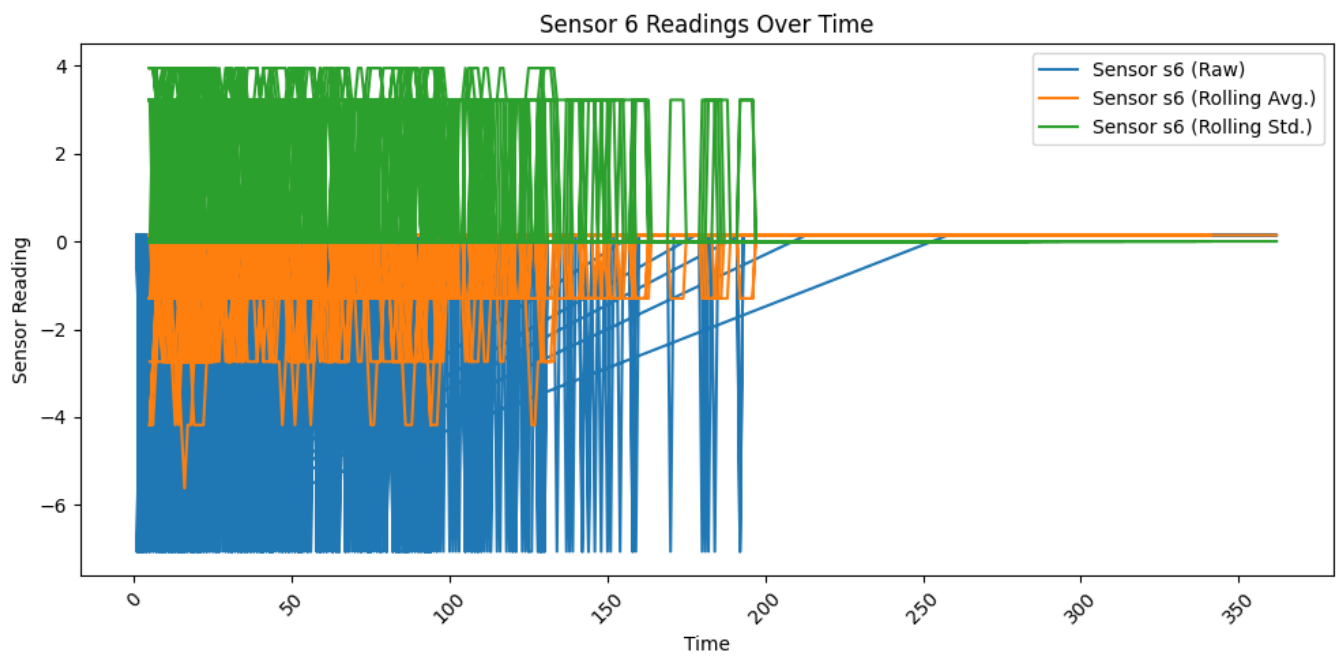




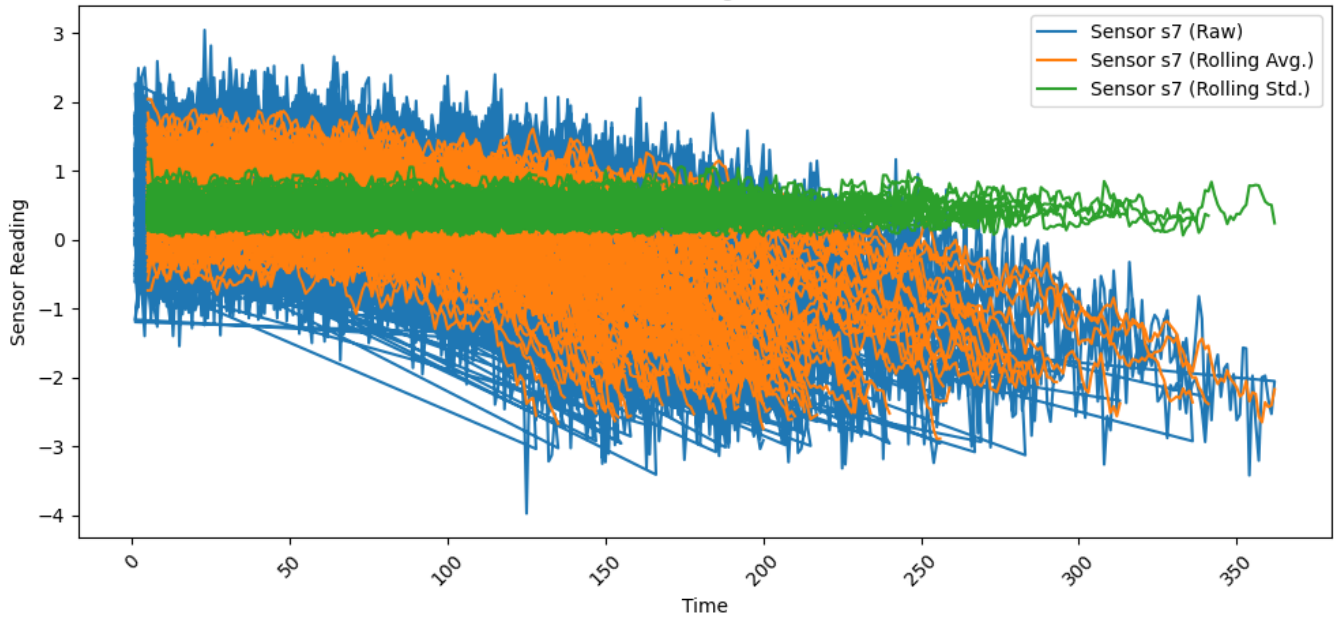
Sensor 4 Readings Over Time



