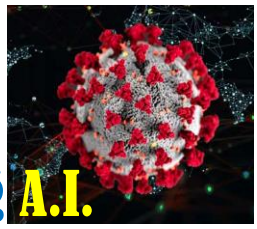

Data Analysis and Forecasting of COVID-19 using A.I.

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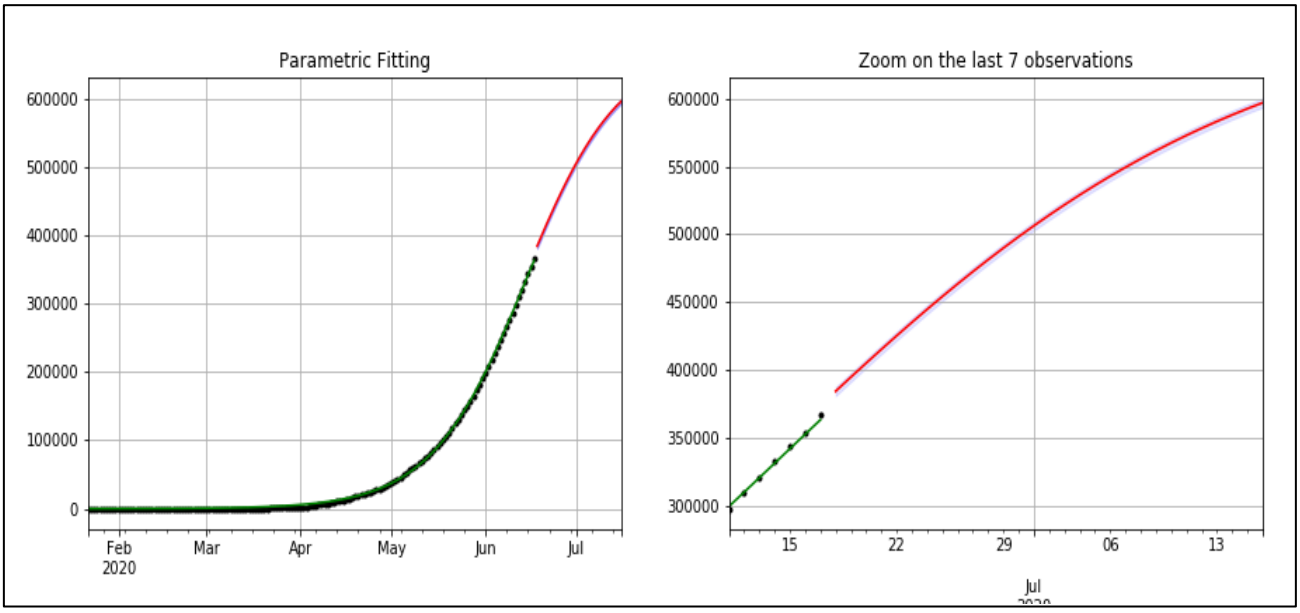
Covid19 has been declared as pandemic by WHO and for last four months people has been locked up in their houses creating worldwide stress and economy loss. We are very optimistic that the situation is going to be normal soon. We have analyzed how this unforeseen scenario has affected the life of people and country's growth and modeled it using various models that varies from epidemiological models like SIR and SEIR to time series forecasting models like ARIMA, SARIMA to machine and Deep learning model like SVM, Polynomial Regression, LSTM. We have also fitted the data using parametric curve fitting using logistic function, which nicely fits the data and gives optimal prediction. Then we have deployed these models to forecast future scenarios like daily new cases and fatalities rate.

Forecasting done for India



Results of Prediction Models

	Date	Average of Predictions Models	Actual No. of cases (covid19india.org)
0	2020-06-16	296333.050063	354157
1	2020-06-17	306962.132459	367265
2	2020-06-18	317839.369978	381091
3	2020-06-19	328926.429470	395831
4	2020-06-20	340188.991598	411752