

Text Technologies for Data Science Assignment 2

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1 Introduction

The purpose of this report is to analyse performance of algorithms used to compute similarities between documents.

2 Algorithm `brute.py`

This algorithm computes similarities between documents naively in $O(n^2)$ time, where n is the total number of documents. For every document it computes the similarity with every document we have already seen. It uses cosine similarity function with tf.idf weights.

3 Algorithm `index.py`

This algorithm uses an inverted index to compute similarities between documents. It does so in $O(n^2)$ as well.

4 Algorithm `best.py`

5 Conclusion