



TechElevate

IOT | Mobility | Artificial Intelligence | E-Learning | Cloud | Analytics

About Us

TechElevate is a joint venture under 1885 Delivery Services, an invested company by EasyLease Motorcycle Rental (An IHC Group Company), formed to power digital transformation across the GCC and beyond.



Strategic Partnership

Partnership under 1885 Delivery Services, an invested company by EasyLease Motorcycle Rental (An IHC Group Company)



Digital Transformation

Driving digital innovation across the GCC and beyond with future-ready solutions



Innovation Focus

Driving innovation through bespoke AI, IoT, and fleet optimization platforms with emphasis on sustainability

"Enabling real-time visibility, automation, and cost savings for logistics, healthcare, and mobility platforms."

Vision & Mission



Our Vision

"To elevate the future of logistics and enterprise operations through intelligent, bespoke technology solutions that empower businesses to scale seamlessly and operate with precision."



Our Mission

At TechElevate, our mission is to craft cutting-edge, bespoke digital solutions that integrate automation, AI, and real-time intelligence to transform logistics, fleet, and enterprise management.

Key Highlights



16+ Years of Expertise

Specialized in IoT, Web and Mobile based digital platforms



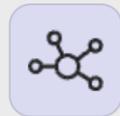
200+ Expert Team

In-house developers, testers, project managers and specialists



Global Fleet Solutions

Tracking 150,000+ vehicles across 9 countries since 2011



Jio Tech Partnership

IoT turnkey modules with over 1 million connected assets



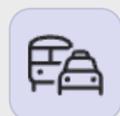
3500+ School Buses

Monitored and managed through our advanced platforms



Indian Army Solutions

Proven mobility solutions provider via Jio partnership



Cab Dispatch Systems

Early solutions for Meru Cab across India



COVID Crisis Response

Tracked 500,000+ oxygen cylinders for government projects



600+ Reusable Components

Improved time & cost optimization through efficient code reuse

Our Business Model



Bespoke AI, IoT & Custom Solutions

Tailored technology solutions for logistics and enterprise operations



Product Creation with Generative AI

Emerging AI solutions for advanced operational intelligence



SaaS Platforms

Scalable cloud-based solutions with subscription access



Industry-specific Modules

Specialized components designed for unique sector requirements



Licensable Products

Technology solutions available through flexible licensing models

Our Services



Product Engineering

- Software Product Development
- Product Modernization
- Maintenance & Support



Internet of Things

- Connected Automotive
- Fleet Management & Truck Dispatch
- Asset Management



Mobile Applications

- Android apps Development
- iOS apps Development
- Hybrid & PWA Apps development



Technology Consulting

- Full stack App development
- Database development
- Mobile App development



Digital Transformation

- Application Modernization
- Business Workflow Automation
- Enhanced User Experience



Cloud Solutions

- Developing, customizing and migrating applications
- Cloud computing consulting services
- Azure, AWS and GCP

Software Solutions

Logistics

- Cargo Suite
- Truck Dispatch
- Fleet Management

Education

- RFID Attendance & School Bus Tracking
- QRcode Teacher Attendance
- Student Safety Management

IoT

- Asset Connect
- Connected Car

HR Solutions

- Recruitment
- Job Portal
- Visitor Management

Digital Transformation

- Digital business interfaces
- Big data Analytics
- Cloud computing
- Mobile data services

