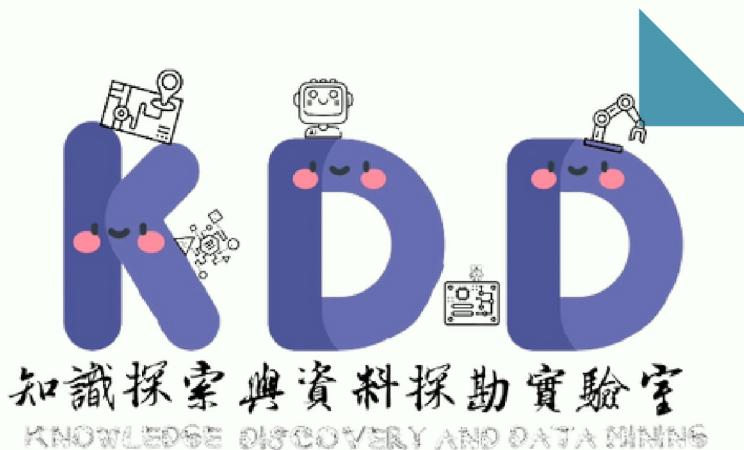




國立中興大學
NATIONAL
CHUNG HSING UNIVERSITY

Experimental Log

Smart Motorcycle Online Diagnosis
and Detection and Evaluation
System for Driving Behavior



Department of Electrical Engineering, National Chung Hsing University
Student: Yen, Wei-Liang (William)
Supervisor: Prof. Hsiao-Ping Tsai

Last week's review comments

- The data cannot be distinctly distinguished by turning left or right. Try smoothing the data.
- Using PCA does not necessarily require dimensionality reduction. Observe the importance of each feature.

Fixes and Improvements

Q: The data cannot be distinctly distinguished by turning left or right. Try smoothing the data.

