

## ***Sentiment Analysis pada Movie Review Menggunakan Feature Selection Mutual Information dan K-Nearest Neighbour Classifier***

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### **Abstract**

*Sentiment analysis is a new branch of text mining, which includes processing and extracting data in text form. Sentiment analysis has the aim of knowing whether the review is positive or negative. Sentiment analysis can also be used in a movie review. Through movie reviews, viewers can find out whether the quality of the film is good or not. To get information about movies, it takes a lot of effort for the audience to read a lot of movie reviews. Based on these conditions, making sentiment analysis on movie reviews an interesting topic, it is solved by machine learning. In this study, sentiment analysis is applied to the English-language movie review using the K-Nearest Neighbor method and feature selection mutual information. The dataset used is Polarity v2.0 from the Cornell movie review dataset. This study shows that the use of the K-Nearest Neighbor method and the Mutual Information feature selection get an accuracy value of 73.32% with a K value of 32 with a threshold limit of 0.04 and without using the Mutual Information feature selection an accuracy of 77.06%. This proves that the Mutual Information feature selection cannot improve performance on K-Nearest Neighbor*

**Keywords:** *K-Nearest Neighbor, Movie Review, Mutual Information, Sentiment analysis.*

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