Mobile Apps

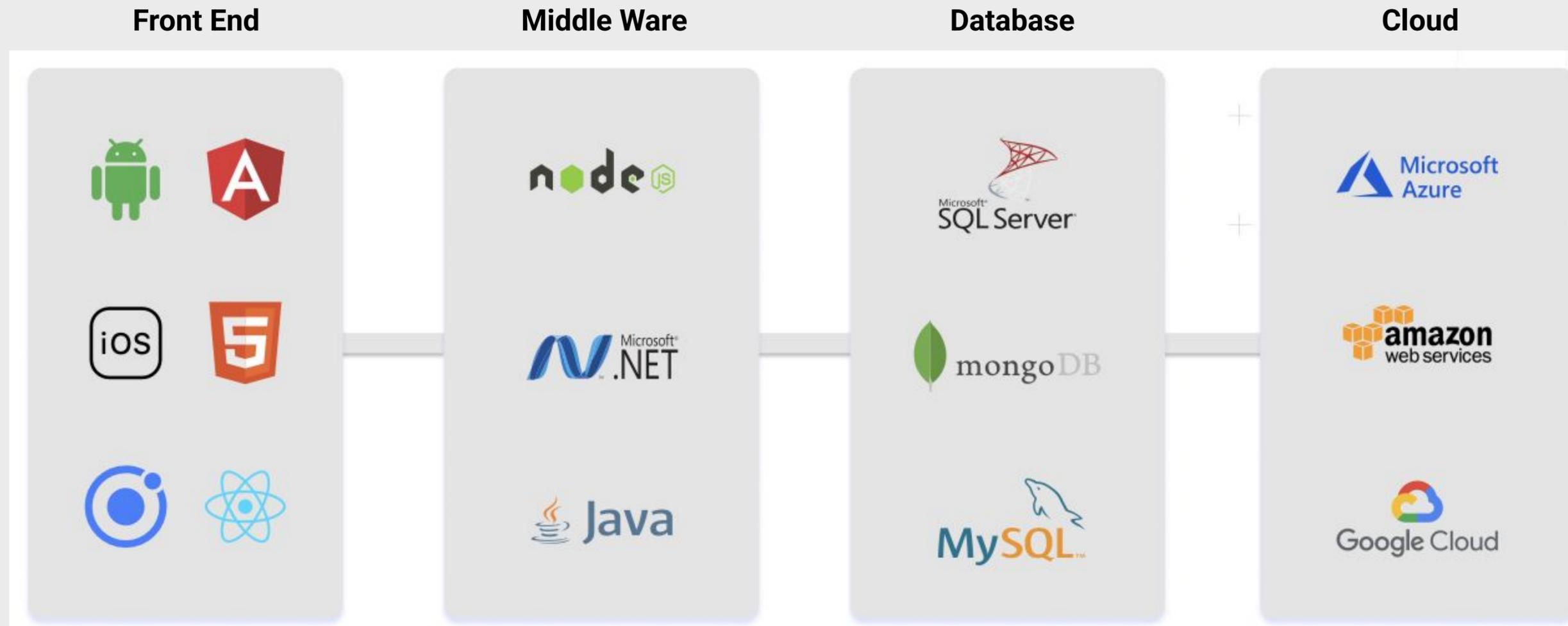
- Salesperson Tracking
- Meeting App
- E-POD delivery App

Clients



Technology Stack



- Web & Mobile - Angular, React JS, ASP.NET, Android, iOS, React Native, Flutter
- API & Back-end - Node.js, Spring Boot, .NET Core, C#, Java, TypeScript, MQTT, Kafka
- SQL & NoSQL - MySQL, MSSQL, MongoDB, Azure Cosmos DB
- Cloud Computing - Azure, AWS, GCP, G42

OUR FLAGSHIP PRODUCTS

AssetConnect **AMPS** **AssetHealth** **DeepVision**

AssetConnect – Stay Connected with Smart fleet

AssetConnect solution is designed based open source IoT architecture, capable of integrating numerous types of devices, sensors, 3rd party systems and communication channels.

Realtime Fleet Tracking

Real time fleet tracking using Maps, fleet movement, watch trip history with playback



Geofencing

Create Geofence to monitor entry & exit of POIs like warehouses customer delivery points, and factories

Truck Dispatch & Monitoring

View fleet status like moving / idle / stopped, Fleet efficiency, notifications, trip duration with journey time and ETA



Devices & Sensors Integration

OBD and Non-OBD devices integration, Remote Locking, RFID, door, fuel, temperature and pressure sensors integration

Control Tower Management

Emergency alerts and events display in dashboards, notify users via SMS / Email / Push Notifications to take actions.



Last mile delivery

Warehouses / Hubs are dispatch centers where shipments are shipped to these hubs and from there sent to last mile delivery

HumSafar – Connected Auto Platform

Humsafar is a scalable platform that supports wide range of connected auto use cases, quick fleet onboarding, driver behavior alerts, cargo trip analysis, alert videos, Eway bills, E-POD and much more.

