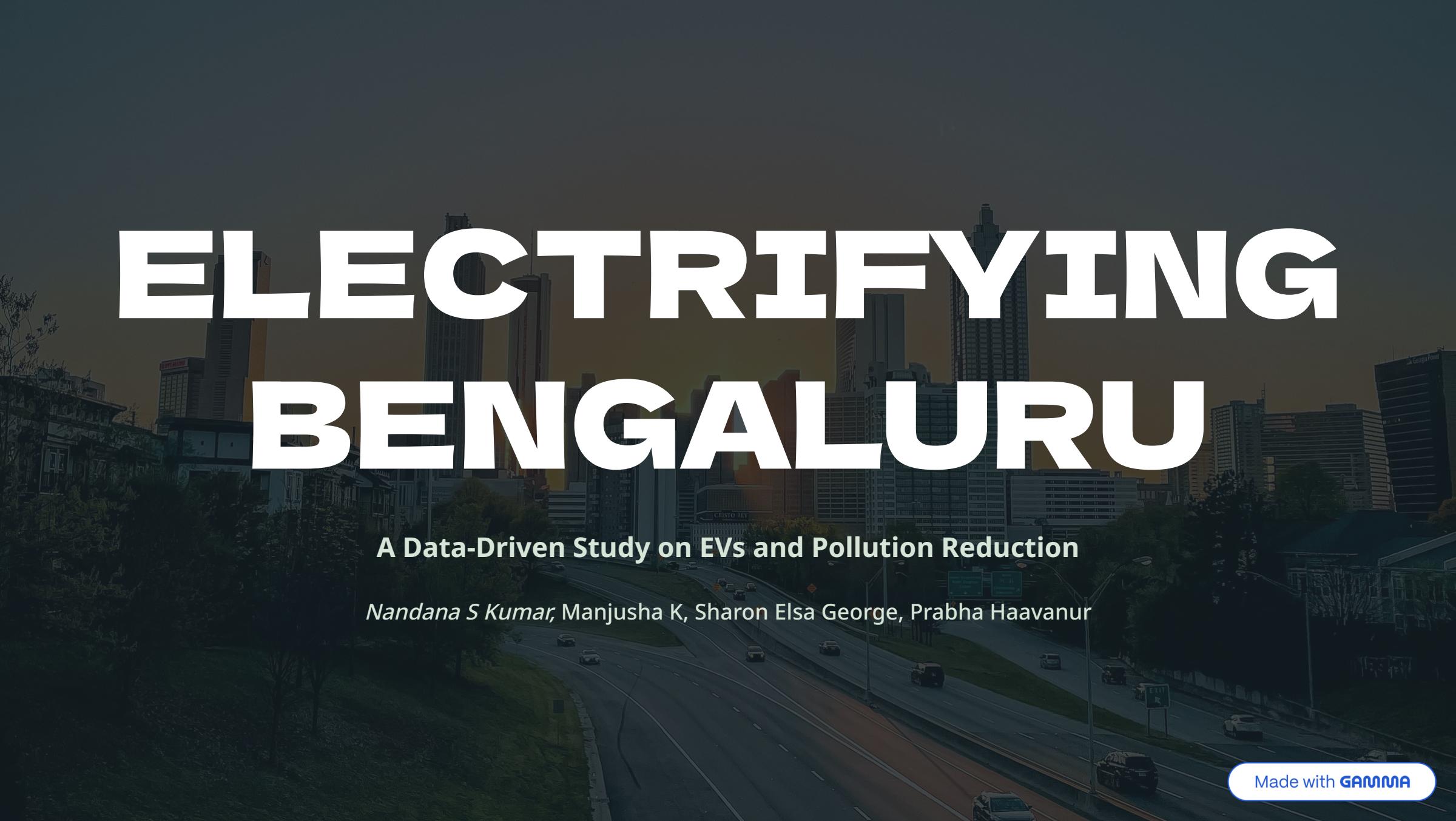


ELECTRIFYING BENGALURU



A Data-Driven Study on EVs and Pollution Reduction

Nandana S Kumar, Manjusha K, Sharon Elsa George, Prabha Haavanur

Project Objective:

Driving Bengaluru toward cleaner air: Evaluating how EVs reduce vehicle emissions.

The project confirmed that increasing EV adoption has a measurable impact on reducing Bengaluru's vehicular pollution.



Year-wise data (2018–2024) for pollution rates, total vehicles, and EV adoption in Bengaluru.



