

# Sentiment Analysis of Bengali Movie Reviews

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**Abstract**—Sentiment Analysis is a type of Natural Language Processing (NLP) that searches the internet for user sentiments in the form of reviews, comments, and other types of content. Nowadays, social media platforms such as Facebook, YouTube, Instagram and Twitter are extensively utilized to provide user evaluations on a variety of topics, including movies, news, food, fashion, politics, and much more. Reviews and opinions are important in determining a user's degree of satisfaction with a certain organization. The polarity, i.e. positive, negative, and neutral, is then determined using these. This paper discusses a method for conducting Sentiment Analysis on Bengali movie reviews. Dataset will be created by collecting Bangla movie reviews from social media. We will preprocess the data-set by removing all the stopwords. We will apply the SVM and Random Forest algorithm. After the implementation of algorithms we will evaluate the precision, recall and F-measure accuracy. The proposed approach would classify the reviews in Bangla language into two classes: Positive and negative and will also evaluate the performance of by working on the algorithm through different metrics.

**Index Terms**—Natural Language Processing, Sentiment Analysis, Banglish Text, , Gender Prediction, SVM, Random Forest, Machine Learning.