

Abstract

Aspect extraction is a fundamental process in aspect-based sentiment analysis that aims to extract aspects from opinion texts. In this paper, we present an aspect extraction on Indonesian restaurant reviews using a deep learning-based approach. We collected and annotated Indonesian restaurant reviews dataset from one of the well-known restaurant reviews website, namely Zomato. We performed the annotation on token-level and used the following aspect labels to annotate the reviews: FOOD, PRICE, AMBIENCE, SERVICE, and MISCELLANEOUS. The experimental result shows that the LSTM model gave the best performance with micro average F1-score of aspect extraction is 55,1%.

Keywords: natural language processing, aspect extraction, deep learning, convolutional neural network, long short-term memory