Semi-Supervised Recursive Autoencoders

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Abstract

Recreate results of Socher et al. "Semi-Supervised Recursive Autoendcoders". Learning meanings of sentences using Feed Forward Neural Networks with Back-propogation.

1 Introduction

Socher et al. presented a semi-supervised method for learning meanings of sentences using recursive autoencoders [1].

The lecture notes state blah [2].

2 Recursive Autoencoders

Theory and derivations (e.g. gradients)

3 Experiments

3.1 Design

Setup, configuration, hyperparameters,

3.1.1 Datasets

3.1.2 Hyperparameters

3.2 Results and Discussion

Table 1: The description of the table shown. What does it look like if it's two lines tall? I wonder I wonder I wonder I wonderrrrrrrrrrr

Dataset	**Documents**	**Vocabulary**	α	β
Classic400	400	6205	0.01	0.1
KOS	400	6906	0.01	0.1

4 Conclusion

Final remarks

References

[1] R. Socher, J. Pennington, E. H. Huang, A. Y. Ng, and C. D. Manning, "Semi-Supervised Recursive Autoencoders for Predicting Sentiment Distributions," in *Proceedings of the 2011 Conference on Empirical Methods in Natural Language Processing (EMNLP)*, 2011.

[2] C. Elkan, "Learning meanings for sentences," February 2013.