# FlashNode

Covid Alert

**INDIA**
COVID numbers in India's cities
Seven-day rolling average of daily cases from April 1-24, 2021.
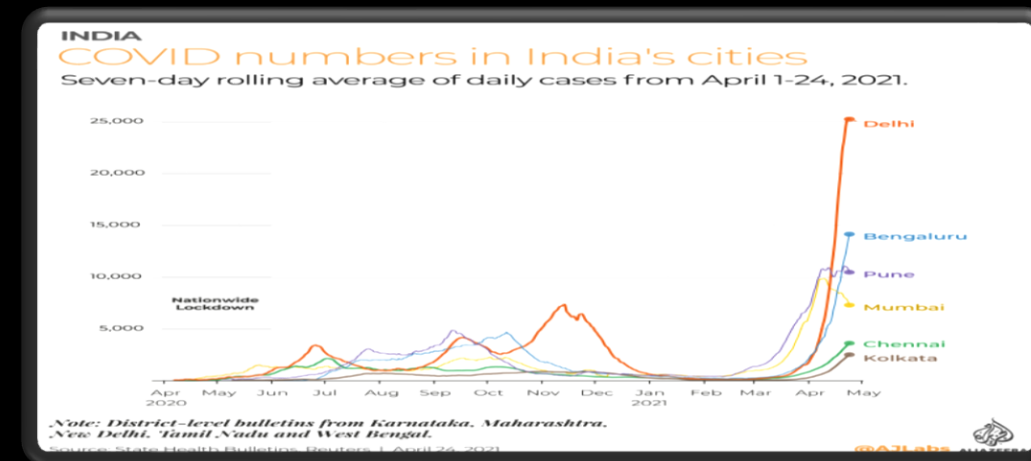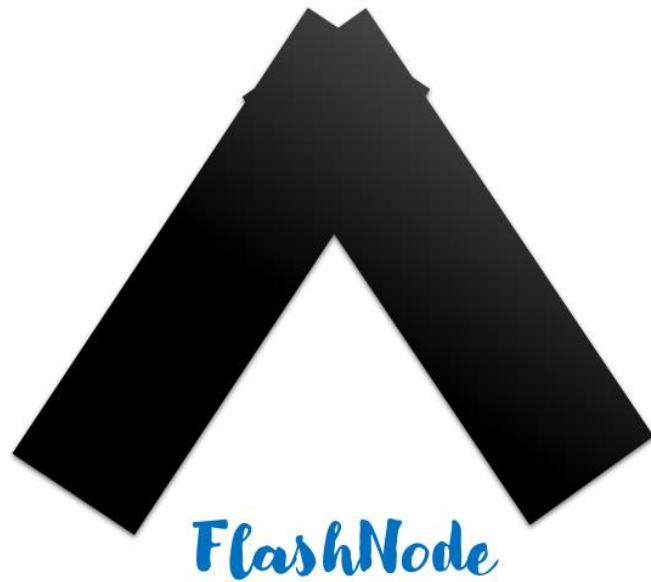
# Our Inspiration

We are all aware of the global and economic impact of Sars-Covid19. Authorities are attempting to control the chaos that has erupted as a result of the public's fear. Covid-Alert is a tiny endeavor aimed at calming and informing people about the Covid-19 pandemic and assisting them in understanding what they need to do to stay safe from it. It also provides authorities with a remedy. It is simple to build and scale without requiring a lot of resources.

# Vision, Mission and Goal

Our goal is to consolidate the Covid-19 data and make it available and helpful across the country.
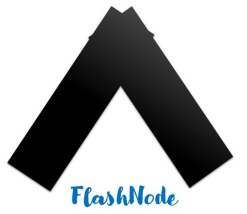
We are dedicated to making India a Covid-free country.

Discipline and accurate information are the keys to saving oneself in this time.

As a result, we'd like to introduce our product: Covid-Alert

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# What it does

Essentially, 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 save themselves) as well as a software for government agencies to protect and track people who are not wearing masks or following social distancing norms. Government agencies can use this information to take appropriate action against the violators, as a result, people's health is protected.
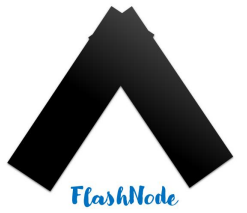
# How we built it

The Web-page and the Covid Alert software was built on **Visual Studio Code**.

We have used **deep learning- TensorFlow and Keras** and some acknowledgeable references to develop our face detector and distancing model .
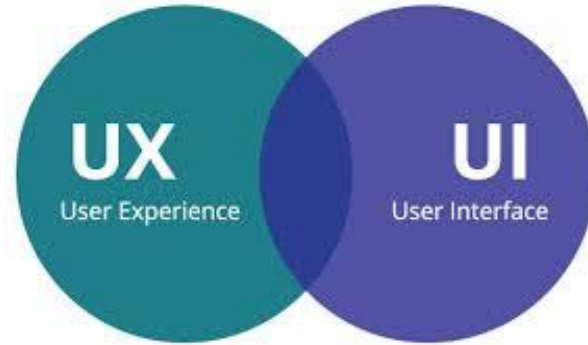
We have made full use of **Adobe Premiere Pro**, **Bootstrap**, **Google suite**, and **Microsoft 365** to create our website and design.

# Challenges Faced by us

- The application of tensor and Keras for detecting mask was a huge difficulty for us in the backend, therefore we enlisted some help in constructing the script to train the system to recognize people with and without mask.

- We discovered that deciding on a webpage design is much more difficult than it appears and is seemingly impossible to figure out in a few hours. We got a lot of help from the internet.
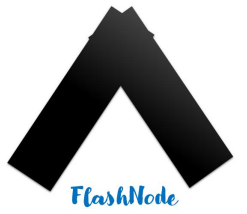
## Accomplishments that we're proud of

After spending a lot of time researching the only thing that came close to our idea – Making India Corona free and spreading awareness – we created a service that not only has a clean, minimalistic UI/UX, but also doesn't require any training to use, saving both government agencies and our users money and time. The fact that we could code in an almost replica of our design prototype into the final product was an impressive achievement for us. We also explored and delved into many new technologies. It was a remarkable feat for us to be able to code in an almost exact reproduction of our design prototype into the final product. We also looked into and learned about a variety of new technology.

# What we learned

We discovered more about the what and why of our country's sudden increase in Covid instances. There appeared to be no answer to the difficulties being solved, which led to the creation of our project. We learned how to use Tensor, Keras, Mapbox, and a variety of useful algorithms like Viola-Jones, Centroid-Tracking, and Non Max Suppression.

# Glimpse of our Work

https://www.behance.net/gallery/120358999/FlashNode-Covid-Alert

# Upcoming Features

- Notification on device related to covid.

- Integration of dashboard with josh hopkins data.

- Better info updates on live map dashboard

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# Our Team

We are Maharaja Agrasen Institute of Technology's first-year B.Tech Information Technology students.

## Backend Developers:

**Shreesh Kumar Jha:** For my team, I worked as a backend developer and created the Face Mask Alert and Covid Dashboard for the web page. I also worked on documentation of the project on GitHub.

**Parth Pasricha**: I created Social Distancing Alert as a backend engineer for my team.

## Front Developers:

**Abheet Sethi:** For my team, I worked as a frontend developer, responsible for website design and development, video editing, and presentation creation.

**Vidhi Jain:** I created all of the content on the website and conducted all of the research necessary to deliver relevant material.

# Bibliography

google.com

youtube.com

behace.com

bootstrap.com

github.com

who.int/health