ABSTRACT

One of the infectious diseases that has become a topic of discussion that is crowded in the health world is Tuberculosis (TBC). Because TBC is one of the 10 diseases that are the leading cause of death worldwide and in Indonesia is ranked third with the highest cases after India and China. This makes this disease necessary to have a forecast or prediction in the future so that the public anticipates it early.

In this final project research, the author will create a system for Predicting Tuberculosis Patients. The results of this study are in the form of predictions of the number of sufferers in the future. The data used came from the Karawang Regency Health Office for the period January 1, 2020 to December 31, 2021.

This Tuberculosis Patient Prediction System uses the Support Vector Regression method and uses the Radial Basis Function kernel which produces a Mean Square Error (MAE) performance error value of 0.099448, Root Mean Square Error (RMSE) of 0.136204 and R^2 of 0.220323.

Keywords: *Tuberculosis, Prediction, Support Vector Regression*