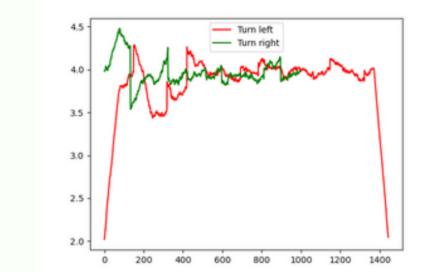
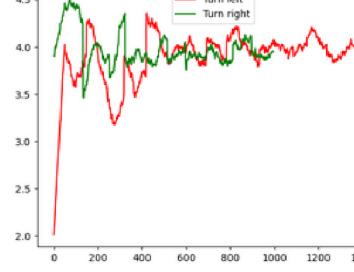
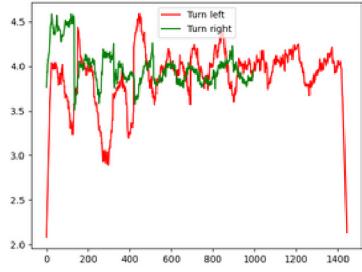
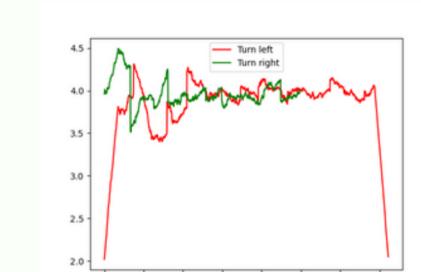
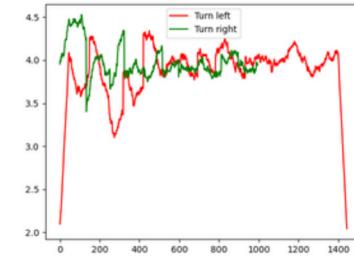
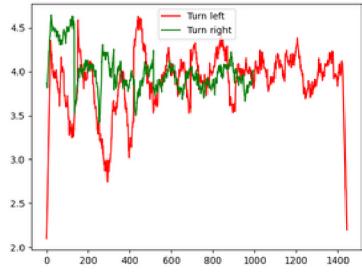
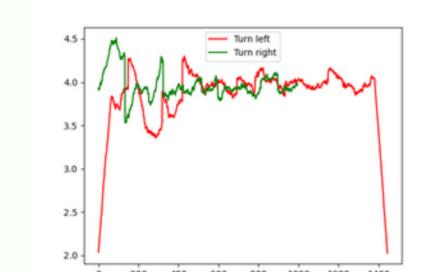
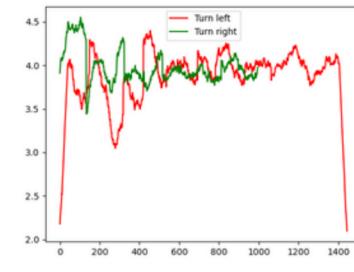
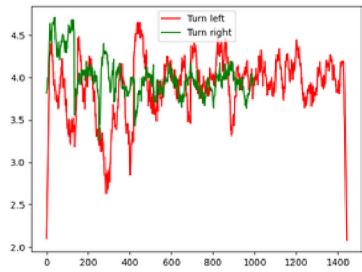
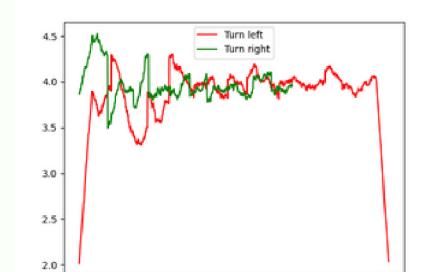
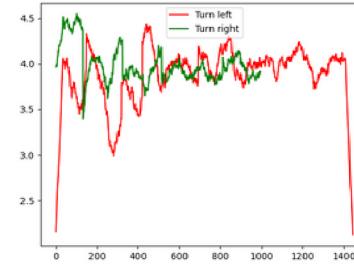
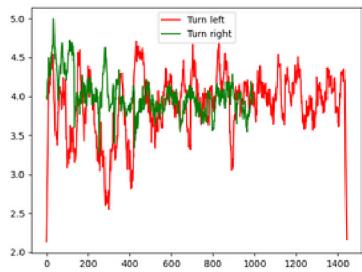
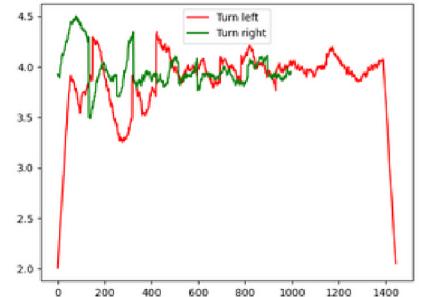
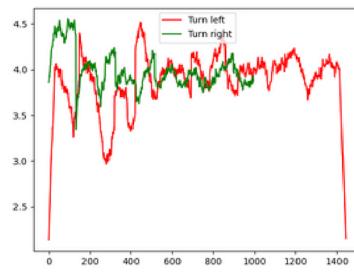
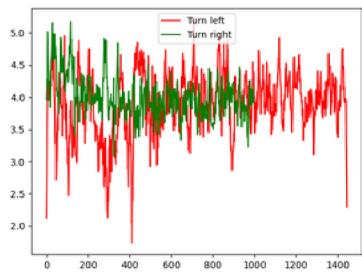
A: X-axis Angle



Fixes and Improvements

Q: The data cannot be distinctly distinguished by turning left or right. Try smoothing the data.

