

Information Retrieval for Kafficho Language

Authors : Mareye Zeleke Mekonen

Abstract : The Kafficho language has distinct issues in information retrieval because of its restricted resources and dearth of standardized methods. In this endeavor, with the cooperation and support of linguists and native speakers, we investigate the creation of information retrieval systems specifically designed for the Kafficho language. The Kafficho information retrieval system allows Kafficho speakers to access information easily in an efficient and effective way. Our objective is to conduct an information retrieval experiment using 220 Kafficho text files, including fifteen sample questions. Tokenization, normalization, stop word removal, stemming, and other data pre-processing chores, together with additional tasks like term weighting, were prerequisites for the vector space model to represent each page and a particular query. The three well-known measurement metrics we used for our word were Precision, Recall, and and F-measure, with values of 87%, 28%, and 35%, respectively. This demonstrates how well the Kafficho information retrieval system performed well while utilizing the vector space paradigm.

Keywords : Kafficho, information retrieval, stemming, vector space

Conference Title : ICIM 2024 : International Conference on Information and Management

Conference Location : Athens, Greece

Conference Dates : April 04-05, 2024