Comparison of Artificial Neural Networks

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***Abstract*—Artificial Neural Networks (ANN) have been used as a workhorse for classification and regression problems, particularly in large covariate spaces. ANN models are built around multiple parameters, which with very slight modifcation can yeild vast changes in model performance. In this paper, we explore several different models and the methods to compare them. We demonstrate these models and methods using a single layer, feed-forward network trained on well studied datasets, adjusting parameters, activation functions and learning algorithms.**

***Index Terms*—Neural Networksm, Machine Leaning, Feed Forward, Propigation**

I. Introduction

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II. Conclusion

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Acknowledgment

The author would like to thank the creators and maintainers of Python's Numpy packages.

References

[1] H. Kopka and P. W. Daly, *A Guide to LaTeX*, 3rd ed. Harlow, England: Addison-Wesley, 1999.