



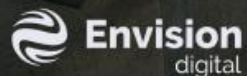
# Datakrew

Sumanta Bose

CEO

BUILD A BETTER FUTURE FOR SINGAPORE WITH THE  
**NET ZERO STARTUP CHALLENGE**

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Energy Innovation 2022

# OXRED – Unified intelligence for next-generation connected EV batteries

By Datakrew Pte. Ltd.

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# Your EV battery is a dormant bomb, ready to 💣💥🔥 at any time

Problem

Technology

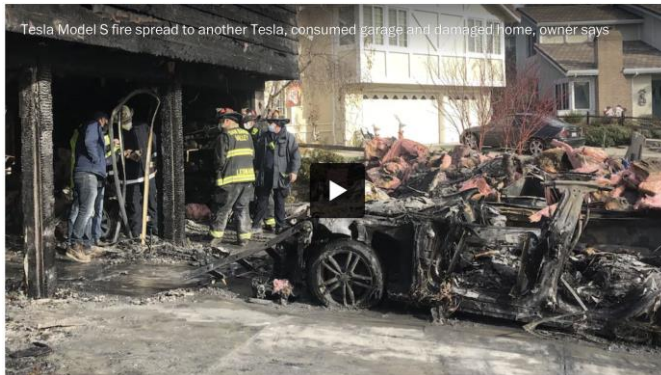
**While they were asleep, their Teslas burned in the garage. It's a risk many automakers are taking seriously.**

A fire inspector cited the thermal management system in one of the Tesla Model S sedans as one of two possible causes of the blaze, which showed what can happen when one electric car ignites another in a garage.

HOME > TRANSPORTATION

**A California couple's Tesla caught fire while charging overnight, ignited another Tesla next to it, and caused a massive house fire. They haven't been home in 8 months.**

Anna Coonan Aug 5, 2021, 11:40 PM



**Okinawa EV dealership catches fire in Mangalore**

Written by **Shakti Nath Jha**  
June 25, 2022 4:30:13 pm



**Massive fire at EV parking in Delhi, over 90 vehicles charred**

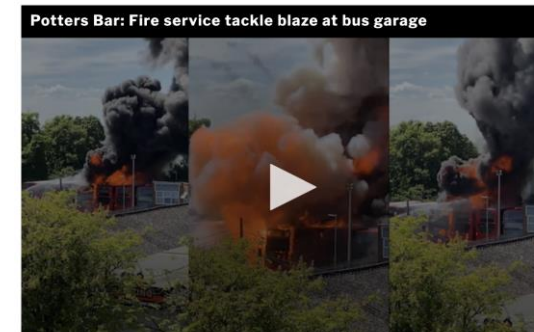
*Videos and images of the incident are being widely shared on social media.*

By Saloni Tandon - Published On: June 8, 2022 | Last Updated: June 8, 2022



**London bus explosion: Five electric buses go up in a fireball – smoke seen for miles**

FIVE electric double decker buses have exploded at the Potters Bar Bus Garage near London.



**EV battery explodes, killing 1 and injuring 3 in Andhra Pradesh**

The victim K Siva Kumar purchased the electric bike only on Friday. The detachable battery of the vehicle was kept on charging in his bedroom on Friday night and it suddenly exploded in the early hours when all were fast asleep, Suryaraopet Inspector of Police V Janaki Ramaiah said.





