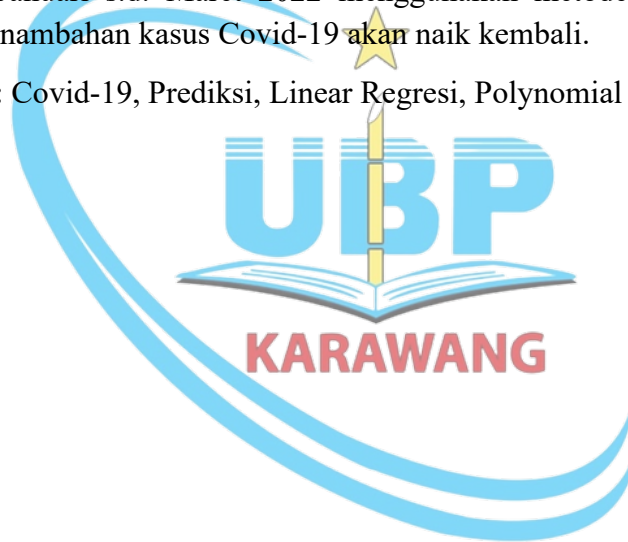


ABSTRAK

Organisasi Kesehatan Dunia pada 11 Maret 2020 telah mengumumkan bahwa *Coronavirus Disease 2019* (Covid-19) sebagai sebuah pandemi. Covid-19 ialah sebuah penyakit yang disebabkan oleh jenis *coronavirus* baru yaitu *Sars-CoV-2* yang mengganggu sistem pernafasan. Hingga saat ini kasus terkonfirmasi positif Covid-19 di Indonesia masih terjadi setiap harinya. Penelitian ini bertujuan untuk melakukan prediksi penambahan kasus Covid-19 di Indonesia. Data yang digunakan bersumber dari *API* publik laman covid19.go.id berupa penambahan jumlah kasus Covid-19 di Indonesia sebanyak 122 baris data. Prediksi dilakukan dengan menggunakan metode linear regresi dan polynomial regresi sebagai pembandingan. Evaluasi pada metode linear regresi mendapatkan nilai $R^2 = 0,57$, sedangkan metode polynomial regresi mendapatkan nilai $R^2 = 0,84$. Berdasarkan evaluasi tersebut, metode polynomial regresi mendapatkan hasil yang lebih baik dibandingkan dengan metode linear regresi. Prediksi kasus Covid-19 di Indonesia pada bulan Januari s.d. Maret 2022 menggunakan metode polynomial regresi diprediksi penambahan kasus Covid-19 akan naik kembali.

Kata Kunci: Covid-19, Prediksi, Linear Regresi, Polynomial Regresi



ABSTRACT

The World Health Organization on March 11, 2020 has declared Coronavirus Disease 2019 (COVID-19) as a pandemic. Covid-19 was a disease caused by a new type of coronavirus, namely Sars-CoV-2, which disrupts the respiratory system. Recently, positive confirmed cases of Covid-19 in Indonesia still occur every day. This study aimed to predict the addition of Covid-19 cases in Indonesia. The data used was sourced from the public API on the covid19.go.id page in the form of an increase in the number of Covid-19 cases in Indonesia as many as 122 rows of data. Prediction was done by using linear regression and polynomial regression as a comparison. Evaluation on the linear regression method got the value of $R^2 = 0.57$, while the polynomial regression method got the value of $R^2 = 0.84$. Based on this evaluation, the polynomial regression method obtained better results than the linear regression method. Prediction of Covid-19 cases in Indonesia in January s.d. March 2022, using the polynomial regression method, it is predicted that the addition of Covid-19 cases will increase again.

Keywords: Covid-19, Prediction, Linear Regression, Polynomial Regression

