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Review on Covid-19 Tracker App

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ABSTRACT: -COVID-19 is currently the most serious threat to humanity's survival. Again, because mobile technology has become such an integral part of human life, it is conceivable to employ mobile technology to combat COVID-19. Every country is currently attempting to implement an interactive platform to raise public awareness and disseminate critical information on COVID-19. With all of this in mind, the writers have created INDIA COVID-19 TRACKER, an interactive cross-platform (web/mobile) tool for the convenience of users, particularly in India. This dashboard contains all of the real-time information regarding the new coronavirus illness, as well as its measurements and controls. The system is designed to safeguard society's digital security, raise public awareness, and prevent unrest among society's members.

KEYWORDS: COVID-19, TRACKER, Mobile App

I. INTRODUCTION

In Ireland, work is underway to build a new mobile COVID-19 application (app) for real-time symptom tracking and digital contact tracing as part of the national response to Covid-19. The app's mission is to help health care providers track and anticipate the development of COVID-19, with the main goal of flattening the curve and slowing or preventing the disease from spreading to others in our community. Apart from aiding in the immediate battle against Covid-19, the app will be particularly useful in assisting people in returning to regular life once the emergency measures in place are withdrawn.

We built the mobile and online applications with all of these difficult elements in mind, and we employed all of the promising technologies. The use of decoupled cloud architecture for the entire system improves performance and security (by separating the client-side and server-side clouds). In India, the dashboard may record cases at the state, city, and national level. The COVID-19 data on the dashboard is consistent with WHO situation reports and the Ministry of Health and Family Welfare, Government of India, for both within and outside of INDIA. Wireless communication, in the form of mobile technology, is becoming an integral component of our daily lives. This technology has now become the directing force for all human activity. Again, in this pandemic situation, preventing fake news and disseminating actual information, such as public awareness, test centres, geo-tracking, and so on, to everyone at all times with little price is possibly the most difficult problem facing any government anywhere in the globe. The only solution is to use mobile technologies.

II. LITERATURE SURVEY

FURQAN RUSTAM et.al [1] Machine learning (ML)- based assessing parts have shown their worth in anticipating preoperative results to further develop dynamic on future activities. For quite a while, ML models have been utilized in an assortment of utilizations that required recognizable confirmation and focusing on of negative factors for a gamble. To adapt to checking concerns, a couple of assumption methodologies are generally usually used. This work exhibits the limit of AI models to anticipate the quantity of future patients impacted by COVID-19, which is currently viewed as a likely danger to mankind. In this review, four normal checking models were utilized to anticipate the COVID-19 compromising factors: straight backslide (LR), least inside and out shrinkage and decision chairman (LASSO), support vector machine (SVM), and remarkable smoothing (ES).

Mujeeb Ur Rehman et.al [2] The COVID-19 pandemic has gotten profound reactions generally all through the world, simply a year after the WHO gave its true declaration. Countless neutralizer dosages were recently managed in a couple of nations. Regardless, the beneficial outcomes of these inoculations are probably going to take surprisingly

lengthy. In these conditions, identifying COVID-19 rapidly stays the best procedure to stop the spread of the disease. Be that as it may, depending exclusively on clear side effects, it is hard to anticipate whether an individual is contaminated with COVID-19. In this uncommon circumstance, creator propose utilizing AI (ML) calculations to all the more completely survey COVID-19-tainted people.

Yanping Zhang, zhangyp et.al [3] An episode of 2019 novel Covid contaminations (COVID-19) in Wuhan, Hubei Province, China has spread quickly crosscountry. Here, makers report results of an enchanting, exploratory examination of all cases investigated as of February 11, 2020. All COVID-19 cases uncovered through February 11, 2020 were isolated from China's Infectious Disease Information System. Examinations consolidated the going with: 1) summary of patient credits; 2) appraisal mature enough dispersals and sex extents; 3) calculation of case setback and demise rates; 4) geo-short lived assessment of viral spread; 5) epidemiological curve advancement; and 6) subgroup assessment.

