

Overview

The COVID-19 pandemic has affected the entire world, and Pakistan has been no exception. To effectively manage the pandemic, The Organisation in Pakistan embarked on a project to develop a machine learning (ML) model that could forecast COVID-19 cases based on historic data and other relevant factors.

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A prestigious public Health Organization providing various aspects of healthcare and facilities.

Country: Pakistan **Industry:** Public Sector

Customer Size: 5000 - 100,000 **Publish Date:** 24/02/2023

Problem Statement

The COVID-19 pandemic has led to a significant increase in the number of cases and deaths in Pakistan. Managing the pandemic requires accurate and timely information about the spread of the virus, which can be challenging to obtain. Additionally, policymakers need to make informed decisions regarding pandemic management and control, which requires accurate forecasting of COVID-19 cases. To address these challenges, the organisation in Pakistan embarked on a project to develop an ML model that could forecast COVID-19 cases based on historic data and other relevant factors.

Technologies	Domain
ARIMA, LSTM, FbProphet, Pandas, Seaborn, Matplotlib	Forecasting

Matplotlib, to help visualize and interpret the data.

Results

The ML model developed by the organisation in Pakistan has shown promising results in forecasting COVID-19 cases. The model has been able to accurately predict the number of cases and deaths, both nationwide and in specific provinces, based on the available data. The model has helped policymakers make informed decisions regarding pandemic management and control by providing accurate and timely information about the spread of the virus. Additionally, the ML model has helped to identify areas that are most susceptible to the spread of COVID-19. which enabled has policymakers to take proactive measures to prevent the spread of the virus. Overall, the ML model developed in Pakistan has been an essential tool in the fight against COVID-19 and has helped to manage the pandemic more effectively.







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