Fleet Performance

Fleet usage in a day, distance travelled, tips completed / ongoing, long idle, engine, journey durations



Systems of Systems Integration

Integrate with external systems like ERP / SAP / partner systems / ticketing systems, web hooks, 3rd party APIs

Cargo Trip Management

Create trip, select transporter / material / consignee / route, Track trip status from first mile to last mile, get instant updates and whereabouts of shipment, alerts, Eway bills, EPODs



Multiple Tracking Sources

OBD / Non-OBD GPS trackers / SIM / mobile app / portable trackers / 3rd party device platform to platform

Data Analytics

Trips scheduled, yet to start, delayed, on-time. Devices active / inactive statistics, Fleet performance trends, driver score and trip rating trends

ADAS

Advanced Driver Assistance System enable drivers to receive safety notifications through monitoring cameras and sensors



AssetTrack– Smart Assets Management

AssetTrack enables users get access to real-time asset data through sensors like Beacon / BLE, RFID tags. Manage assets by knowing the location, identify anomalies and send alerts, increase efficiency and life.

Sensors and Tags

Asset are embedded with BLEs, RFID tags, temperature and pressure sensors to get access & continuous monitoring



Assets Inventory

Connected supply chain at the asset level is helping to manage inventory positions, get greater visibility into actual inventory



Asset Tracking

Real time asset tracking for its live location, in or out asset movement, monitor environment conditions, theft prevention



Alarms

Automated alerts and notifications for major events and asset failures, abnormalities, sudden change in temperature



Predictive Maintenance

Analyzing real-time data from the devices, rule engines tell when a device is headed towards a complete failure, send predictive maintenance alerts to enhance efficiency and productivity



AssetHealth – Remote Healthcare Management

AssetHealth is a remote care platform, ecosystem of IoMT sensors like wearables, pulse monitors used for constant monitoring of patient's vitals, accurate diagnosis,, preventive care, connected blood banks and diagnostics

Remote Health Monitoring

Smart watches, bands, heart rate sensors to monitor patient vitals, connected wearable diagnostics to help prevent potentially fatal incidents



Blood banks, Diagnostics, PHC

Connected apps for blood blank, donor and receiver. Smart Kiosks, Labs with minimal expert staff supervision. Health centers and patients receiving online report results,



Physician Care

Physicians remotely monitor patients, track treatment progress, customized treatments become possible, along precise investigations.



Smart Hospitals

Tracking of movable assets and better visibility into medical asset utilization. Streamlines ordering, storage and use of medical devices & consumables to reduce inventory costs



Drug Management

Better drug management, doctors can monitor the dosage and track effectiveness, sending reminders to patients to take medicine on time



Data Management & Analytics

Process, assess, and use medical sensors data to analyze, notify to care providers, preventive care, offer personalized treatment





Product Dashboards

Dashboard - Jio Motive

admin.jiomotive.jio.com/#/pages/dashboard/aggregate-dashboard

JioMotive

Dashboard > Fleet Dashboard

74819
All

4072
Connected

157
Disconnected

2675
Connection Lost

36667
Sleep

4340
Provisioned

26908
Not Reporting

	IMEI	Mobile Number	Email	DONGLE STATE	CONNECTION TIME
+	911560650059772	7718891377	idam7718891377@ril.com	Connected	N/A
+	911560650059770	8296078926	idam8296078926@ril.com	Connected	N/A
+	911111111111154	8078900123	test.9728@ril.com	Connected	N/A
+	911560650059771	7987493959	idam7987493959@ril.com	Connected	N/A
+	911659400115599	9901756756	atanu@rocketmail.com	Connected	14-04-2025 11:26 PM QH

Powered By JioMotive

- Dashboard
- Fleet Dashboard**
- Enterprise Dashboard
- Tenant Management
- Device Management
- Device Diagnostics
- System Settings
- System Reports

Dashboard - Jio Motive

admin.jiomotive.jio.com/#/pages/dashboard/enterprise-dashboard

JioMotive

Dashboard > Enterprise Dashboard

- Dashboard
- Fleet Dashboard
- Enterprise Dashboard**
- Tenant Management
- Device Management
- Device Diagnostics
- System Settings
- System Reports

