CE888 Assignment 1

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***Abstract*—The traditional unsupervised machine learning algorithms like k-Means, PCA and other linear factor models are proven to be very useful for many important applications. But in this day and age we are able to collect very complex, high dimensional data and these simple but efficient algorithms are failing to learn or represent it [1]. In this work we are going to use auto encoders to reduce the dimensions of three different datasets and try to extract good features using different activation functions. Then finally, we will cluster the data by using the extracted features and compare the results with the traditional techniques.**

I. Introduction

AUTO encoders are I wish you the best of success.

A. Subsection Heading Here

Subsection text here.

1) Subsubsection Heading Here: Subsubsection text here.

II. Conclusion

The conclusion goes here.

Appendix A
Proof of the First Zonklar Equation

Appendix one text goes here.

Appendix B

Appendix two text goes here.

Acknowledgment

The authors would like to thank...

References

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