

₹150,00,00,00,000



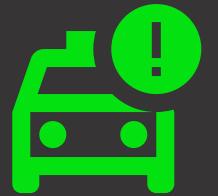
"THIS IS HOW MUCH TRAFFIC COSTS INDIA EVERY YEAR— AND GOVERNMENTS PAY MOST OF IT."



85-168+ HRS/YR
LOST ON AN AVG
BY URBAN
COMMUTERS



14-20 KM/H
PEAK RUSH HOUR
SPEEDS



TOP 20
MOST GLOBALLY
CONGESTED CITIES

TRAFFIC VIOLATIONS

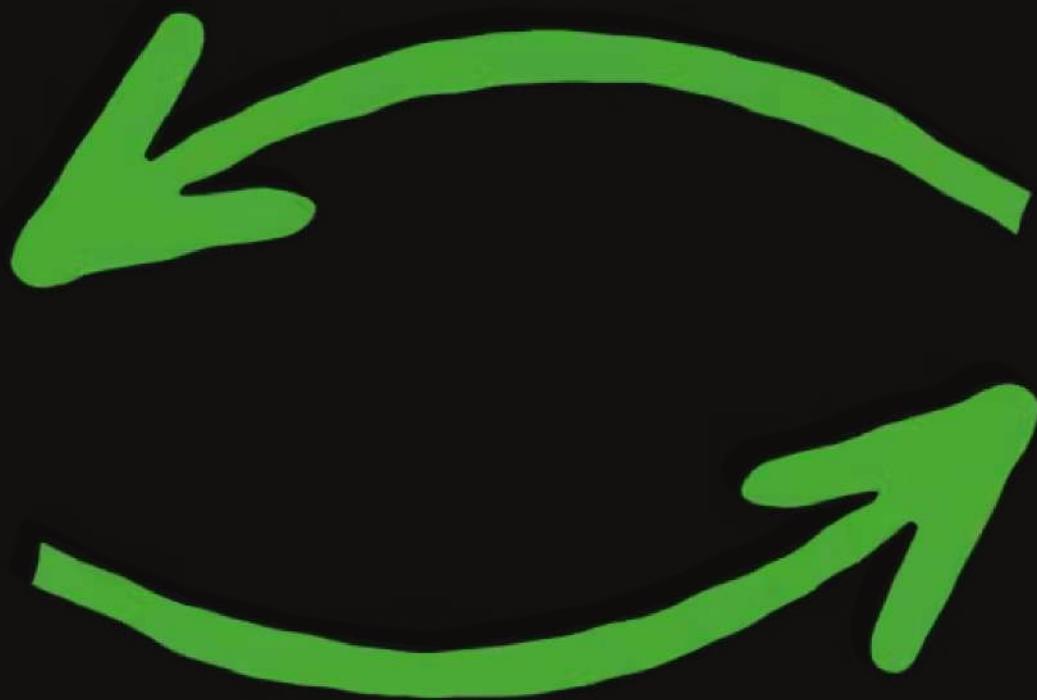
TRAFFIC VIOLATIONS CONTRIBUTE TO MORE TRAFFIC!!!