A: Y-axis Angle



Fixes and Improvements

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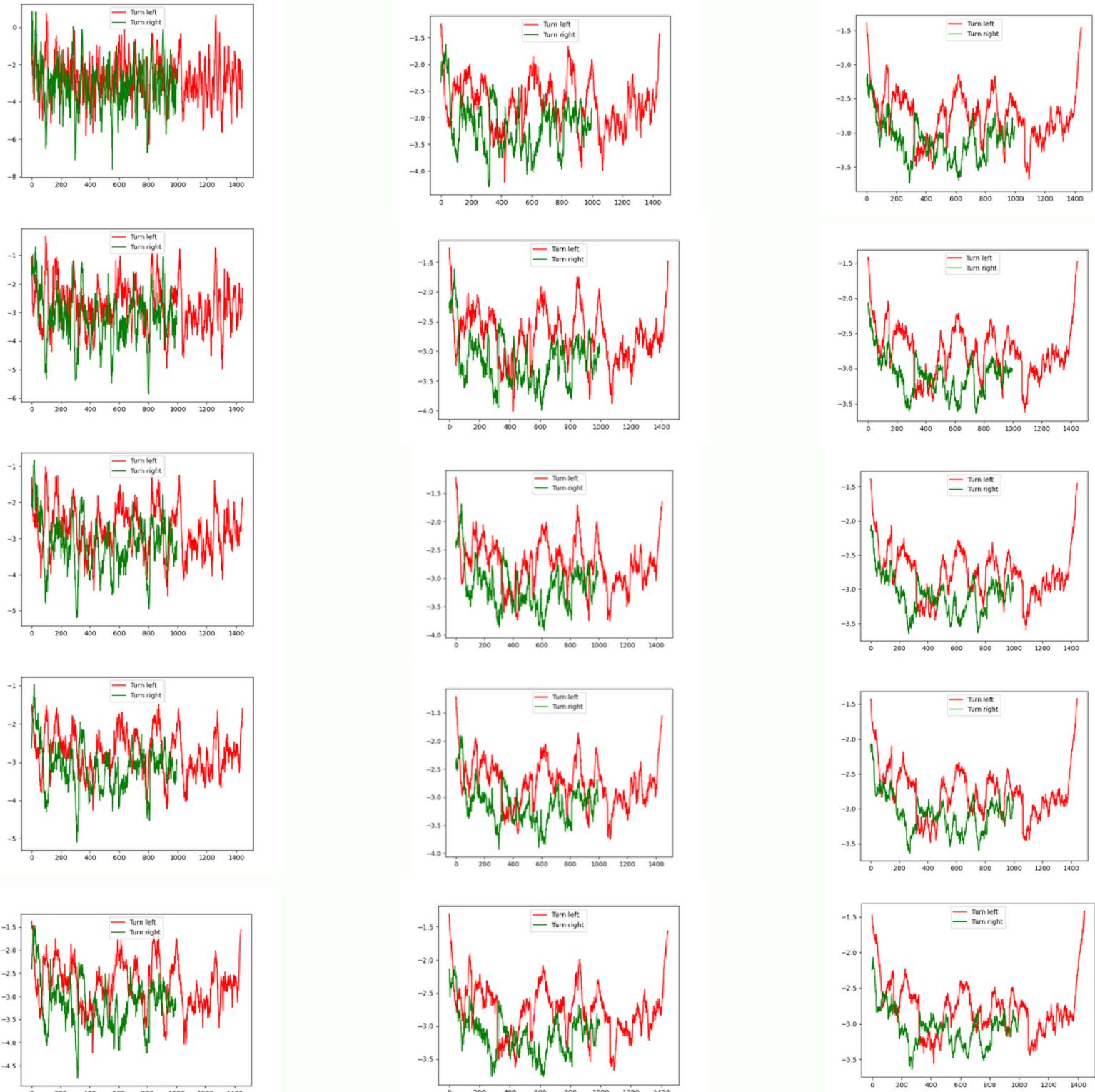
A: Z-axis Angle



Fixes and Improvements

Q: The data cannot be distinctly distinguished by turning left or right. Try smoothing the data.

