Cosine Similarity and Its Applications in AI

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Abstract

Choosing the right metric [1] can be crucial to designing performant artificial intelligence models. Thousands of packages and libraries have been built and written just for providing these metrics. Cosine similarity is one of many metrics used extensively in natural language processing and artificial intelligence tasks. The paper will introduce the technique and discuss its advantages and disadvantages as well as compare it to other approaches. Additionally, sample implementations of the above-mentioned approaches might also be provided.

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1   Introduction

Proin posuere suscipit ante, vitae eleifend nulla rhoncus in. Etiam vitae tellus vel augue porta consectetur in et risus. Nunc placerat in massa vel ultricies. In pharetra id odio vitae porttitor. Donec blandit tincidunt nunc, vitae dignissim massa semper in. Nulla facilisis imperdiet nisi dignissim suscipit. Proin auctor turpis vitae magna elementum, vitae imperdiet nunc blandit.

References

[1]   Rachel Thomas and David Uminsky. "The Problem with Metrics is a Fundamental Problem for AI". In: (2020). URL: https://arxiv.org/abs/2002.08512.