Estimation of how much vehicular emissions decreased due to EVs



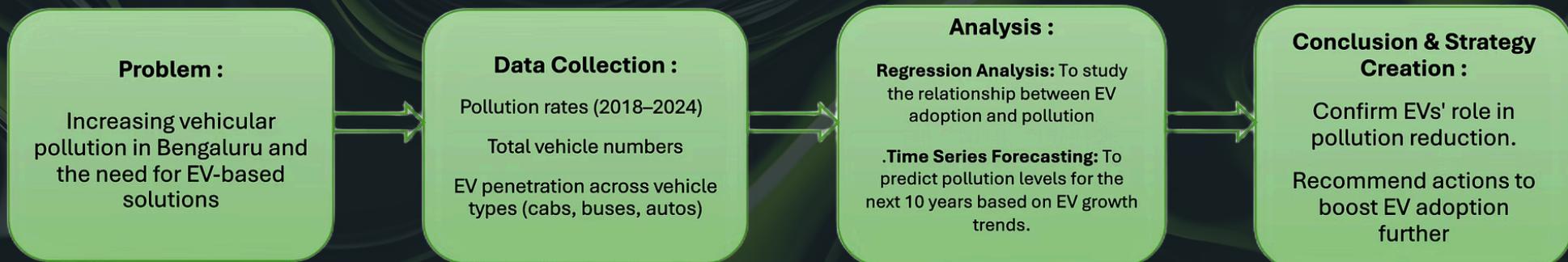
Correlation between EV growth and pollution reduction.



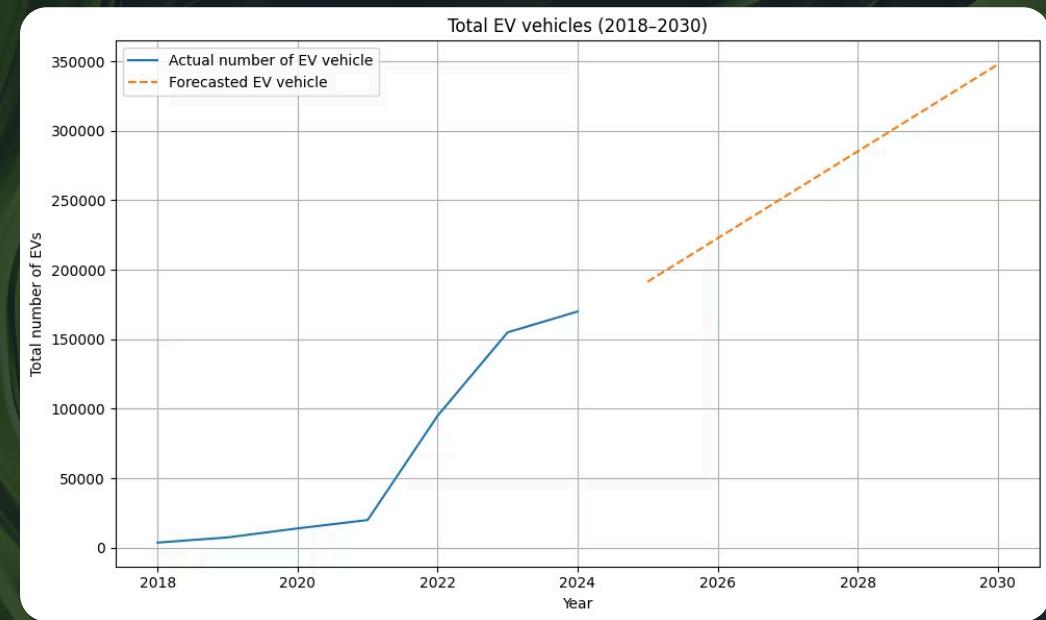
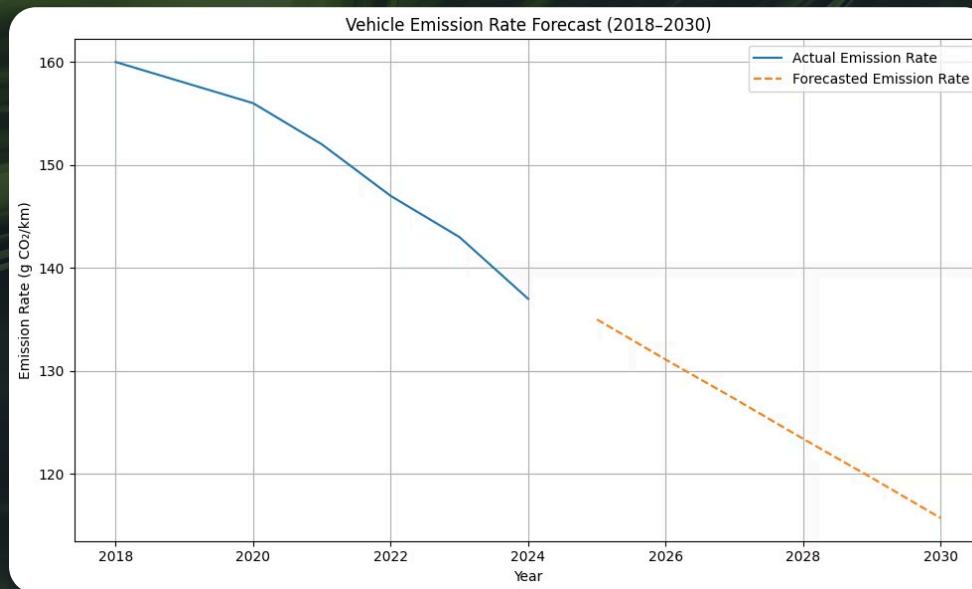
Time series analysis to forecast pollution trends and predict the impact of EV adoption over the next 10 years

