

عنوان مقاله:

A Comparison Between Naïve Bayes Classifier and EM Algorithm

محل انتشار:

دومین همایش ملی پژوهش های کاربردی در علوم کامپیوتر و فناوری اطلاعات (سال: 1393)

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خلاصه مقاله:

in this work we would study and compare two algorithms from Bayesian reasoning family. Bayesian reasoning is based on the assumption that the quantities of interest are governed by probability distributions and that optimal decisions can be made by reasoning about these probabilities together with observed data. In this study we would try to compare EM algorithm and Naïve Bayes classifier by detecting their weaknesses and present good solutions for them. Some of these weaknesses expressed in previous works such as initializing the parameters in Naïve Bayes classifier. In these situations we tried to present a more efficient solution than before works. Some of these weaknesses expressed for first time in this paper such as the problem of means equality of two or more clusters.

کلمات کلیدی:

EM algorithm; Naïve Bayes classifier

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