Speech can be described as an act of producing voice through the use of the vocal folds and vocal apparatus to create a linguistic act for conveying intended information. Speech is a subtle and rich communication that transfers not only the linguistic information, but also information about the personality and the emotional state of the speaker. The objective of this study is to analyse the effect of vocal characteristics like duration of vowels, mean pitch, jitter and shimmer of vowels in different Oriya spoken emotional speech uttered by female & male speakers. This paper also used FFBPNN as a classifier to identify an emotion out of five emotional categories such as Normal, Santa, Karuna, Raoudra, Shringar using Jitter and Shimmer variants as feature vectors. The supervised classifier achieved 86.88% accuracy rate in vowel domain. The emotional speech corpus is recorded from several semi-professionals actors within range of 22-35 years old.

References

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Vowel Analysis for Identifying Expression of Emotions in Odia-Spoken-Language


**Index Terms**

- Computer Science
- Pattern Recognition

**Keywords**

- Ffbpnn
- Jitter
- Shimmer
- Emotion