Rule-based design for Anaphora Resolution of Marathi Sentence

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Abstract:
Understanding the natural language is difficult for the computers because natural language is coherently ambiguous. Now-a-days resolving that ambiguity is the main task for the researcher. And one of such ambiguity is the anaphora resolution. Anaphora occurs frequently in the discourse. Anaphora resolution is a complex problem for the researcher. In the application of natural language processing like question answering system, text summarization, natural language generation and in many more application anaphora resolution is a must task. This paper presents the anaphora resolution for Marathi language. The work on anaphora resolution is performed on many Indian languages like, Hindi, Tamil, Telugu, Bengali, and Urdu etc. but not done on the Marathi language. This paper focuses on the Marathi demonstrative pronouns specifically for the name of the persons and trying to resolve the difficulty of the anaphora and the antecedent. For the resolution of anaphora, rule based structure is designed by taking into account the context of Marathi grammar.

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Contents

I. Introduction

Anaphora occurs frequently in the written text and spoken dialogues. Anaphora is described as cohesion which points back to some previous item. The pointing back word or the phrase is called as the anaphora and the entity to which it refers is its antecedent [1]. The antecedent of the anaphor is difficult to determine because there may be multitude possible antecedent in the given discourse. Anaphora interpretation requires the use of the context surrounding the anaphor. To determine the antecedent for the anaphora is called as the Anaphora Resolution. There are some approaches to anaphora resolution that are, Knowledge-rich approach, discourse based approach, hybrid approach, corpus based approach, knowledge-poor approach and the rule based approach.

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