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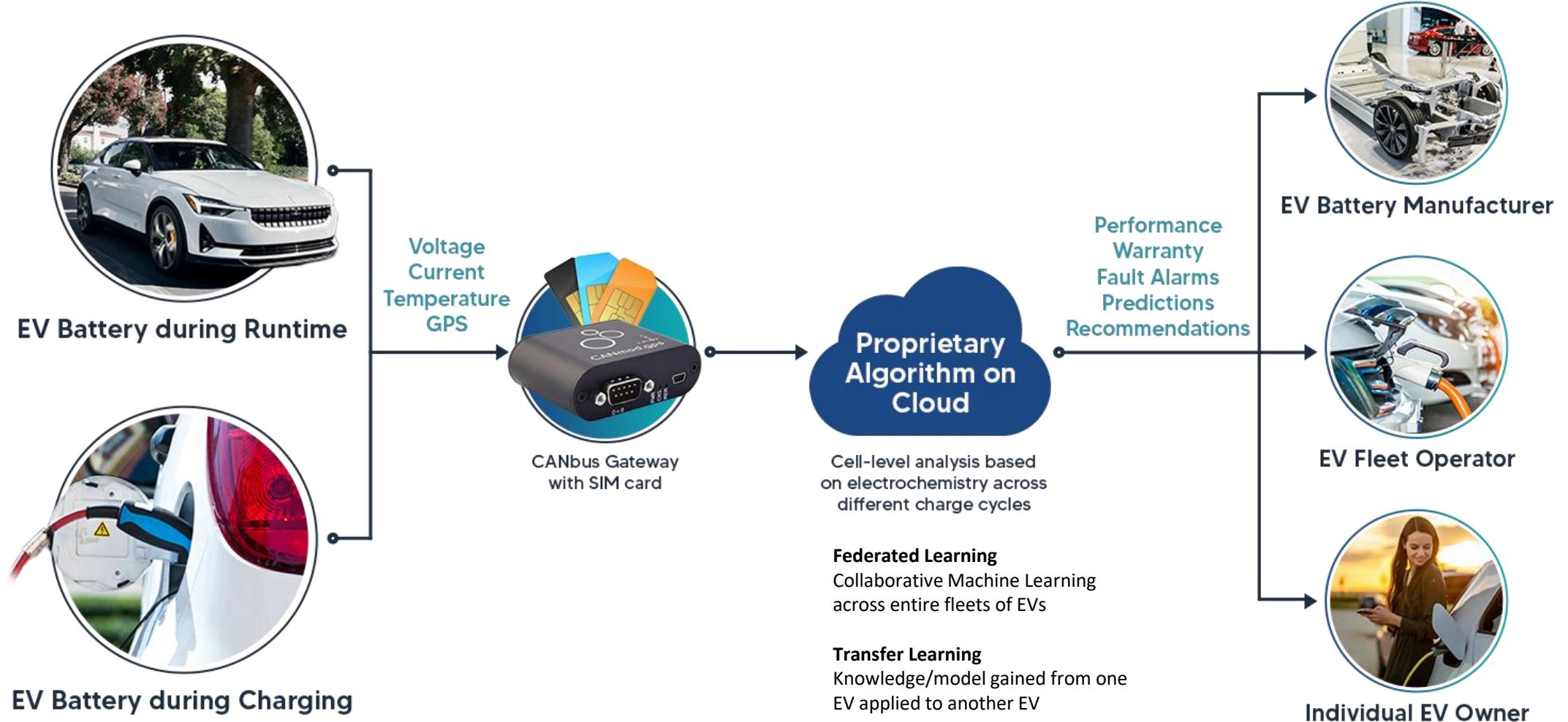
**If there was a simple way to describe why a battery would catch fire and explode, there would be a simple way of preventing it from happening.**