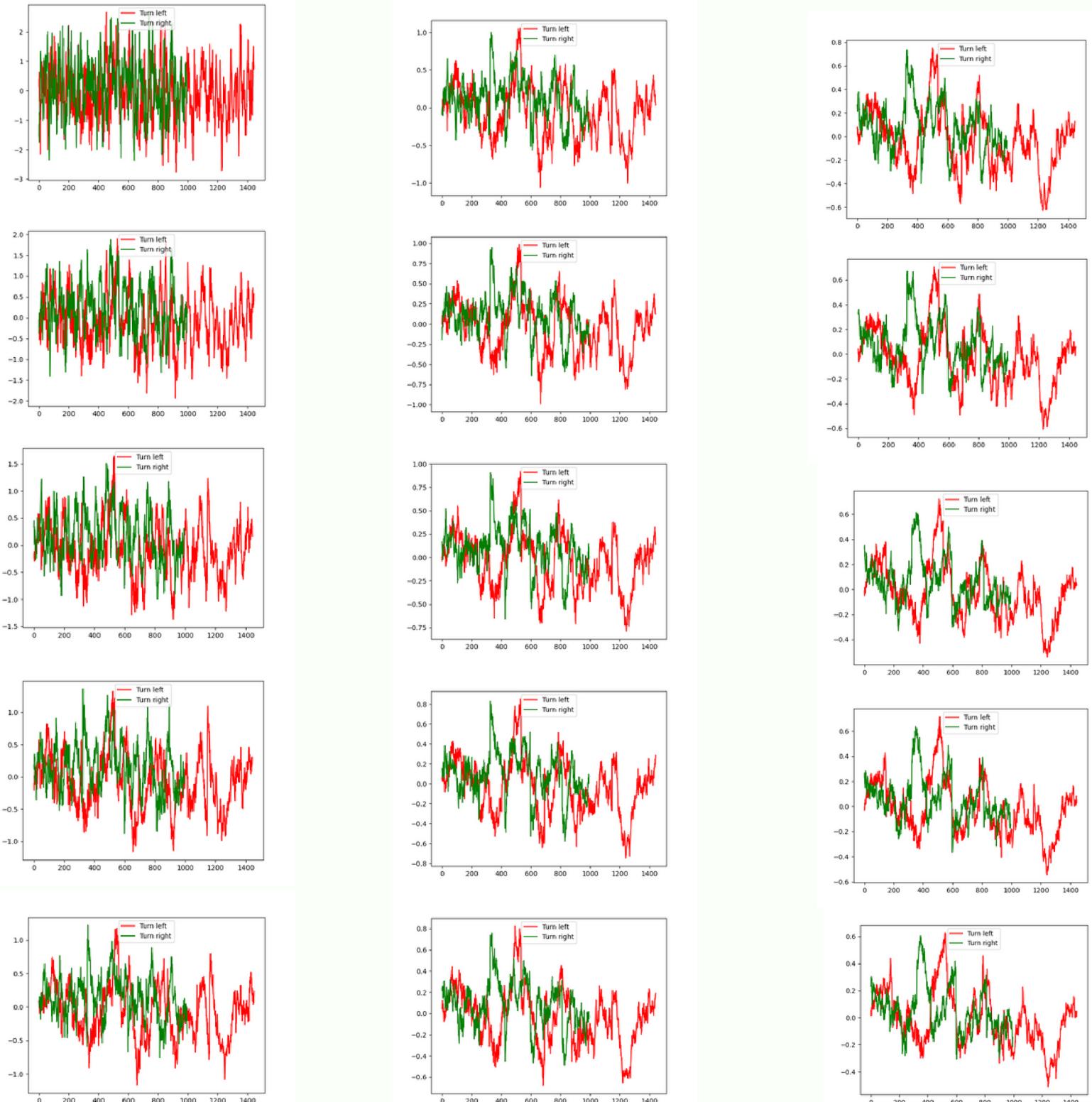
A: X-axis Acceleration



Fixes and Improvements

Q: The data cannot be distinctly distinguished by turning left or right. Try smoothing the data.

