Applying Machine Learning to Imbalanced Sensor Data

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Abstract

In this paper, various statistical methods useful in analyzing data generated by power stations are presented. Power stations like hydroelectric, nuclear or thermal etc. have a number of machines that work together and produce energy. Data collected from the sensors of these machines is used for measuring efficiency and performance of particular machines.

References


Index Terms

Computer Science
Artificial Intelligence

Keywords

Classification, Machine Learning, Confidence Interval, Imbalanced data, SMOTE, Cost Matrix, ROSE, Precision, AUC.