# Coronavirus Infection Probability in India

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## Abstract

**Modeling and forecasting the spread of COVID-19 pandemic in India and significance of lockdown:**

The Series of SARS dieses generated the COVID-19 it was first identified in Wuhan, China in December 2019 and is spreading all over the 190 countries in over all the world. The ongoing outbreak presents in the world a challenge for data scientists to model COVID-19, when the epidemiological and sanitation characteristics of the COVID-19 are yet to be fully explained. There is no vaccine , medicine are available for this virus it spread very westly over the world its high time for all doctors and scientists to country this virus as possible as fast . till today additional pressure on the Doctors and policy makers. In such a tough situation, it is very important to predict infected cases to support prevention of the disease and aid in the preparation of healthcare service. Nation is fighting efficiently against COVID-19 and facing greater challenges because of its large population and high population density.

Though the government of India is taking all necessary actions to prevent its spread, it is not enough to control and stop spread of the disease so far, perhaps due to the uncooperative nature of people living in India. Effective measures to control this disease, medical professionals need to know the estimated size of this pandemic and pace. In this survey , an attempt has been made to understand the spreading capability of COVID-19 in India through some simple models has to be design . Findings the suggestions that the lockdown strategies has to be implemented in India are not successfully reducing the pace of the pandemic significantly after the first lockdown. so the data scientists has develop a prediction for which check the infection or spreading the disease possibility in machine learning and using support vector machine algorithm and clustering technique it help to control the infection rate

**Introduction:** (The December 2019 New Corona Virus (SARS-CoV-2) Outbreak: A Behavioral Infectious Disease Policy Model by Jeroen Struben)

11 March 2019 WHO decolare the Coronavirus (SARS-COV-2) it was first detect in China at Wuhan's library it spread very fastly over the world it affected almost 190 countries in the world since early at the April over 1.25 million cases over 67 death

Has been detected. in india the first cases of COVID-19 in India were reported on 30 January 2020 in three towns of Kerala , among three Indian medical students who had returned from Wuhan . due to this in Kerala Lockdown has been announced on 23 March, because the spread of this virus is very vast it can be spread through the the air it very difficult to control the spread of this virus for to control spread of cases the WHO and all leaders of 195 country has decide the lockdown in the rest of the country on 25 March. This is techniques is very useful to control the spread of this covid19 the case rate was decreases solvely over the world On 10 June, India's recoveries exceeded active cases for the first time. Infection rates started to drop in September, along with the number of new and active cases. As the cases drop the government decide to lose some restriction

Due to this again the spread of covid 19 virus increase with more powerfully on daily cases peaked mid-September with over 90,000 cases reported per-day

dropping to below 15,000 in January 2021.A second wave beginning in March 2021 was much more devastating than the first, with shortages of vaccines, hospital beds, oxygen cylinder and other medical supplies in parts of the country. By late April, India

led the world in new and active cases. On 30 April 2021, it became the first country to report over 400,000 new cases in a 24-hour period to control this spread or case   we developed the model  which the  probability  spreading this cours

## Literature Review :

Researchers  have been studying the origin of the Covid19 study on the rate of increasing as well as decreasing the cases of this virus. Study all the aspects and  design the model to check the probability of spreading this virus  and also study on how to overcome this disease  . it help  to overcome  with the new normal

## Methodology:

 1.Support vector Machine

2.Model based data Driven Decision:

3.support Vector Machine:

4. k - nearest  Neighbors Algorithm:

5. Bayes Theorem

6. logistic Regression

**Conclusion :**    In  this  research  paper we explain  the origin and spread of  covid 19  disease  increase in world wild and in  a india. we cannot assure about this prediction because  the strength of the wires and the condition  is changes  daily  it may be worst or  better than the day   before  we just predict the same result according to aware  knowledge  so we hope this will be help you  . so keep in mind  the future is always unpredictable .

## Reference:

1.The December 2019 New Corona Virus (SARS-CoV-2) Outbreak: A Behavioral Infectious Disease Policy Model (

View ORCID Profile

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Published: 16 April 2021

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