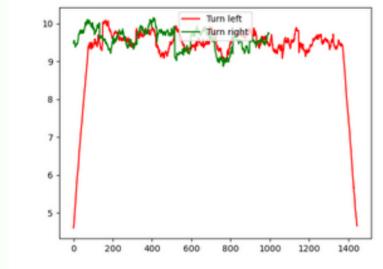
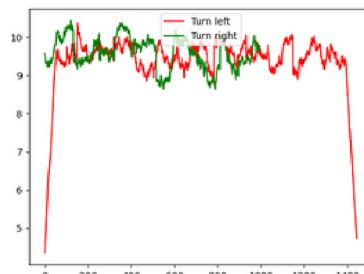
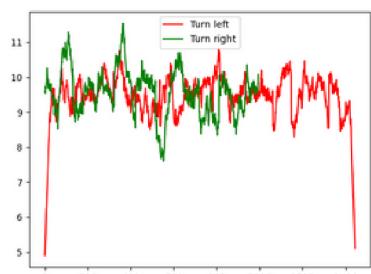
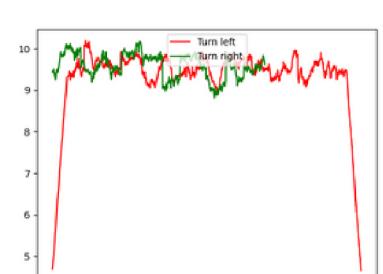
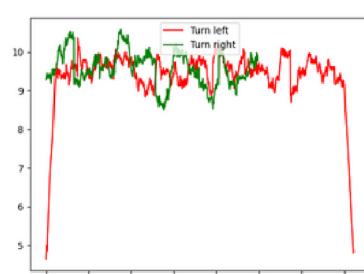
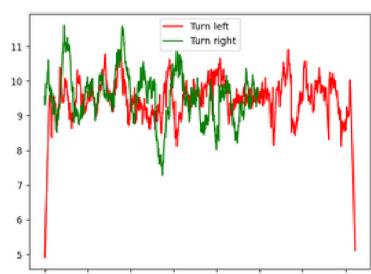
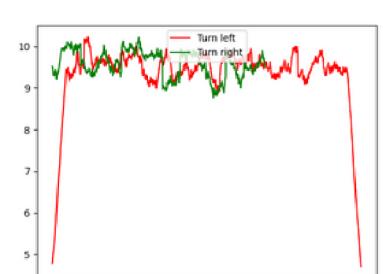
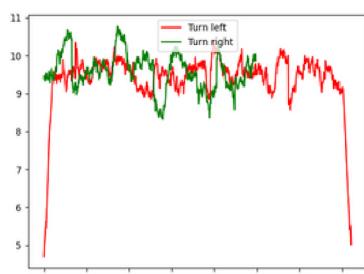
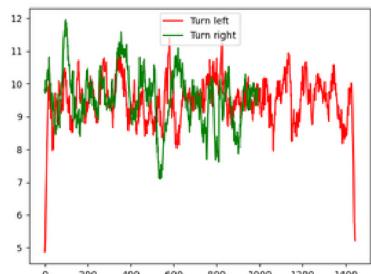
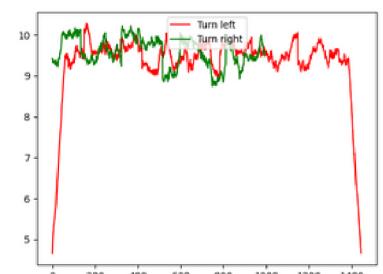
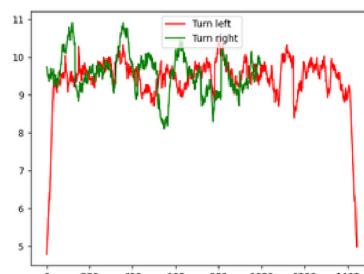
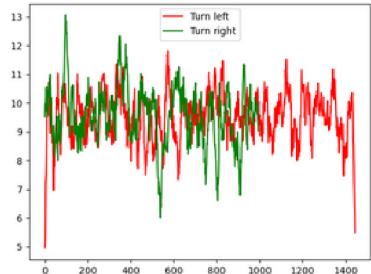
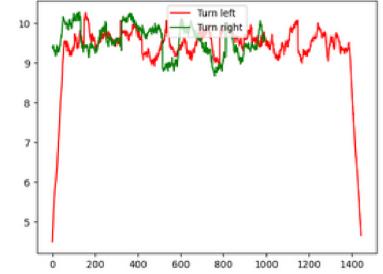
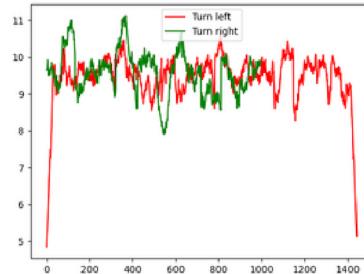
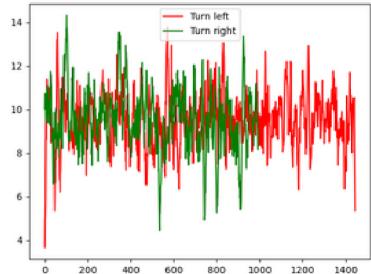
A: Y-axis Acceleration



