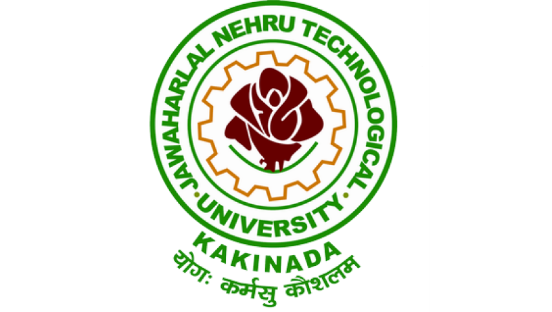
DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

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**Domain:** Machine Learning

**Title:** Short Text Emotion Detection using Multiclass SVM

**Abstract:**

Emotions capture the essence of the process of communication between people and electronic communication systems. Detecting Emotions improves the computer-generated response process for users. Emotions are expressed as joy, anger, sadness, fear, disgust, guilt, shame. Recognizing this type of emotion from a man-made text plays an important role in applications such as chat conversations, customer support forum, customer reviews.

Existing system uses the sampling algorithms to deal with multiclass data but it affects the time complexity of the system we found SVM has better solution to deal with multiclass data.

SVM scales relatively well to multiclass data. Multiclass Support Vector Machine, which can be used for classification problems with multiple classes. We perform vectorization process to convert text documents into numerical feature vectors for training our SVM model. In the proposed system we map the short text statement to a defined emotion.

Signature of the student Signature of the supervisor