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Evaluating Reasoning in Factoid based Question Answering System by Using Machine Learning Approach

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Abstract:

in this paper; we present a closed domain factoid question answering system focusing on a why type Questions that can generate the answers of subjective type questions. The reasons we work on this research is that we want to show the system on what bases the why type Answers are generated this is because the strong requirement to satisfied in the early phase of system development. we follow the knowledge-based approach using TF-IDF algorithm and TF-IDF Vectorizer module we find that using the four parameter on the bases of because, neither, either, thoughts, and thus parameter is considered and lastly we present an evaluation of our system by giving precision, recall, & Accuracy of our system for why type questions.

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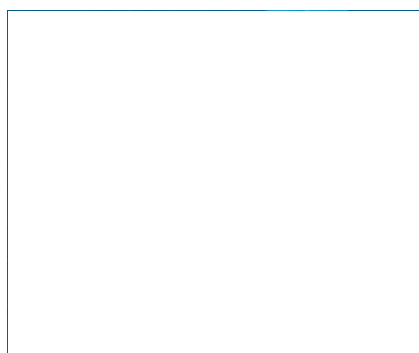
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Introduction

The aim of question answering system is to give succinct answers for a given questions it is a information retrieval task there are many application of Question Answering system like retrieving information from web, online examination, education, health care, sports, geography, etc. Presently there are many QA system Answering for open domain and closed domain research in closed domain is old one compared to open domain. The first closed domain question answering developed in 1961 is BASEBALL[1] today's scenario is more elaborated and more work in closed domain because of restriction, specification in the area. User needs answers very specific, precise and succinct. These recent trends in QA have led to numerous studies focusing on presenting answers in a form which closely resembles a human answer. Online users are growing like anything users are of any kind and without the matter of age and the QA system could be implemented for offline users which can take full advantage. The requirements of intelligent answering system are of desperate need of QA system.

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