Dr. Vakula Rani J#1 and, Aishwarya Jakka#2 [4] COVID-19 pandemic has influenced the economy and changed the human way of life, disturbing everyone's mental, physical, and financial thriving. Countless the fastest creating economies are focused on inferable from the earnestness and cognizance of the pandemic. Considering the rising assortment of cases and the resulting weight on clinical consideration experts and the public power, along these lines, predicting the amount of corrupted COVID-19 cases which could be useful in orchestrating the normal crisis facility resources later on. In makers paper, they focussed on information drove systems for evaluating the amounts of COVID-19 attested cases in the country and their ideas later on, using different learning models, for instance, Sigmoid showing, ARIMA, SEIR model and LSTM, for safeguarding strategies, for instance, social division or the lockout of COVID-19.

1Saud Shaikh,et.al [5] In makers paper, they are predicting and assessing the COVID-19 episode in India taking into account the AI approach, where they hope to conclude the ideal backslide model for an all around assessment of the first Covid in India. They are completing the two backslide models explicitly straight and polynomial and surveying the two using the R squared score and goof values. The COVID-19 dataset for India is being used to serve the assessment of this paper. The model is predicting the amount of asserted, recovered, and passing cases considering the data open from March 12 to October 31, 2020.

Saksham Gera et.al [6] The COVID - 19 (Novel Corona Virus) Pandemic has strike the world and cause an amazing obliteration all through daily existence. It is viewed as one of the despicable Pandemic starting from the dawn of history. This paper hopes to gives comprehension of how different models of ML are creation encountering exactly the same thing. Despite the backslide examination performed on Indian data, the audit breaks down contemporaneous model or example in COVID - 19 transmissions in India. Also, guaging structure considering Machine Learning has shown its importance for development of the managerial limit on following course of action.

Ovi Sarkar et.al [7] SARS-CoV-2 (n-Covid) is an overall pandemic that causes the passings of millions of people all over the planet. It can cause Pneumonia and outrageous extreme respiratory problem (SARS) and lead ludicrously in genuine cases. An asymptomatic sickness sets our life and work conditions. As there is no fruitful treatment open, various scientists and experts are putting forth a legit attempt to fight t he pandemic. This paper focused o n the Covid pandemic situation in the overall and Bangladesh locale and its associated effects and future status. Maker have utilized various information depiction and AI assessments to repeat the acknowledged, recuperated, and passing cases. Maker acknowledge the investigation will help specialists, experts, and normal people anticipate and research this pandemic's impact. Finally, the relationship and assessment of different models and computations successfully showed our portrayal and assumption accomplishment.

Shreyansh Chordia and Yogini Pawar et.al [8] The extraordinary eruption of the COVID-19 disease has spoiled more than 50 million people from one side of the planet to the other in less than a year. More than 1 million people have lost their lives in light of the ceaseless pandemic. The pandemic struck India on January 30, 2020, when the super certain occasion of COVID-19 was recognized in Kerala. Today, India is one of the most negatively affected countries on earth. From this time forward, it is of most outrageous importance to analyze the examples in India and use the embraced data to guess the future course of results. Close by the general example examination in India, this concentrate similarly thinks about 5 most affected states of the country: Maharashtra, Andhra Pradesh, Tamil Nadu, Karnataka and Uttar Pradesh as the subjects of the assessment.

Narayana Darapaneni et.al [9] In makers paper, they have taken apart the COVID-19 development in India and the three most influenced Indian states (viz. Maharashtra, Tamil Nadu and Andhra Pradesh) beginning at 29-Aug-20 and cultivated an assumption model to gauge the approach to acting of COVID-19 spread later on months. They included time series data for India and applied the Susceptible-Infective-Removed (SIR) model and the FbProphet model to anticipate the zenith infectives and top infective date for India and the three most affected states. In this paper, they further played out the overall assessment of the estimate results from SIR and FbProphet models.

Ashish U Mandayam1 et.al [10] With the development in the field of AI, judicious assessment has transformed into a basic part for future assumption. As maker face the COVID-19 pandemic, predicting the future number of positive

cases for better measures and control would be helpful. They used two oversight learning models to expect the future using the time-series dataset of COVID-19. To focus on the introduction of assumption, the assessment between Linear Regression and Support Vector Regression is finished. They have involved these two models as the data were essentially immediate.

IV. PROPOSED SYSTEM

Figure 1 depicts the produced system's system model; for our proposed interactive dashboard INDIA COVID-19, the writers chose a decoupled architecture. The frontend and backend are the two key components of the complete model. The user is presented with a cross-platform application (mobile/web) on the frontend, which gets data from the clientside cloud and shows it to the user.

