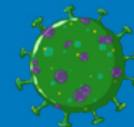
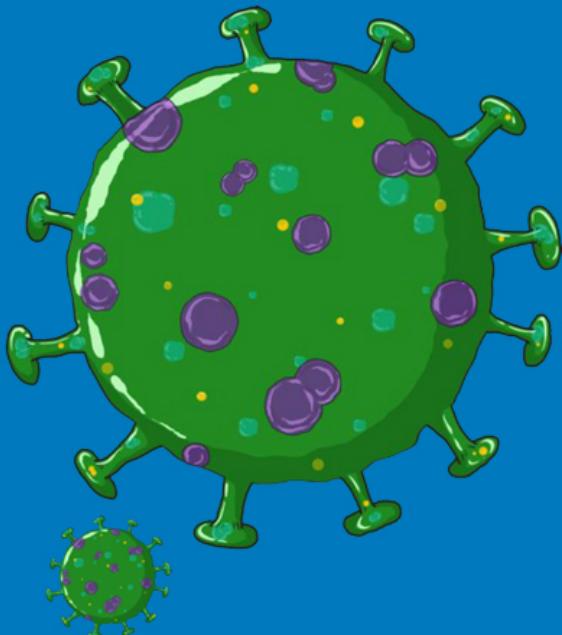


SAPTHAGIRI COLLEGE OF ENGINEERING



COVID-19

EFFECT OF LOCKDOWN ON THE
SPREADING OF CORONA VIRUS

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ABSTRACT

WHAT WILL BE THE GLOBAL IMPACT OF THE NOVEL CORONAVIRUS (COVID-19)? ANSWERING THIS QUESTION REQUIRES ACCURATE FORECASTING . THE SPREAD OF CONFIRMED CASES AS WELL AS ANALYSIS OF THE NUMBER OF DEATHS AND RECOVERIES. FORECASTING, HOWEVER, REQUIRES AMPLE HISTORICAL DATA. AT THE SAME TIME, NO PREDICTION IS CERTAIN AS THE FUTURE RARELY REPEATS ITSELF IN THE SAME WAY AS THE PAST. MOREOVER, FORECASTS ARE INFLUENCED BY THE RELIABILITY OF THE DATA, VESTED INTERESTS, AND WHAT VARIABLES ARE BEING PREDICTED.ALSO, PSYCHOLOGICAL FACTORS PLAY A SIGNIFICANT ROLE IN HOW PEOPLE PERCEIVE AND REACT TO THE DANGER FROM THE DISEASE AND THE FEAR THAT IT MAY AFFECT THEM PERSONALLY. THIS PROJECT INTRODUCES AN OBJECTIVE APPROACH TO PREDICTING THE CONTINUATION OF THE COVID-19 USING A SIMPLE, BUT POWERFUL METHOD TO DO SO. IF THE DATA USED IS RELIABLE AND THAT THE FUTURE WILL CONTINUE TO FOLLOW THE PAST PATTERN OF THE DISEASE, OUR FORECASTS SUGGEST A CONTINUING INCREASE IN THE CONFIRMED COVID-19 CASES WITH SIZABLE ASSOCIATED UNCERTAINTY.

PHASE 1

HOW CORONA CAN AFFECT THE NUMBER OF CASES?



1. PREPARING DATA FOR GLOBAL CASES
(CONFIRMED,DEATH,RECOVERY).
2. PREDICTING FUTURE OF GLOBAL,WHAT MIGHT BE THE
NUMBER OF CASES GOING TO BE RECORDED FOR THE
DAYS INSERTED BY THE USER (DEFAULT, 90 DAYS).

PHASE 2

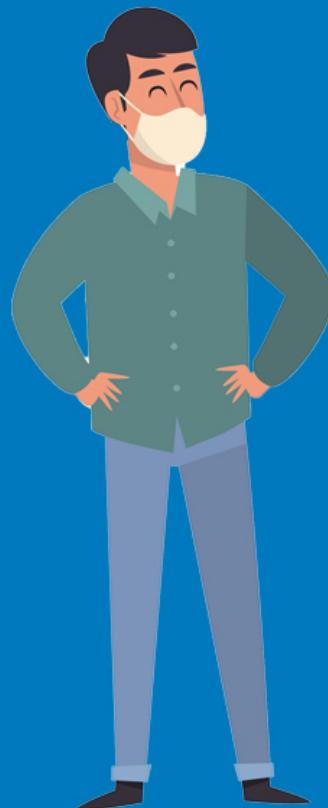
USER'S CURIOSITY , WHAT IS GOING ON IN THIER NATION ?



