

CSCN8010-25F-Sec1-Foundations of Machine Learning Frameworks

Practical Lab 1:

Streaming Data for Predictive Maintenance with Linear Regression-Based Alerts

Context

In the **Data Stream Visualization Workshop**, you learned how to stream, store, and visualize industrial current data.

This lab extends that work: you will now implement **regression-based anomaly detection** to generate **alerts and errors** when currents deviate significantly from their expected values.

This task simulates a **Predictive Maintenance** scenario, where early alerts and errors can flag potential failures before they occur.

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Github repository Url:

<https://github.com/Lesley-w19/PracticalLab1.git>