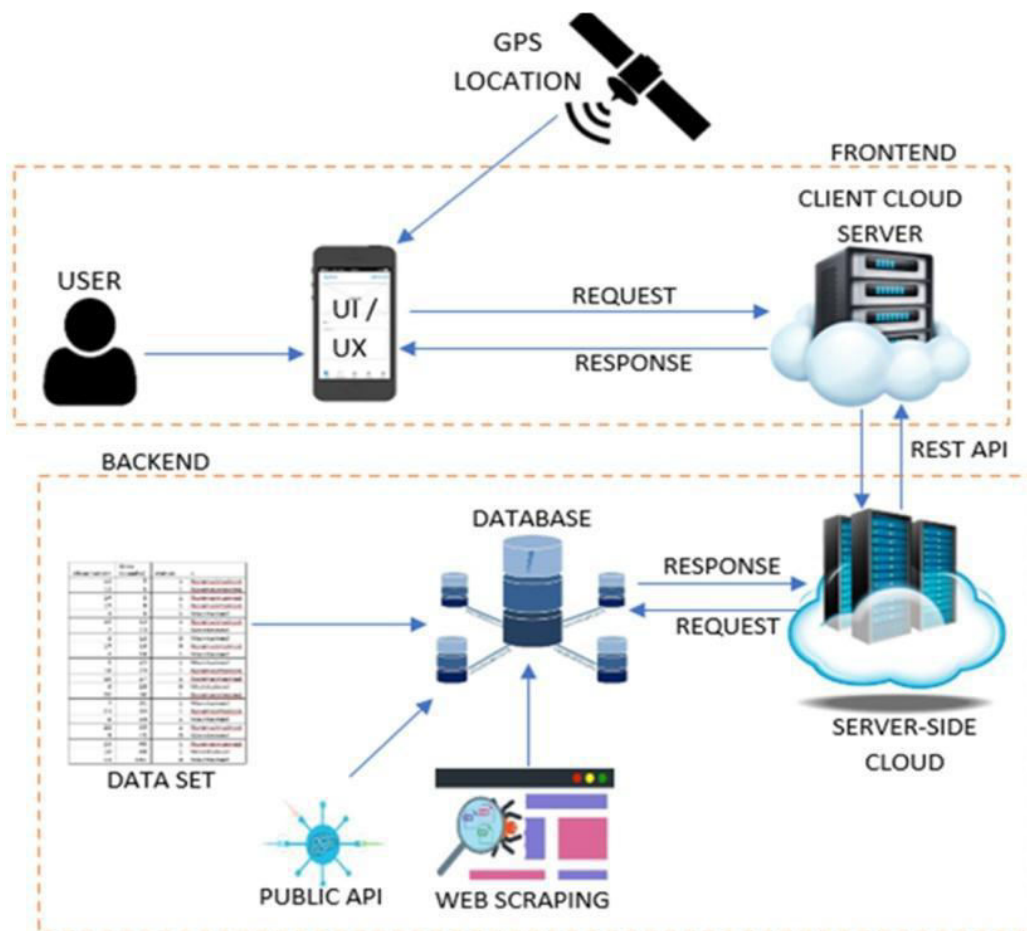


Figure. 1: System Architecture

The backend, which includes a database and a server-side cloud, is the next step. Data is acquired and saved in the database through public APIs, web scraping, and real-time datasets. The server-side cloud and the 12 International Journal for Modern Trends in Science and Technology database both respond to requests in a similar way. Our responsive REST APIs, on the other hand, maintain data connectivity between the client-side cloud and the server-side cloud. As a result, the entire system is distinctive, useful, safe, and user-friendly, with all of the functions available to users maximized.

V. CONCLUSION

Proposed and executed the mobile application INDIA COVID-19 with the goal of raising public awareness about the nation's present pandemic scenario as a result of COVID-19. We can deliver essential information to individuals in

their mobile phones with the simplicity of getting it wherever they want it thanks to technological development. We intend to expand this application due to the dashboard's use and effect. We are convinced that, at this time, this application serves a critical role in disease control. As a result, the innovative technology-based mobile application plays an important role in the fight against COVID-19.

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