

ABSTRACT

Air pollution is a negative impact of human activities on the environment. Contaminated air can be harmful to the environment, causing respiratory problems for humans, global warming and affecting the environment's metabolism. Indonesia ranks 17th in the world in the 2022 AQI (Air Quality Index) International rankings. To reduce air pollution, it is necessary to raise public awareness about air pollution.

The city of Bandung, Indonesia is a large city located near the capital. Its strategic geographical location makes it a suitable place to live, but also has a high population density and industrial activity, leading to high levels of air pollution. Although Bandung already has an air quality monitoring system, it only monitors general parameters such as ozone, carbon monoxide, and particulate matter. To increase public awareness, the city needs to use the Air Pollution Standard Index (ISPU) as a reference.

In this study, the author collected the most recent data according to the ISPU requirements. Preprocessing was used to determine the accuracy of air quality readings and provide air quality predictions to the public. With this information, the public can take precautions to reduce the production of pollution.

Keywords: *Air Pollution, ISPU, Preprocessing, Accuracy, Prediction.*