

ISSN - 2279 - 0489
AN INTERNATIONAL MULTIDISCIPLINARY
HALF YEARLY RESEARCH JOURNAL

GENIUS

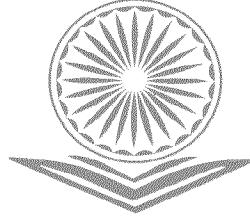
Volume - X

Issue - I

August - January - 2021-22

ENGLISH / MARATHI / HINDI PART - I

Peer Reviewed Refereed and
UGC Listed Journal No. 47100



ज्ञान-विज्ञान विमुक्तये

IMPACT FACTOR / INDEXING
2019 - 6.631
www.sjfactor.com

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Ajanta Prakashan

Aurangabad. (M.S.)

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Owner, printer & publisher Vinay S. Hatole has printed this journal at Ajanta Computer and Printers, Jaisingpura, University Gate, Aurangabad, also Published the same at Aurangabad.

Printed by

Ajanta Computer, Near University Gate, Jaisingpura, Aurangabad. (M.S.)

Printed by

Ajanta Computer, Near University Gate, Jaisingpura, Aurangabad. (M.S.)

Cell No. : 9579260877, 9822620877 Ph. No. : (0240) 2400877

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GENIUS - ISSN 2279 - 0489 - Impact Factor - 6.631 (www.sjifactor.com)



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18. Prediction of Total Number of Corona Patients Using Least Square Method

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Abstract

In this paper, we used mathematical method of a time series analysis that is least square method to check the behavior of Covid-19 pandemic. We used the available data of number of positive Covid-19 patients under the condition that number of corona patients continuously increasing with approximately same speed.

Preliminaries

In the subject of Mathematics and Statistics, time series analysis plays an important role. Mathematically, time series is nothing but the function of one variable, that is time variable. Here time variable is denoted by t and values of a function is denoted by y . Thus, mathematically, is denoted as $y = f(t)$. There are various methods which can be applied to study the time series which leads to analysis of time series. The study of time series helps in formulation of future plans and policies. It also enables us to forecast the future changes. In the similar line we are going to use least square method to predict the Covid-19 behavior using past available data. First we will see least square method of a time series analysis.

Result

Graphical representation of the time series tells us that at which point trend of time series is high or low and hence little bit idea of the time series can be obtained. Let $y = a + bx$ be the equations of the straight line trend. Now taking summation on both side for given n set of values, we get the following equation

$$\sum y = na + b \sum x.$$

Now multiply $y = a + bx$ by x and again taking summation, we get the following equation $\sum xy = a \sum x + b \sum x^2$.

From given values of x , we define new values of x , such that $\sum x = 0$. The constant a and b can be calculated as follows and details are given in the reference.

$$b = \frac{\sum xy}{\sum x^2} \text{ and } a = \bar{y} = \frac{\sum y}{n} \text{ and hence the values of } y = a + bx.$$

We will use above method to check the behavior of Covid-19 under the condition that the number of corona patients remains increasing with approximately same speed. In our case, instead of years, we use a day for time variable. We have listed here the data of number of corona patients found in Maharashtra during the period March 20 2021 to March 26 2021. Following is the data:

Day (from March 20 2021 to March 26 2021)	Number of Corona patients found in Maharashtra
20 March	27126
21 March	30000
22 March	26672
23 March	28699
24 March	31855
25 March	35952
26 March	35000

Here value of n is equal to 7. We take 22 as a centered value and hence define $x = 22$. Therefore x will be $-3, -2, -1, 0, 1, 2, 3$ under the condition $\sum x = 0$. Now we will prepare the following table:

Day	Corona Patients (y)	x	x^2	xy	Trend Values ($y = a + bx$)
20	27126	-3	9	-81378	26396.0358
21	30000	-2	4	-60000	27849.9286
22	26672	-1	1	-26672	29303.8214
23	28699	0	0	0	30757.7142
24	31855	1	1	31855	32211.607
25	35952	2	4	71904	33665.4998
26	35000	3	9	105000	35119.3926

In above table, we will calculate values of y after finding values of a and b . Here

$$n = 7, \sum y = 215304, \sum x^2 = 28, \sum xy = 40709,$$

Now a and b are calculated using above formulae, we get

$$a = 30757.7142, b = 1453.8928,$$

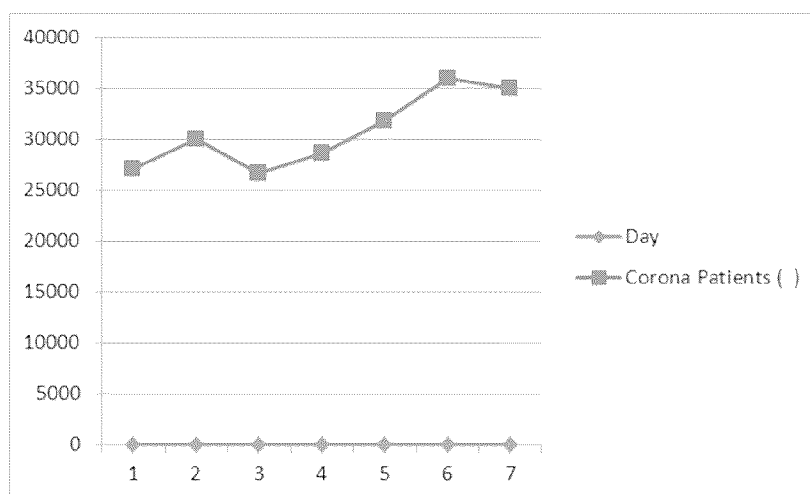
Thus the equation of trend line is

$$y = a + bx = 30757.7142 + 1453.8928x.$$

Now by putting values of x in above equation, we get all trend values. For example, for $x = -3$,

$$y = 30757.7142 + 1453.8928 \times (-3) = 26396.0358.$$

It is very easy to calculate all other values of y by putting given values x . Graphical representation of above data is as follows:



Since the values of x are equidistant, values of trend line for future values of x can be calculated. For example on April 6, 2021, the value of x will be 14. Thus value of trend line for $x = 14$ is

$$y = 30757.7142 + 1453.8928 \times 14 = 51112.2134.$$

Thus, we can make the guess that, on April 6 2021, there will be 51112(approximately) corona patients in Maharashtra. From available data on internet, actual number of corona patients found on April 6 2021 was 55469. Here original value of number of corona patients is not equal to value calculated by the method of least square method, but we will get sufficient information about total number of corona patients in upcoming days.

Conclusion

By using least square method, we can find approximately number of corona patients in upcoming days under some condition. So that we will get enough time to take action against spread of Covid-19 and thus we can make strong medical facility.

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