

## **Abstract**

Congestion is a major problem in traffic. The large number of vehicles without being followed by an increase in road sections causes congestion and buildup of vehicles at crossroads. This study will conduct a classification based on the Buah Batu Crossing data obtained from the Bandung City Transportation Department using data mining techniques. The attributes that will be used in classifying congestion are time, vehicle position, volume of vehicles that pass, road capacity, degree of saturation and the level of service of congestion. The method used is the Naive Bayes Classifier method, which is one of the classification techniques in data mining. Based on the research conducted concluded that, the congestion classification system at the intersection of Buah Batu Bandungdi can be engineered and Based on the results of the confusion test matrix with split validation techniques, the use of the naive bayes classification method of the dataset that has been taken on the research object obtained an accuracy level of 70.68 % or included in the Good category. While the Precision value of 80.68 % and Recall of 84.65 %.

Keywords : congestion, Naive Bayes Classifier , Data Mining