

Abstract

One of parameter in measuring nation or city's success is from the happiness index of the citizen. While the management of the city is successful, the people will have a high index of happiness. In this research was built a system that will process data taken from social media Twitter with geocode of every sub-district and in Indonesian language as a limitation. The data that has been taken will be divided and classified according to the types contained in the tweet. Classification used in this ontology is Support Vector Machine (SVM) classification. Then the data will be grouped with ontology top-down bottom-up classification that define more detail and accurate according to the needs and will be continued with filtering every tweet that suits or not. Twitter was chosen as a data resource because twitter is one of social media that is still active and full of public opinion. So that data from twitter can still be used as a measurement of Bandung's happiness index.

Keywords: Top-down Bottom-up classification ontology, Support Vector Machine, Twitter, Happiness Index