Fixes and Improvements

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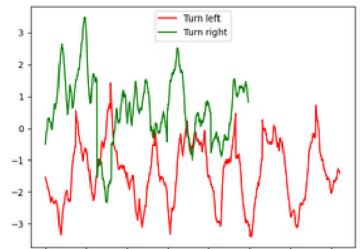
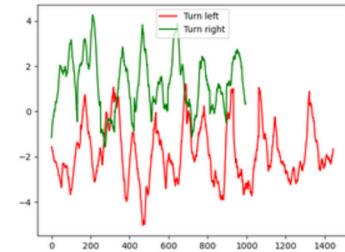
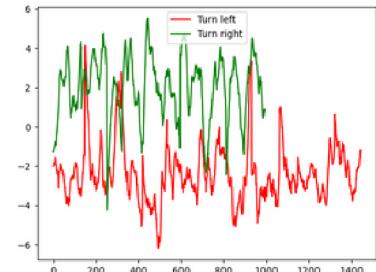
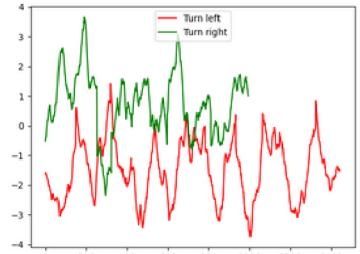
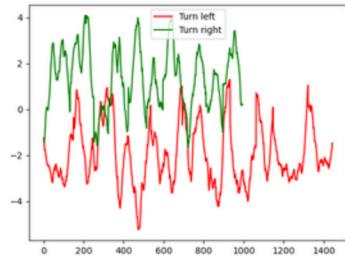
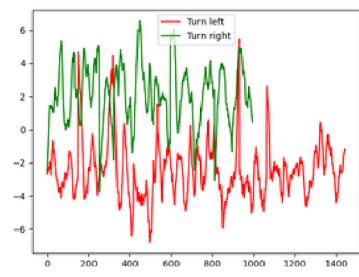
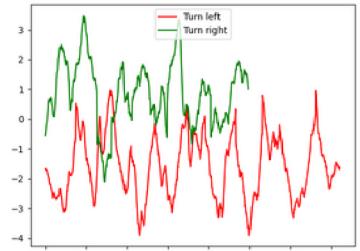
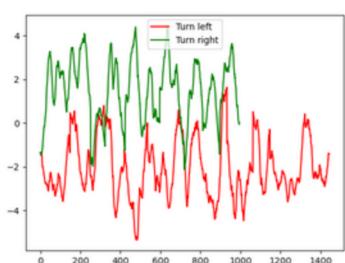
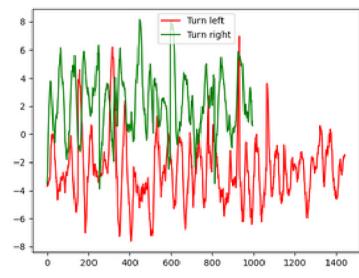
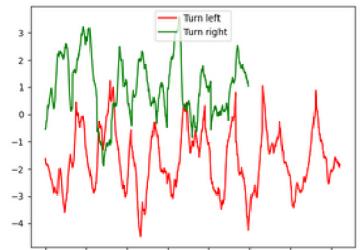
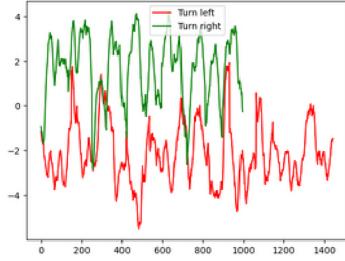
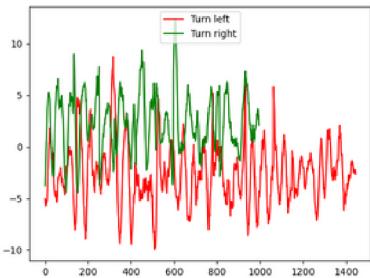
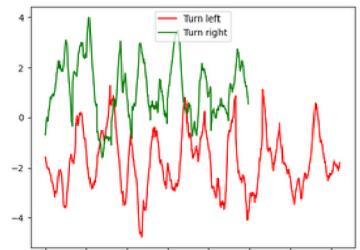
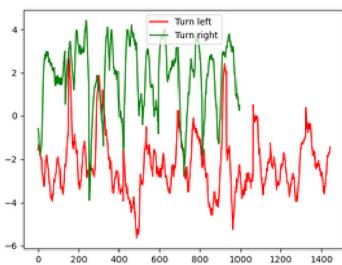
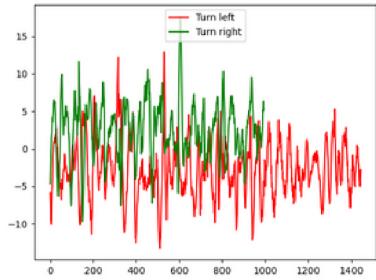
A: Z-axis Acceleration