# OXRED improves battery lifetime, predicts faults, eliminates accidents and











Solution



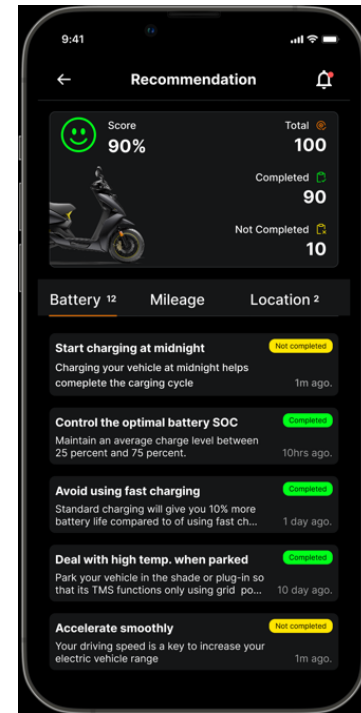
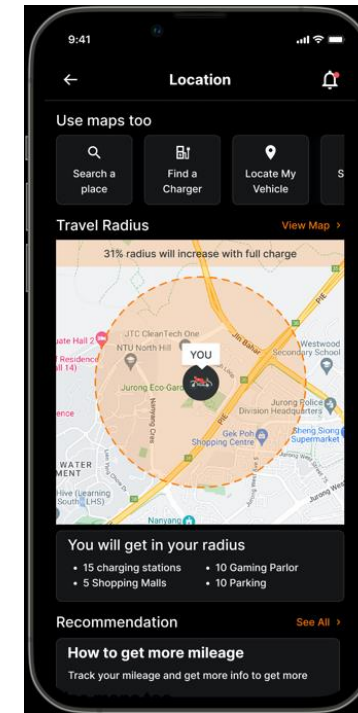
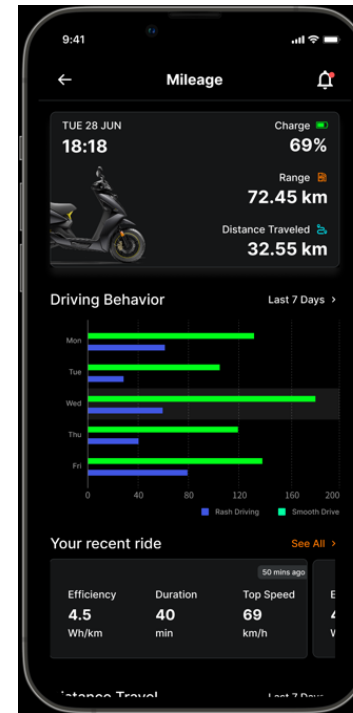
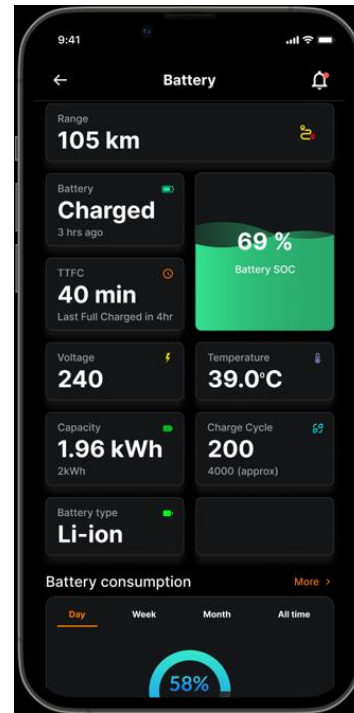
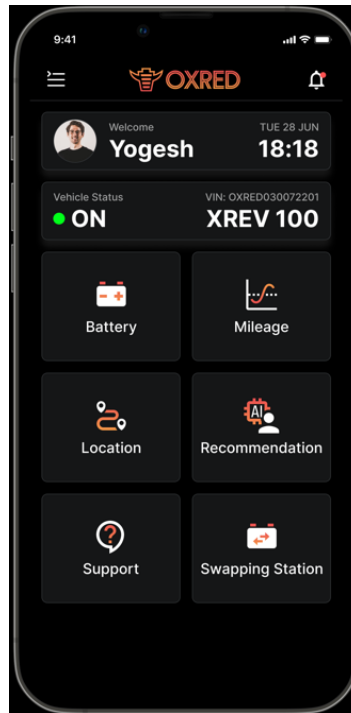
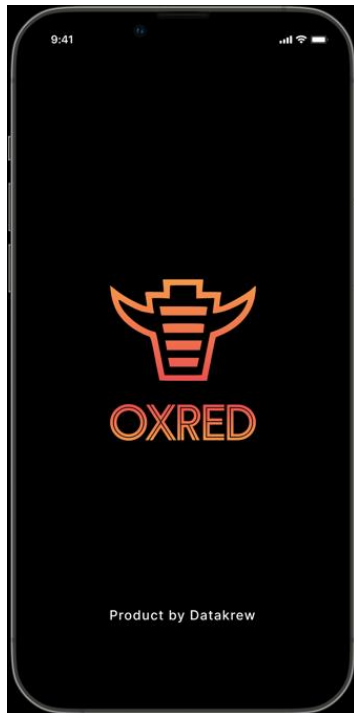
# OXRED – Customer vs Benefits Matrix

Benefits

	 <p><b>Battery Manufacturers</b></p>	 <p><b>Fleet Operators</b></p>	 <p><b>EV Owners</b></p>
 <p><b>Performance</b></p>	Ensure battery quality, monetize battery data, improve R&D	Avoid faulty battery from being in circulation	
 <p><b>Warranty</b></p>	Tie warranty with number of charge cycles instead of age	Extend warranty based on use, not on age or distance	
 <p><b>Fault Alarms</b></p>	Get alerts and offer maintenance services for new revenue	Get alerts and recall faulty vehicles from circulation	Get alerts and avoid accidents such as fire and explosions
 <p><b>Recommendations</b></p>		Get recommendations for battery repair/replacement	Get recommendation to start/stop charging (ideal operation)
 <p><b>Predictions</b></p>		Get prediction of battery remaining useful lifeline (SOH)	Get prediction of mileage (helps in travel planning)

# OXRED User App

App



## ABOUT US

- Singapore-based, backed by ESG & NTU
- Deep-tech IoT/AI start-up
- Patented battery diagnostics algorithm
- Backed by no-code IoT/AI platform
- Proven industrial traction with experience in **IoT, AI, battery chemistry, material science**
- Experienced team with PhDs

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## Our Investors

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**LIGHTHOUSE  
CANTON**

 **AngelList**

**Cloud Capital**

**Marquee Angels**

## Our Customers





# Datakrew team

Team

## Management Team



**Sumanta Bose, CEO**

Ex-Temasek Research Scientist in IoT & Security. PhD from NTU SG.



**Arjun Singh, CTO**

Ex-Aviabird Enterprise Software Architect with 5 years experience.



**Swapnajit Roy, CBO**

Ex-Citibank, Ex-IBM Sales Strategist & Analyst with 7 years experience.



**Naina Gupta, Firmware Lead & Security Architect**  
PhD from NTU SG.



**Arpan Jati, Hardware Lead**  
PhD from IIIT India.

+ Team of **40 members** spread across 4 countries/time-zones

## Alma Mater and Work Experience of Senior Team Members and Advisors





# Safer EVs for *Future Generations*

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# Connect with Datakrew