Violation Type



TRAFFIC
CONGESTION
IS NOT
CAUSED BY
VOLUME.
IT IS CAUSED
BY
VIOLATIONS

TRAFFIC
&
CONGESTION



TRAFFIC
VIOLATIONS

OVER 70% OF URBAN CONGESTION BEGINS WITH TRAFFIC VIOLATIONS

SOLUTION - FLOWIQ

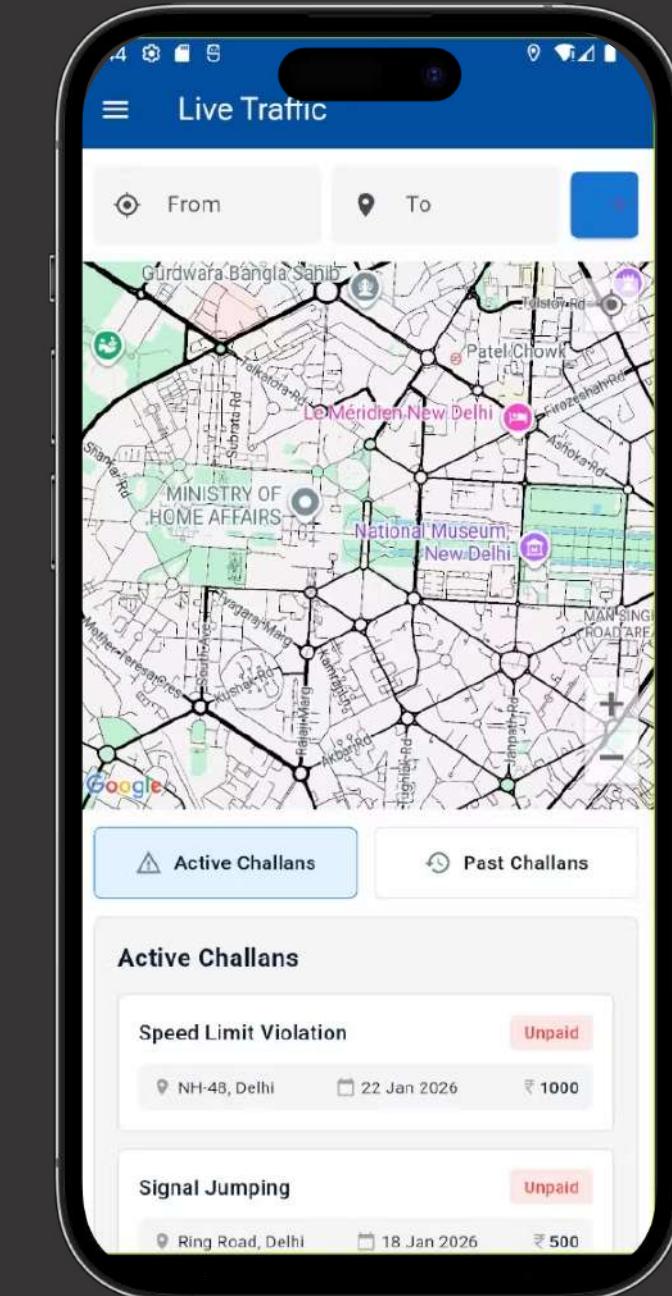
Admin Dashboard

Full control. Live data. Instant action



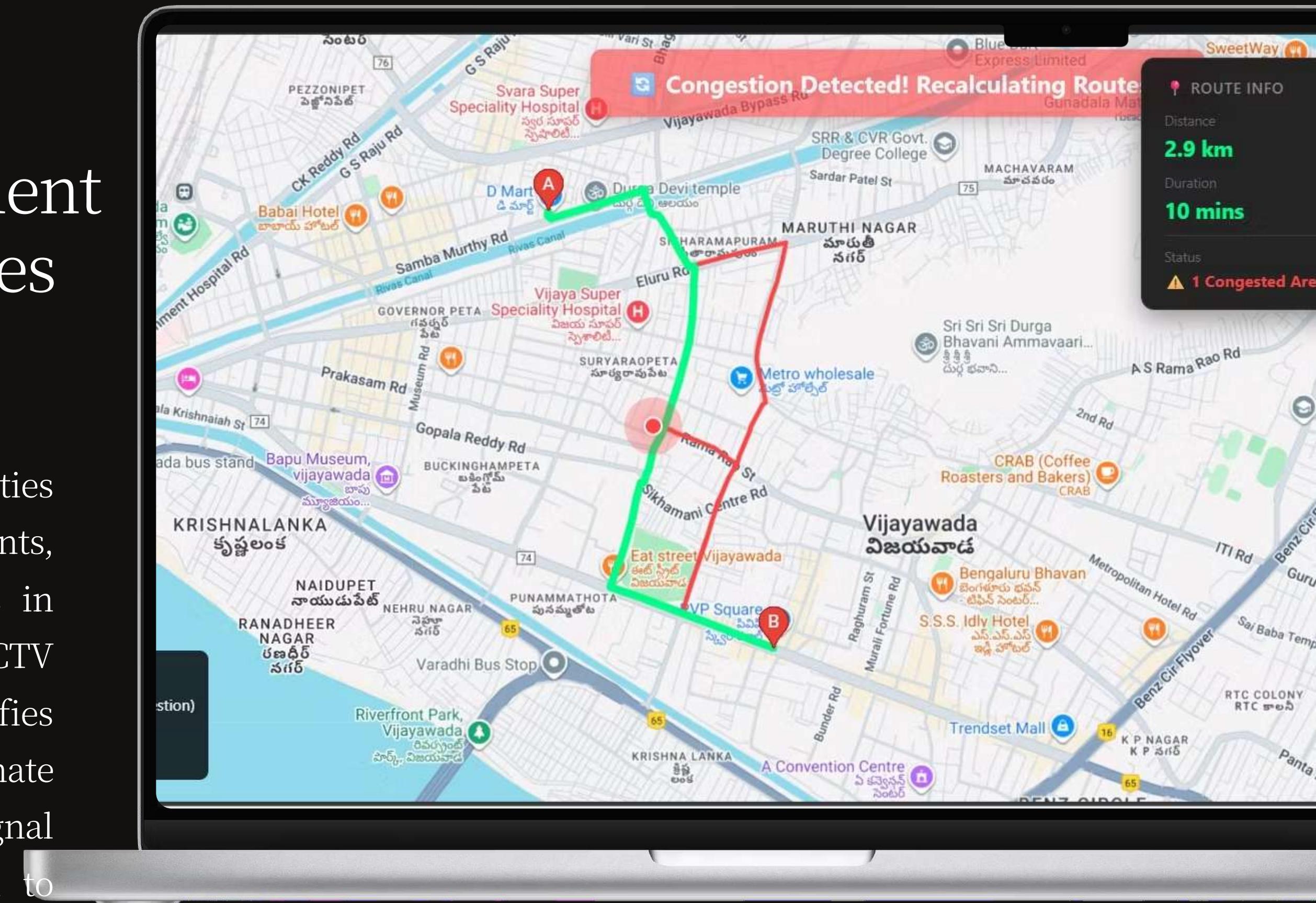
User Application

Fastest routes. Pay Fines easily



Live Congestion & Diversion Management for Traffic Authorities

This interface enables traffic authorities to detect congestion, accidents, construction zones, and roadblocks in real time. Using live density and CCTV data, the system automatically identifies bottlenecks, recommends alternate routes, and supports instant signal adjustments and field coordination to restore traffic flow efficiently.



Features

01

MULTI-CAMERA TRAFFIC PERCEPTION SYSTEM

Processes live CCTV feeds using YOLOv8 and SORT to detect, classify, and track vehicles across intersections with millisecond-level latency

02

AI-BASED TRAFFIC SIGNAL CONTROLLER

Dynamically adjusts green phases using live density, queue length, and historical patterns to minimize congestion and idle time.

03

AUTOMATED VIOLATION - DRIVEN ENFORCEMENT ENGINE

Detects wrong-way driving, signal jumping, and lane violations, extracts license plates, and generates challans automatically.

04

CITY-SCALE TRAFFIC ANALYTICS SYSTEM

Combines real-time data with predictive models to forecast congestion, recommend diversions, and support long-term infrastructure planning.

