SMART TRAVEL BY OPTIMIZING TRAFFIC AND ROUTES

MINISTRY/ORGANIZATION NAME: MINISTRY OF HOUSING AND URBAN AFFAIRS

PROBLEM STATEMENT: OUR CITIES ARE EXPANDING AND MOST OF THE PEOPLE HAVE TO TRAVEL MORE THAN 2 HOURS DAILY TO COMMUTE BETWEEN THEIR PLACE OF WORK AND STAY. THESE THINGS OFTEN LEAD TO WORK-LIFE IMBALANCE, MORE STRESS, IMPACT WORK PERFORMANCE, ETC. WE ARE LOOKING FOR A SOFTWARE SOLUTION FOR SMART MANAGEMENT OF TRAFFIC. IT SHOULD LEAD TO BETTER TRAVEL PLANS, LESS STRESS DUE TO DRIVING AND OPTIMIZED TRAVEL TIME. YOU CAN CONSIDER DATA AVAILABLE OVER INTERNET FOR MODELING THE SOLUTION.

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USE CASE

- Our idea is to make travel through cities seamless by optimizing the traffic lights with help of machine learning that would help in managing the traffic at intersections on the basis of traffic densities across different roads, it would also help in clearing traffic in case of an accident by sending real time data to the government and informing the required authorities. There would be an option to report broken traffic lights or any other accidents and discrepancies on the road. An app based system would allow users to navigate through traffic and provide them with the optimum path from Point A to Point B, additional features would include giving the users to opt for the safest route, shortest route, cheapest mode of transport etc.

DEPENDENCIES

- 1. HTML
- 2. CSS
- 3. JavaScript
- 4. jQuery
- 5. PS5 js
- 6. ML5 js
- 7. Python
- 8. Opencv
- 9. Flask
- VS Code (As The Code Editor)