Fixes and Improvements

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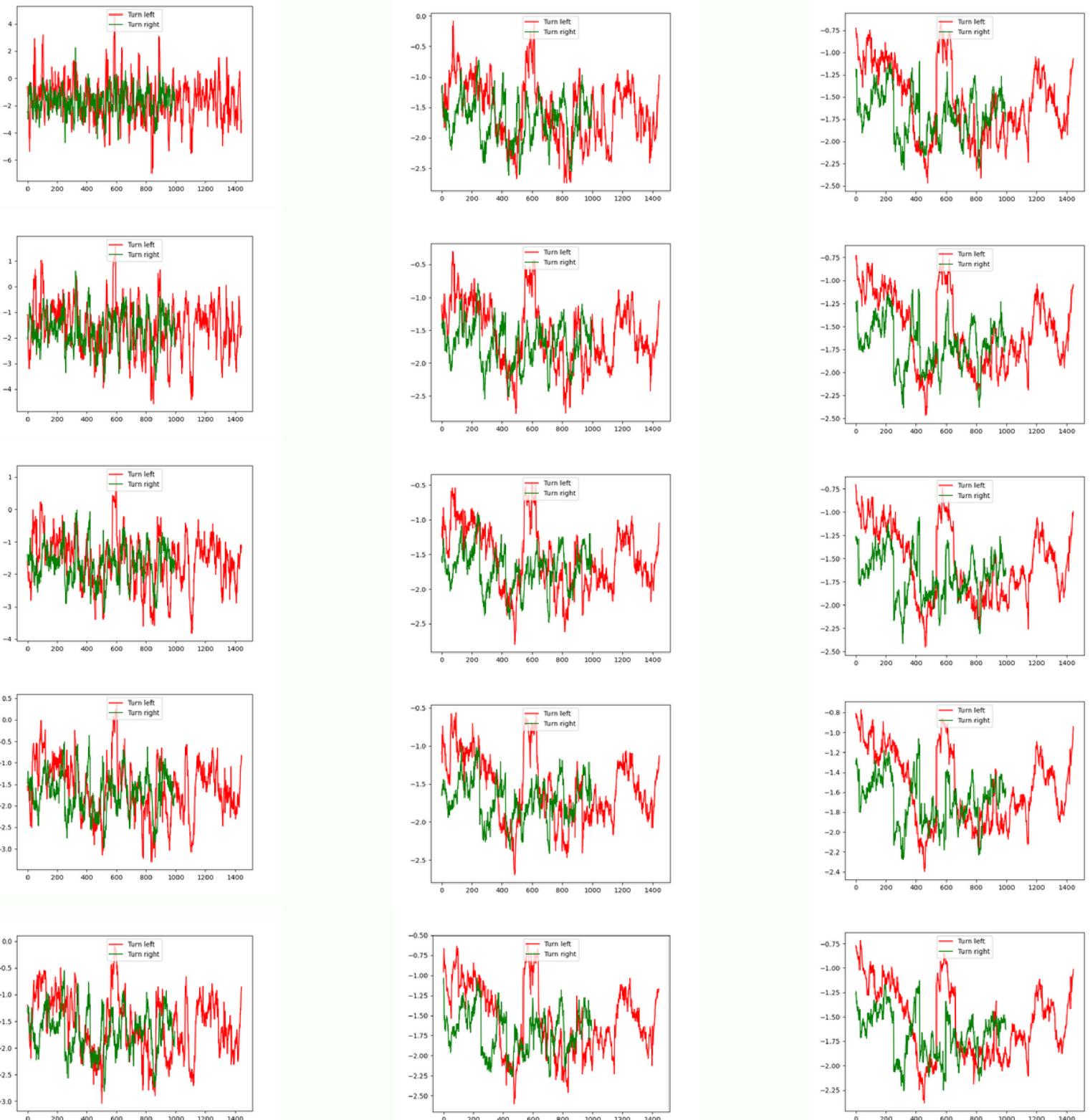
A: X-axis Angular Velocity



