ABSTRACT

Changes in people's needs affect their preferences for the type of transportation they use. The large demand for transportation needs can be seen in the behaviour of commuters who travel daily for work, school, and other purposes. This study aims to analyse the effect of travel cost, income, female commuters, age, working commuters, education level, speed, comfort, safety, practicality, and mobility on the behaviour of Jabodetabek commuters in choosing public transportation modes.

This study was conducted using data from the 2019 Jabodetabek Commuter Survey, which obtained from the Central Bureau of Statistics. This study uses the binary logistic regression estimation technique with a dichotomous dependent variable, namely 1 for public transportation and 0 for private transportation. The logit regression model is used to determine the effect of the independent variables on choosing transport modes. The number of Jabodetabek commuter samples used was 4,315 people based on the specified criteria, namely commuters with private vehicle ownership of motorbikes or cars.

The results indicated that commuters with private vehicle ownership used less public transportation at 24,19% with a total of 1.044 commuters compared to using private transportation were 75,81% with a total of 3.271 commuters. The behaviour of Jabodetabek commuters in choosing public transportation modes is significantly influenced by the factors of travel cost, female commuters, working commuters, education level, speed, comfort, safety, practicality, and mobility.

Keywords: Selection of Transportation Mode, Commuters in Jabodetabek, Binary Logistic Regression