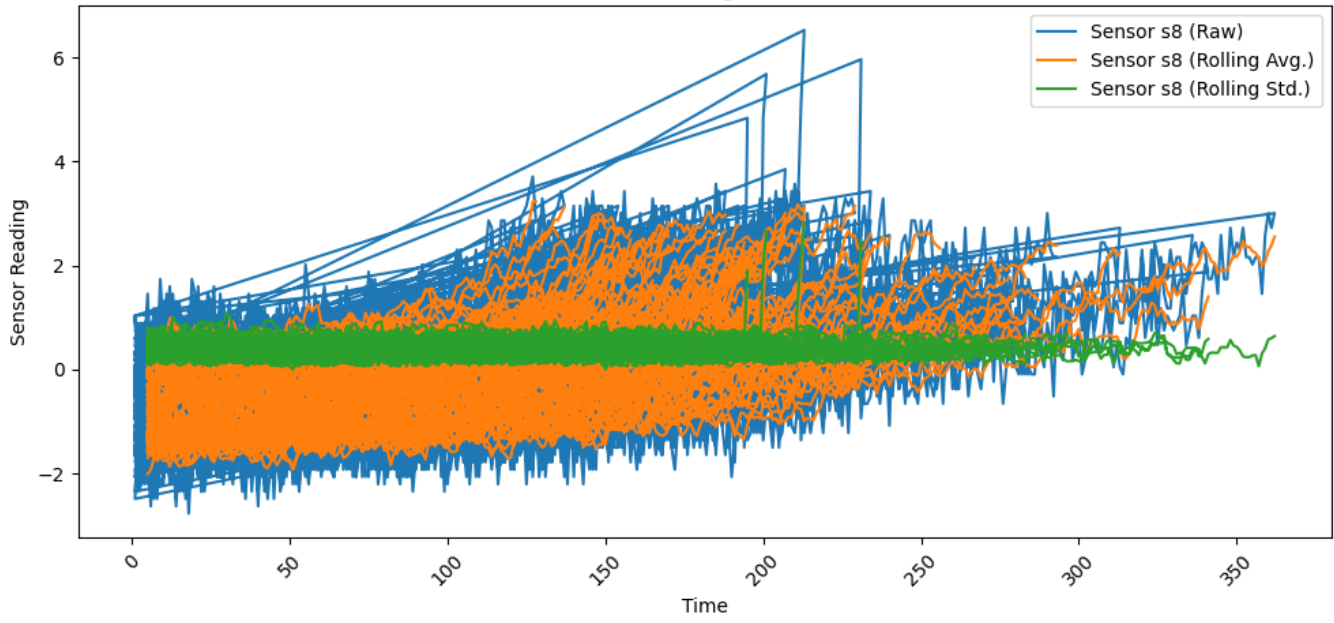




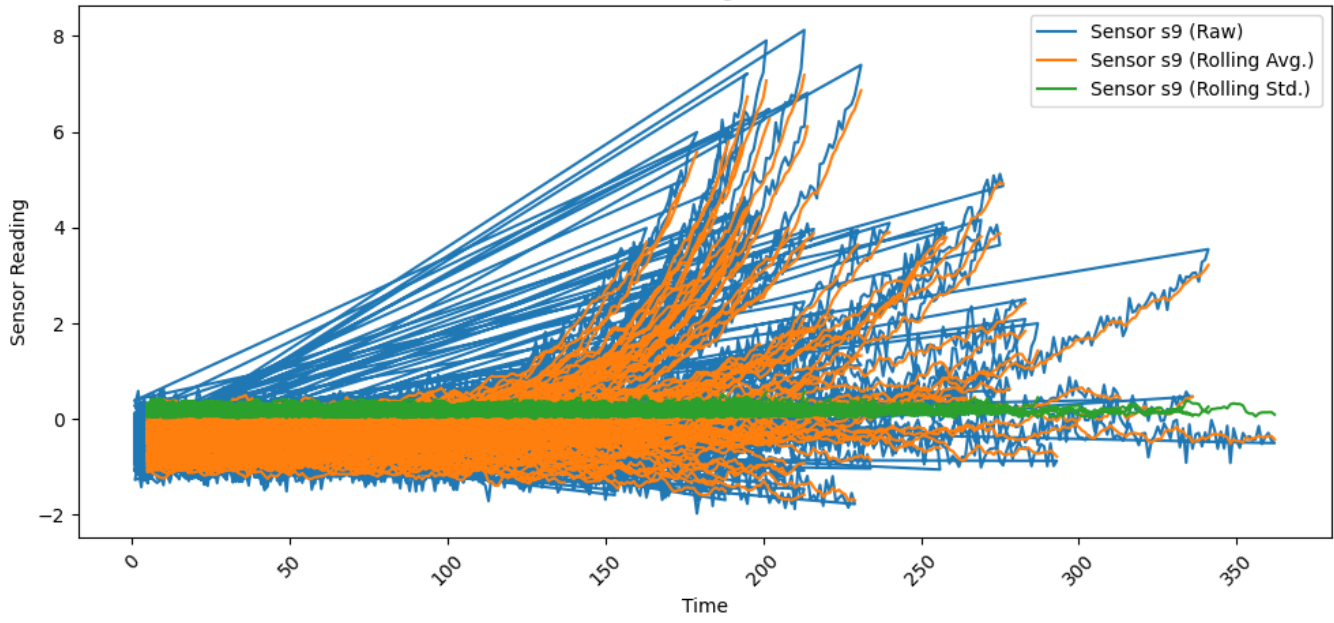
