



# *OPTIMIZING COVID-19 PANDEMIC MANAGEMENT*

*By:- Code Crystals*

# THEME

## CHALLENGE

Unprecedented Strain on Healthcare Systems

## AIM

Enhance Pandemic Management & Resource  
Allocation



# TARGET AUDIENCE



- Government Officials
- Healthcare Administrators
- Medical Professionals
- Suppliers
- Patients

# PURPOSE

- **Develop Solutions for Real-Time Coordination, Data-Driven Insights**
- **Create data-driven insights for informed decisions.**
- **Efficient Scheduling & Deployment of Healthcare Staff**
- **To Create Real Time Coordination between Hospital,doctor,Medical Stocks**
- **To Predict Highly Infected Area , Supply Needs**
- **WorkForce Distribution of nurse , Doctor , Medical Staff**
- **Decision Making between effcienecy Making and Resource Making**
- **Public Communication through Chatbot**

# BASIC FEATURES

Interactive Data  
Visualization

Medicine Stock  
Management

Efficient Resource  
Allocation

Real-Time  
Communication

Remote  
Consultations

# TOOLS & TECHNOLOGIES

**HTML , CSS, Javascript**  
Web Framework

**WebSockets**  
Real-Time Communication

**Python asyncio**  
oT Simulation

**Pandas, NumPy**  
Data Analytics

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Data Analytics

**Matplotlib, Tableau**  
Data Visualization

**Twilio**  
Voice Response

Train  
Prediction  
Model

Simulate IOT  
Sesnor

Web Socket  
Server

Tableau  
Visualization

# OUR TEAM



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