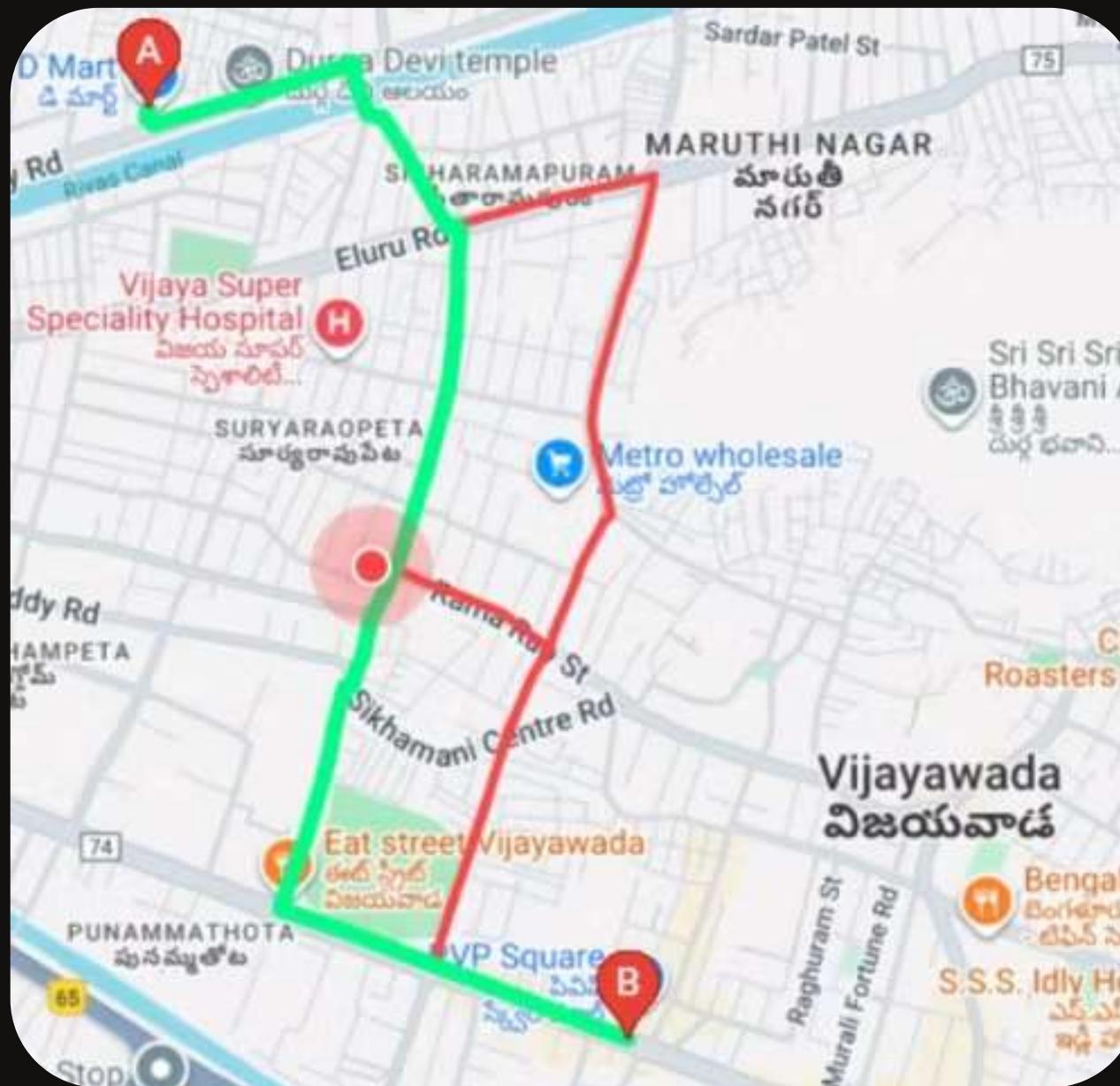
Benefits

For Government:

₹20,000+ crore saved annually through reduced congestion, automated enforcement, and lower operational costs.”

For Citizens:

Up to 250+ hours saved per year per commuter, with lower fuel costs and safer daily travel.



14+

Major Algorithms/models being run simultaneously

95%

Decisions powered by real-time traffic data

LIVE TRAFFIC
COMMAND CENTER

CONGESTION
HEATMAP

AUTOMATED FINES
ENFORCEMENT
SYSTEM



Building Since Forever! - Team Veda-Bytes



ADITI
SHARMA



SURYA
PRATIK



ABHINAV
PENTANI

SHANMUKESH
BONALA