


CATS'23 Submission 7

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Submission 7

Title	Modular Analysis of Dataset Balancing Techniques For Binary Classification
Paper:	 (May 09, 22:33 GMT)
Author keywords	Imbalanced Balancing Oversampling Undersampling
Abstract	This paper presents a modular analysis of dataset balancing techniques for binary classification. The study's objective is to analyze the performance or check the necessity of different balancing techniques. Several balancing techniques, such as Random Oversampling, Random Undersampling, Synthetic Minority Oversampling Technique (SMOTE), NearMiss and Tomek Links, and their combinations are evaluated using performance metrics such as accuracy, macro F1-score, and Micro F1-Score. The results reveal that Balancing techniques are not really necessary and hardly impact the performance of a model especially in binary classification tasks. It is hoped that the findings will aid practitioners in making informed decisions in selecting balancing techniques for their problem domain.
Submitted	May 09, 22:33 GMT
Last update	

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Dear authors,

We received your submission to CATS'23 (2nd Computer Applications and Solutions (CATS'23)):

Authors : Albert Boateng, Sifat E. Jahan, Annajiat Alim Rasel, Md Impreeaj Hossain, Sk Rubayet Bin Mujahid and Hasan Al Mahmud Chowdhury

Title : Modular Analysis of Dataset Balancing Techniques For Binary Classification

Number : 7

The submission was uploaded by Albert Boateng <albert.boateng@g.bracu.ac.bd>. You can access it via the CATS'23

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Thank you for submitting to CATS'23.

Best regards,
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