**FlashNode**

**Problem Statement :** Healthtech

**Idea Brief :** Authorities such as hospitals and security organizations can use Covid Alert's administration page. It consists of an application that identifies whether or not a person is wearing a mask and also software that determines whether or not social distance conventions are being observed.

Proper implementation of this project can aid in preventing the spread of Covid-19 while also ensuring rigorous adherence to government regulations.

This application can be readily developed on the Rasberrypie system, and the system can be deployed in locations where the application may be used effectively, such as hospitals, places under surveillance by the police force, etc.

**Tech Stack :** Python, JavaScript, Bootstrap, HTML5, CSS3, Tensorflow, Keras, Imutils, OpenCV, Adobe Premiere Pro, Adobe Dreamweaver.

**What positive and unique solutions your idea have :** We provide a platform for the general public to view all relevant Covid-19 information (such as the number of cases, origin, and how they can protect themselves) as well as estimates via a map that shows the intensity of cases in their region, as well as software for government agencies to protect and track people who are not wearing masks or following social distancing norms.

As a consequence, government authorities may utilize this data to take necessary action against offenders, ensuring that people's health is safeguarded. With the widespread of COVID-19, social distancing has proven to be quite efficient, and a proper system can assist us in maintaining efficient social separation in public settings. To track social separation in public spaces and workplaces, we employed Python, Computer Vision, and Deep Learning. Today, deep learning/AI is a must-have. We designed a method to preserve social distance in public locations such as offices, malls, and schools.

**File Directory:**

1. Covid Dashboard: Contains live map software.
2. Face\_detection: Contains face mask detection software.
3. Tracker: Contains social distancing software.
4. Mait\_Hackathon: Contains webpage.