1. ENTER THE COUNTRY NAME, IF EXISTS AND ENTERED IN PROPER FORMAT.
2. PREPARE THE DATASET FOR THE COUNTRY.
3. VISUALISE THE DATA ON CONFIRMED,DEATH AND RECOVERED DATA.
4. USING FBPROPHET PREDICT THE CURRENT SITUATION DATA.

PHASE 3

EFFECT OF LOCKDOWN ON COVID-19 SPREADING



PROOF :

- 1) COMPARING CURRENT SITUATION BETWEEN INDIA AND AMERICA AND EXPLAINING THE SITUATION.
- 2) WHAT MIGHT BE THE NUMBER OF CASES (YESTERDAY) , IF LOCKDOWN NOT IMPOSED (ACCORDING TO “ THECONVERSATION.COM ”, THE EXPONENTIAL GROWTH RATE OF SPREADING IS 1.5).
- 3) USING THE ABOVE STEP ,THE DAY WE WOULD HAVE REACHED THE CURRENT COUNT OF CASES ,IF LOCKDOWN WAS NOT IMPOSED.

METHOD :

1. SINCE THE SPREADING(CONFIRMED CASES) WAS FOUND TO BE EXPONENTIAL,WE ARE APPLYING EXPONENT RATE TO THE NUMBER OF CASES RECORDED IN INDIA ON DAILY BASIS.
2. CONCLUDING - WHETHER LOCKDOWN IS EFFECTIVE OR NOT.

PHASE 4

REASON WHY WE SHOULD RESPECT THE HARDWORK OF OUR CORONA WARRIORS

PROOF:

- 1) WHAT MIGHT BE THE NUMBER OF CONFIRMED CASES IF NO ONE INTIMATED, THAT THERE IS VIRUS LIKE THIS?.
- 2) WHAT MIGHT BE THE NUMBER OF DEATHS? .
- 3) HOW MUCH WOULD HAVE BEEN THE PERCENTAGE AND THE COUNT OF LIFE IN RISK?.

METHOD :

1. DATA PREPARATION.
2. ESTIMATING THE RATIO OF NUMBER OF DEATH TO CONFIRMED CASES.
3. HOW MUCH LIFE WILL BE ENDANGERED ONLY BY THIS PANDEMIC.

ADVISORY MEASURES

COVID-19 IS STILL AN UNCLEAR INFECTIOUS DISEASE. THE OUTBREAK SPREADS ARE LARGELY INFLUENCED BY EACH COUNTRY'S POLICY AND SOCIAL RESPONSIBILITY, IT IS ALSO OUR RESPONSIBILITY NOT TO SPREAD UNVERIFIED NEWS AND TO REMAIN CALM IN THIS SITUATION.

THUS WE WOULD RECOMEND THE FOLLOWING SUGGESTIONS :

1. MAINTAINING A SOCIAL DISTANCE OF AT LEAST 2M.
2. EFFECTIVE USE OF A 3 LAYERED MASK TO COVER YOUR FACE.
3. ALWAYS AVOID TOUCHING YOUR FACE AND EYES .
4. MAKE USE OF ALCOHOL BASED SANITIZERS.
5. GREETING PEOPLE BY SAYING NAMSTE RATHER THAN PHYSICAL CONTACT.

EFFECTIVE LOCKDOWN ?

- IT REDUCED THE SPREADING CHAIN OF CORONA.
- IT HELPED IN COMBATTING CORONA, BY INCREASING THE NUMBER OF MEDICAL FACILITIES.
- MAKING PEOPLE UNDERSTAND THE SITUATION.

CONCLUSION

1. PREDICTION SHOWS WHAT WOULD HAVE BEEN THE INCREASE IN THE NUMBER OF CASES, IF SAME SITUATION WAS TO CONTINUE.
2. LOCKDOWN WAS VERY EFFECTIVE IN BREAKING THE CHAIN OF CORONA PROLIFERATE, AS PROVED IN PHASE 3.

THANK YOU
DOCTORS AND NURSES

