
Compressed Sensing Project

A compressed sensing view of unsupervised text embeddings

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Introduction

- NLP low level tasks - NLP word embeddings - Text embeddings
 - Need for theory

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1 Text embeddings

1.1 Word embeddings

1.2 From word embeddings to text embeddings

1.2.1 LSTMs

1.2.2 Bag of n-Grams

1.2.3 DisC embeddings

1.3 Why text embeddings?

2 Text embedding as a Compressed Sensing problem

2.1 Results on compressed sensing for classification

2.2 Links with LSTMs

2.3 Sparse recovery with pretrained embeddings

3 Experiments and discussion

3.1 Results reproducing

3.2 Testing DisC embeddings on real life data

3.3 Discussion

References