Active Learning Augmentation

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Abstract goes here.

1 Introduction

Introduction goes here.

2 Data Augmentation Methods

Review on Data Augmentation Methods go here.

3 Methodology

Methodology goes here.

3.1 Datasets

Dataset description.

3.2 Machine Learning Algorithms

Classifiers and generators used.

3.3 Evaluation Metrics

Performance metrics.

3.4 Experimental Procedure

Experimental procedure.

3.5 Software Implementation

The experiment was implemented using the Python programming language, along with the Python libraries Scikit-Learn [1], Imbalanced-Learn [2], Geometric-SMOTE, Cluster-Over-Sampling, Research-Learn and ML-Research libraries. All functions, algorithms, experiments and results are provided in the GitHub repository of the project.

4 Results & Discussion

4.1 Results

4.2 Statistical Analysis

4.3 Discussion

5 Conclusion

References

[1] F. Pedregosa, G. Varoquaux, A. Gramfort, V. Michel, B. Thirion, O. Grisel, M. Blondel, P. Prettenhofer, R. Weiss, V. Dubourg, J. Vanderplas, A. Passos, D. Cournapeau, M. Brucher, M. Perrot, and É. Duchesnay, "Scikit-learn: Machine Learning in Python," *Journal of Machine Learning Research*, vol. 12, no. Oct, pp. 2825–2830, 2011.

[2] G. Lemaître, F. Nogueira, and C. K. Aridas, "Imbalanced-learn: A python toolbox to tackle the curse of imbalanced datasets in machine learning," *Journal of Machine Learning Research*, vol. 18, no. 17, pp. 1–5, 2017.