Sensor 7 Readings Over Time

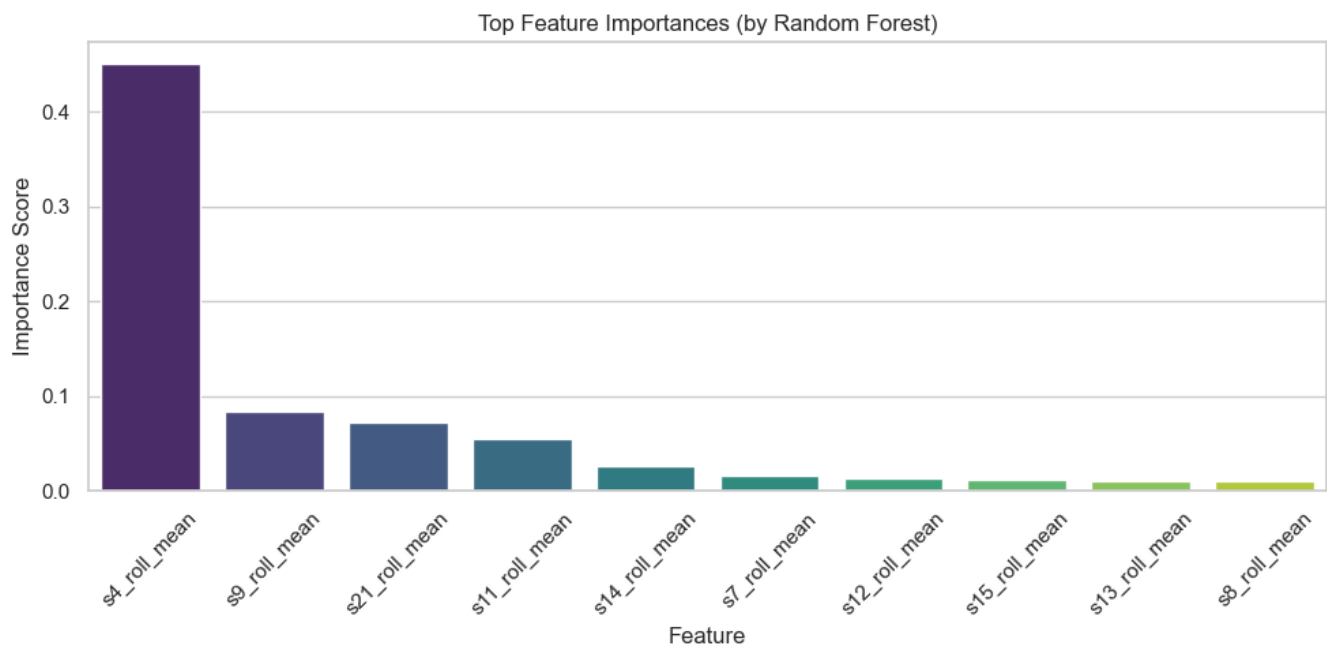


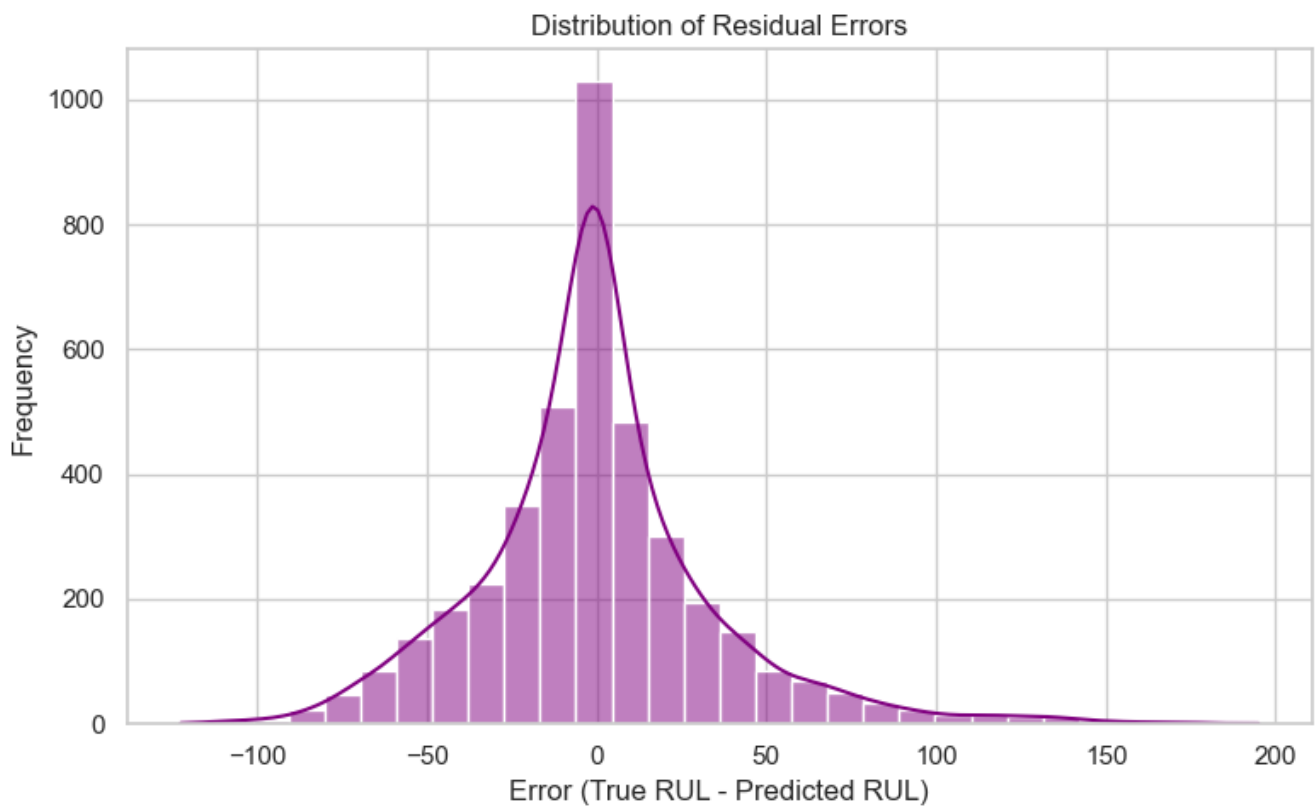
Sensor 8 Readings Over Time



Sensor 9 Readings Over Time









True vs. Predicted Remaining Useful Life

