Title: Handing imbalanced dataset with SMOTE and Random Sampling

Abstract: Data imbalance is one of the challenges that machine learning developers face. When working with binary classification problems, developers often encounter imbalanced datasets. This scenario is typical in many classification problems, such as fraud detection, spam filtering, rare disease discovery, hardware fault detection, and more. Class imbalance occurs when there is an unequal distribution of classes in a dataset, i.e., the number of data points in the negative class (majority class) is much larger than that of the positive class (minority class). In this talk, we will consider two sampling techniques used to handle dataset imbalance: Synthetic Minority Over-Sampling Technique (SMOTE) and Random Sampling.

Regards,
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