Abstract

Part-of-speech tagging in Marathi language is a very complex task as Marathi is highly inflectional in nature & free word order language. In this paper we have demonstrated a rule-based Part-of-Speech tagger for Marathi Language. The hand-constructed rules that are learned from corpus and some manual addition after studying the grammar of Marathi language are added and that are used for developing the tagger. Disambiguation is done by analyzing
the linguistic feature of the word, its preceding word, its following word, etc. After testing the system with three data sets we got encouraging results. The accuracy of our system is of an average 78.82% after testing it on three different data sets.

References

- A. Bharati, V. Chaitanya and R. Sangal, &quot;Computational Linguistics in India: An Overview&quot;, Proceedings of the 38th Annual Meeting on Association for Computational Linguistics 2000, VOL 38; PART 1, PP 595-596

- F. M. Hasan, N. UzZaman, and M. Khan, "Comparison of Unigram, Bigram, HMM and Brill's POS Tagging Approaches for some South Asian Languages.", Proceedings of the Conference on Language and Technology (CLT07), Pakistan, August 7 - 11, 2007


**Index Terms**

Computer Science  
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**Keywords**

Pos Tagger  
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