

## **ABSTRACT**

Along with the rapid selling power of motorized vehicles, both vehicles, motorcycles, and public transportation. The denser the volume of vehicles crossing urban and rural roads, this certainly creates an unpredictable congestion, the process and modeling of traffic flow can be started by studying SUMO (Simulation Urban Mobility). The output value of SUMO is used in calculations in the Python application with the Naïve Bayes algorithm that requires previous history data to be able to predict traffic flow.

**Keywords:** Traffic flow, SUMO, Python, Naïve Bayes algorithm.