

A Generic Active Learning Framework for Class Imbalance Applications: Supplemental File

Aditya R. Bhattacharya¹
arb17b@my.fsu.edu

Ji Liu²
jliu@cs.rochester.edu

Shayok Chakraborty¹
shayok@cs.fsu.edu

¹ Department of Computer Science
Florida State University
Florida, USA

² Department of Computer Science
University of Rochester
New York, USA

1 Effect of Batch Size on Learning Performance

In this experiment, we studied the effect of batch size on the learning performance. We conducted experiments on the MNIST dataset with batch size 3, 5 and 10. The results are presented in Figure 1. The proposed algorithm consistently demonstrates impressive performance across all batch sizes. *SVM-AL* and *USBC* also depict good performance, but are outperformed by our method. The performance of *Random Sampling* is inconsistent across the different batch sizes.

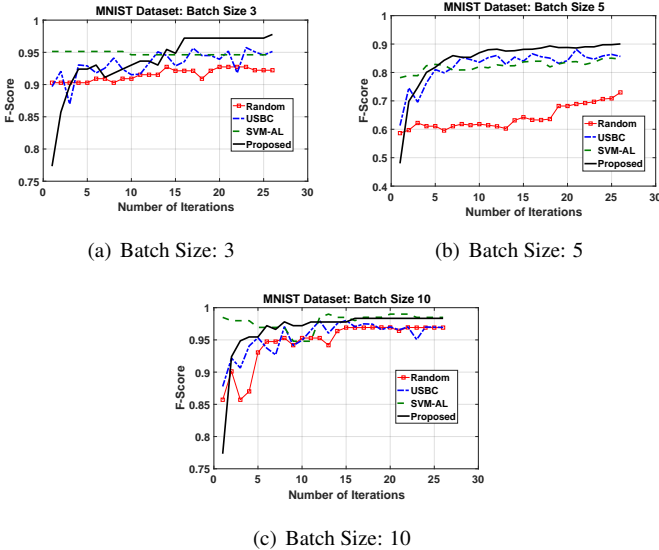


Figure 1: Study of batch size on the MNIST dataset. Best viewed in color.