

# ASSIGNMENT

on

*Two page write-up on 5 Solutions to Covid 19  
provided by Biomedical Engineers*

*Submitted by*

**Vinayakgouda Maheshgouda Talegoudar**

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*Submitted to*

**Dr. Saurabh Gupta**

**Assistant Professor**



**Department of BIO MEDICAL ENGINEERING  
National Institute of Technology Raipur  
G.E. Road, Raipur Chhattisgarh-492010, India**

## **5 Solutions to Covid19 provided by Biomedical Engineers**

There are many ways that biomedical engineers may be able to help solve Covid19. Some common approaches include developing new algorithms or methods for data analysis, devising new treatments or therapies, and creating models or simulations to better understand how diseases work. In some cases, biomedical engineers may need to collaborate with other experts to develop solutions that are effective and efficient. Overall, biomedical engineering is a versatile field that can help solve many problems related to Covid19 research.

- 1) Use a machine-learning algorithm to identify Covid19 variants and create a risk assessment for each variant. This could include identifying which Covid19 variants are associated with increased risk of disease progression or death and developing new diagnostic tests to detect these variants in patients.
- 2) Develop new diagnostic tests for Covid19 variants that can help identify patients at risk for disease progression or death. These tests could include genetic sequencing, mass spectrometry, and proteomics techniques.
- 3) Create targeted therapies or vaccines to inhibit the activity of Covid19 variants in patients with the disease. This could involve developing drugs that target specific Covid19 variant functions or creating vaccines that protect against specific Covid19 variants.

#### 4) Social Distancing & Mask Monitor Drone for COVID

Prevention -Many people avoid socializing because they fear being exposed to contagious diseases. However, this can be difficult if you cannot leave your home. One solution is to use a mask monitor drone to keep track of people in the area and ensure that they are wearing masks when they are near someone who is sick. This will help prevent the spread of infection. The mask monitor drone can be programmed to detect the presence of masks and track their movements. It can also send alerts if someone does not wear a mask, which will help you take appropriate action. This is an important tool for preventing the spread of COVID, a highly contagious virus that causes severe respiratory illness.

5) The Aarogya Setu App is a health information and tracking app for Android devices. It provides users with information on a variety of health topics, including symptoms, treatments, and health news. The app also includes a tracking feature that allows users to record their health information, such as medications, allergies, and blood pressure.