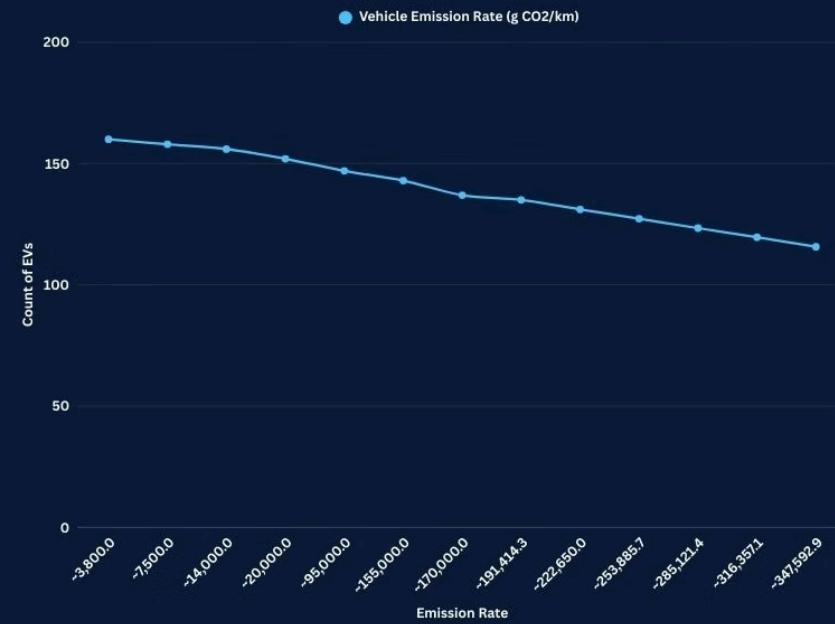
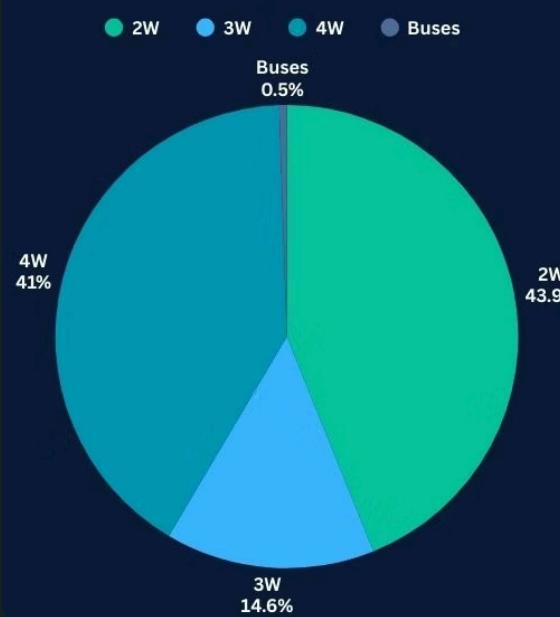
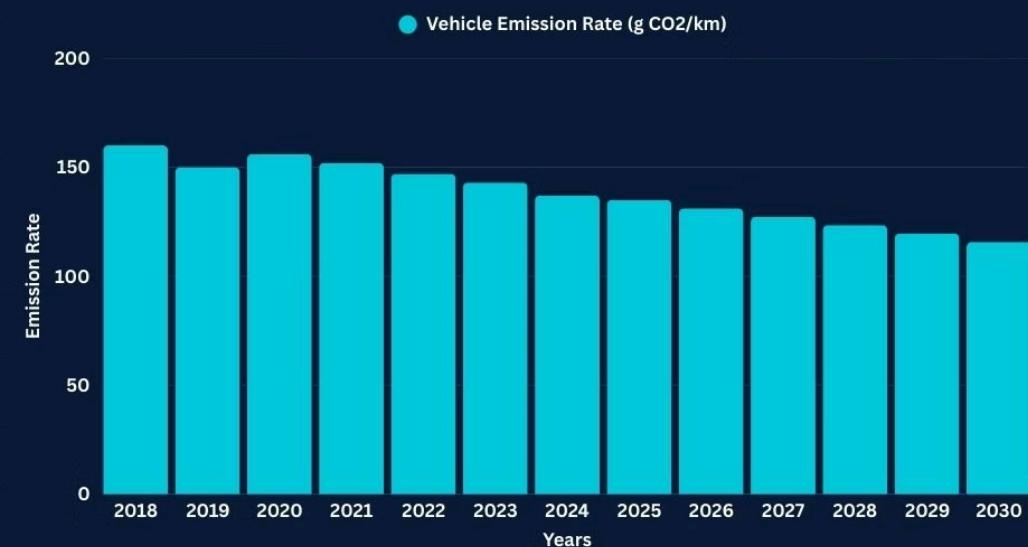
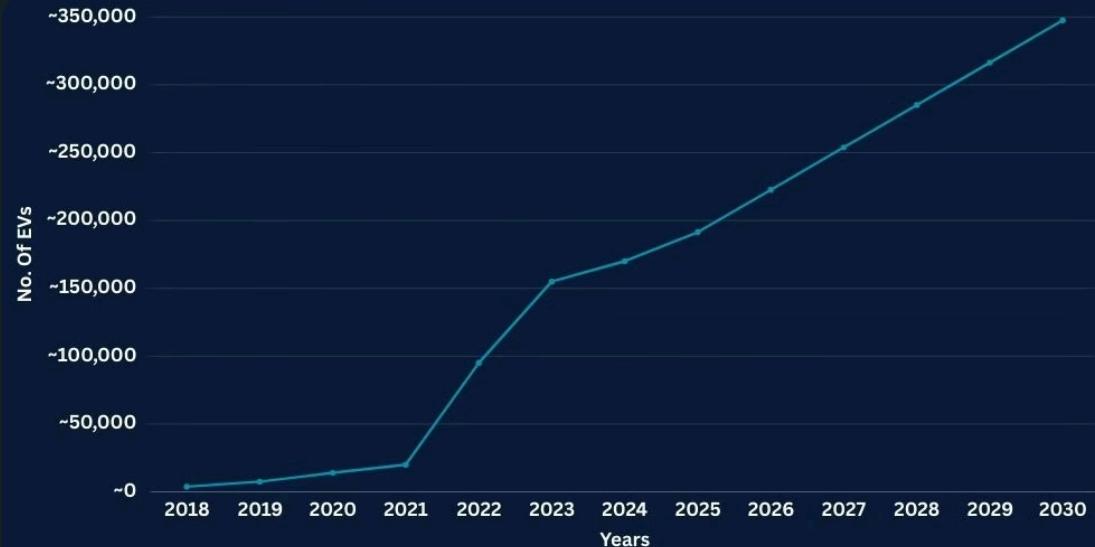


Project Methodology



Project Live





Project Use Cases

- 
- 1** **Government Policies:** Help design EV promotion and pollution control policies.
 - 2** **Urban Planning:** Assist in planning EV integration in public transport.
 - 3** **EV Charging Setup:** Guide where to build EV charging stations.
 - 4** **Pollution Reduction Programs:** Set realistic emission reduction targets.
 - 5** **Startup Investments:** Support EV startups and fleet businesses.
 - 6** **Research & Forecasting:** Predict pollution and EV trends till 2030.
 - 7** **Public Awareness:** Create campaigns to boost EV adoption.

Project Learnings

EUREKA moment

There was a point when we struggled to find the right dataset for the EV project, but after exploring several websites and government portals, we finally came across a convincing dataset that fit our needs

One mistake we'd never make again

One mistake we would avoid in the future is leaving too many tasks until the last minute. We would focus more on effective time management and better project maintenance throughout the process

OH NO moment

In the beginning, we had chosen tourism as our project topic, but we faced challenges in defining a clear problem statement and conducting a focused analysis

If we could start over

If we had the chance to start fresh, we would expand our focus beyond just vehicle emissions and include other pollution factors as well, aiming for the larger goal of reducing overall pollution levels in Bangalore

THANK YOU