

## ABSTRACT

*YouTube is one of the most widely used social media platforms for creation, especially in video form. With so many video creators, also provides more various kinds of videos and one of them is about food reviews. When uploading food review videos on YouTube platform one of the problems that arise for YouTube creators and viewers is that there is no feature that can classify comments. Anyone can freely comment on the video, including compliments or insulting comments. Based on this problem, a system is created that could automatically classify comments on related videos.*

*Sentiment analysis can be used to classify comments according to the categories used. Overall, the system consists of two stages, making a model and sentiment analysis process. In making a model there are several stages: preparing the dataset, preprocessing, labelling, term weighting, and training the dataset. The dataset used consists of all comments and replies on the video about food reviews. The system then preprocesses each comment which is followed by labelling and weighting each word. Sentiment analysis is using the K Nearest Neighbor (K-NN) algorithm which is categorized as a supervised learning method.*

*The final result of the system is classifying the sentiment values of all comments in video about food reviews into two classes, positive and negative. The best model has an accuracy 89%. As for all the comments obtained and the results of the sentiment analysis will be displayed on the web food review sentiment analysis to be visible for users.*

**Keywords:** *Dataset, K Nearest Neighbor, Labelling, Preprocessing, Term Weighting.*