Fixes and Improvements

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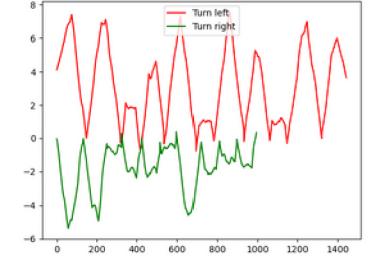
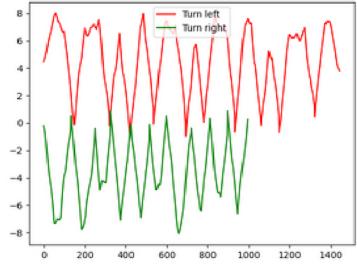
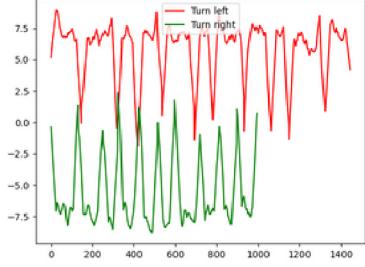
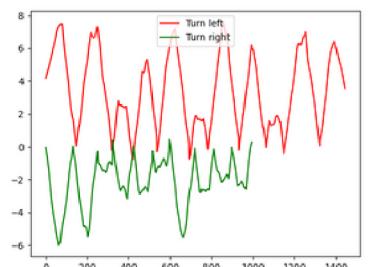
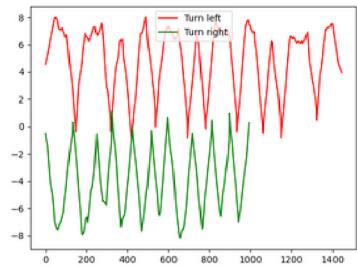
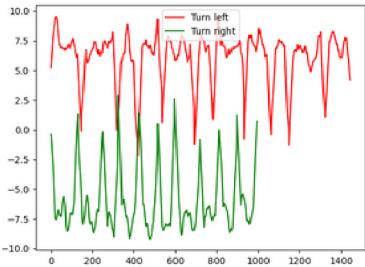
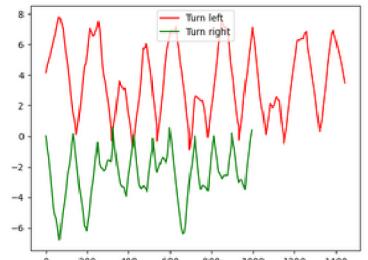
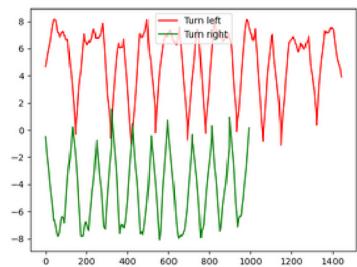
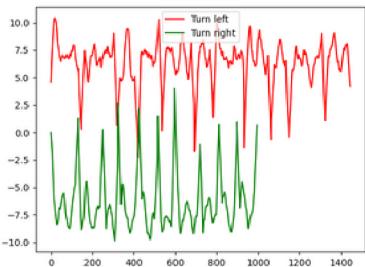
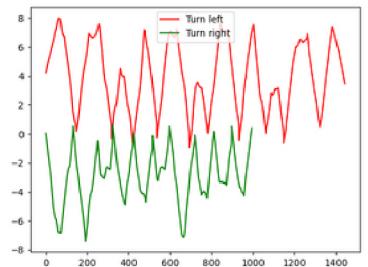
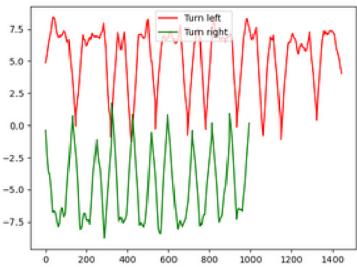
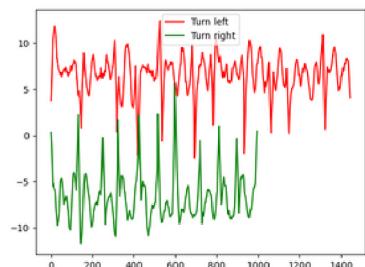
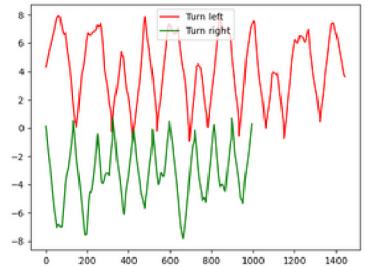
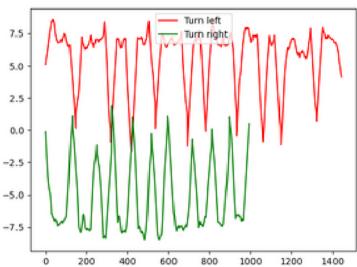
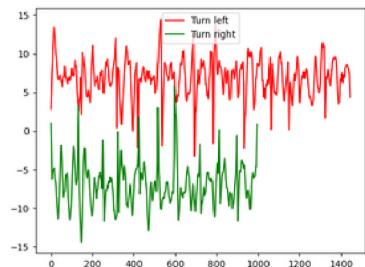
A: Y-axis Angular Velocity



Fixes and Improvements

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A: Z-axis Angular Velocity



Fixes and Improvements

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X_axis_Angular_Velocity_value: 12.130776299910728

Y_axis_Angular_Velocity_value: 11.42466464758244

Z_axis_Angular_Velocity_value: 12.10070282774914

X_axis_Acceleration_value: 9.956264051245613

Y_axis_Acceleration_value 9.874827244851177

Z_axis_Acceleration_value: 11.58218250083216

X_axis_Angle_value: 5.786495863162521

Y_axis_Angle_value: 3.3147212797039622

Z_axis_Angle_value: 2.1160063636395994

Progress this week