HOMONYMY DETECTION USING A NAÏVE BAYES CLASSIFIER

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ABSTRACT

One of the important issues of natural language processing is the semantic differentiation of homonyms. Methods based on machine learning play a special role in solving this problem. Naive Bayes classifier is one of the important machine learning methods. When eliminating homonymy between different and grammatically similar groups of words in the Uzbek language, the naive Bayes classifier differs from other methods in its simplicity and speed. This article describes in detail the processes of using a naive Bayes classifier to identify homonymy between grammatically similar groups of words in the Uzbek language.

KEYWORDS: Natural Language Processing, Homonymy, Naive Bayes Classifier, Text Classification, Prior and Posterior Probabilities, Scikit Learning Library.

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