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Patent Search

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Abstract:

ABSTRACT ANALYSIS OF MACHINE LEARNING INTEGRATED FRAMEWORK FOR ENGLISH COMMUNICATION IMPROVEMENT This paper presents an analysis of a Machin integrated framework for English Communication improvement. The proposed framework utilizes a combination of Natural Language Processing (NLP) techniques ar supervised learning algorithms to create a system that can identify the type of English communication errors with high accuracy. The main objectives of the system ar spoken language errors, categorize them, and automatically make corrections to the uttered sentence. To accomplish these objectives, a series of NLP modules were into the proposed framework. These include tokenization, part of speech (POS) tagging, syntax analysis and measurement of syntactic and semantic relationships. Ad supervised learning algorithms were employed in the feature selection of the identified language errors. The performance of the system was evaluated using a corpu conversation transcripts collected from users and was found to achieve an error detection accuracy (EDA) of 0.90. This demonstrates the effectiveness of the propose in helping English language speakers improve their communication skills. In addition, the proposed system also includes an interactive feedback model that can gene personalized feedback based on the end-user's verbal performance. An experimental evaluation was conducted on a real-world conversational dataset to evaluate th performance of the proposed model. The evaluation results show that the proposed model achieved significant performance improvements compared to generic de models, and its feedback model was able to provide personalized motivating comments to enhance users' English communication and speaking skills

Complete Specification

Description:FORM 2
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(39 of 1970)
&
THE PATENT RULES, 2003
Complete Specification
(See section10 and rule13)
1. Title of the Invention: ANALYSIS OF MACHINE LEARNING INTEGRATED FRAMEWORK FOR ENGLISH COMMUNICATION IMPROVEMENT

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