39827
All

5256
Connected

167
Disconnected

1795
Connection Lost

12990
Sleep

7173
Provisioned

12446
Not Reporting

	IMEI	Mobile Number	Email	DONGLE STATE	LAST CONNECTION TIME
+	110000000000019	3399887703	27groceryb@gmail.com	Connected	N/A
+	861724032906701	9188640815	bhavya.bs@ril.com	Connected	16-04-2025 09:58 AM
+	4556130903124127	8080332202	gstaneja79@gmail.com	Connected	N/A
+	110000000000030	3399887703	27groceryb@gmail.com	Connected	N/A
+	323433433433308	9004667080	jagan.rath@ril.com	Connected	16-04-2025 02:24 PM

Powered By JioMotive

14:56

Dashboard - Jio Humsafar

The dashboard features a sidebar menu on the left with the following items: Dashboard, Tracking, Trips, Configure, Settings, AutoBazaar, Data Analytics, Data Insights, Reports, Command Centre, and Expenses. The main content area is a grid of 30 feature tiles, each with an icon and a label. The tiles are arranged in four rows: the first three rows have seven tiles each, and the fourth row has two tiles. The top right of the dashboard includes the 'JioHumsafar' logo, a 'Vehicle Tracking Solution' label, and three utility icons: a document, a notification bell, and a user profile.

Row	Tile 1	Tile 2	Tile 3	Tile 4	Tile 5	Tile 6	Tile 7
1	Alert	Distance	Vehicle	Driver	Geofence	Trip	Ignition Master
2	Overspeeding	EWB	Unauthorised Distance	Logs	SIM Track	Archive	Detention
3	Voice Box	Master Cargo Trip	Ignition Analytics	IN and OUT	Vehicle History	Geofence Speed Violation	Time Based Distance
4	NRD History	Ignition Trip Distance	FR Log	New Driver	Elock Logs	Uptime	Custom Geofence In Out
5	Immobilizer Logs	Custom HUL Report					

Dashboard - Jio Humsafar

Vehicle Tracking Solution

Dashboard > Summary

Vehicle Status

639 Moving View All	141 Idle View All	2022 Stopped View All	136 Not Reporting View All	0 Under Maintenance View All	69 Installation In Progress View All	42 Connection Lost View All
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3049
All Vehicles
[View All](#)

Alert Ticker

 UP HA 8429	12/12/2024 03:08:23 PM
UP HA 8429 - generated harsh braking alert	● Medium
 UP NOID 8438 FTX	12/12/2024 03:08:23 PM
UP NOID 8438 FTX - device generated main power disconnect alert	● Medium
 UP NOID 8438 FTX	12/12/2024 03:08:23 PM
UP NOID 8438 FTX - Engine stopped	● Medium
 RJ BRPR 1047 FRT	12/12/2024 03:08:23 PM

Device Status

3049 Total	2802 Active	178 Inactive	69 Provisioned	0 Removed
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Dashboard - Jio Humsafar

JioHumsafar Vehicle Tracking Solution

Tracking > Summary

Live Status ▼ ⓘ

674 Moving View All in Map	138 Idle View All in Map	1994 Stopped View All in Map	137 Not Reporting View All in Map
0 Under Maintenance View All in Map	69 Installation In Progress View All in Map	37 Connection Lost View All in Map	3049 All Vehicles View All in Map

Map ▼

Map | Satellite

Map showing vehicle locations across Maharashtra, India. Locations include Junagadh, Surat, Dhule, Jalgaon, Akola, Wardha, Nagpur, Chandrapur, Nanded, Nizamabad, Nashik, Mumbai, Pune, and Navi Mumbai.

JioHumsafar Vehicle Tracking Solution

3049 All On Trip Not On Trip Next update at

Map View List View Analytics

Map | Satellite

Map showing vehicle locations across India and surrounding regions. A legend for Vehicle Status is shown below the map:

Vehicle Status	Count
Moving	669
Idle	139
Stopped	1992
Installation In Progress	69
Under Maintenance	0
Not Reporting	137
Connection Lost	43

JioHumsafar Vehicle Tracking Solution

Dashboard > Video Alerts

Video Quota

Allocated	47600	Used	176	Available	47424	Video Quota Per Device	99
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COLLISION_WARNING

Vehicle: DD01A9078

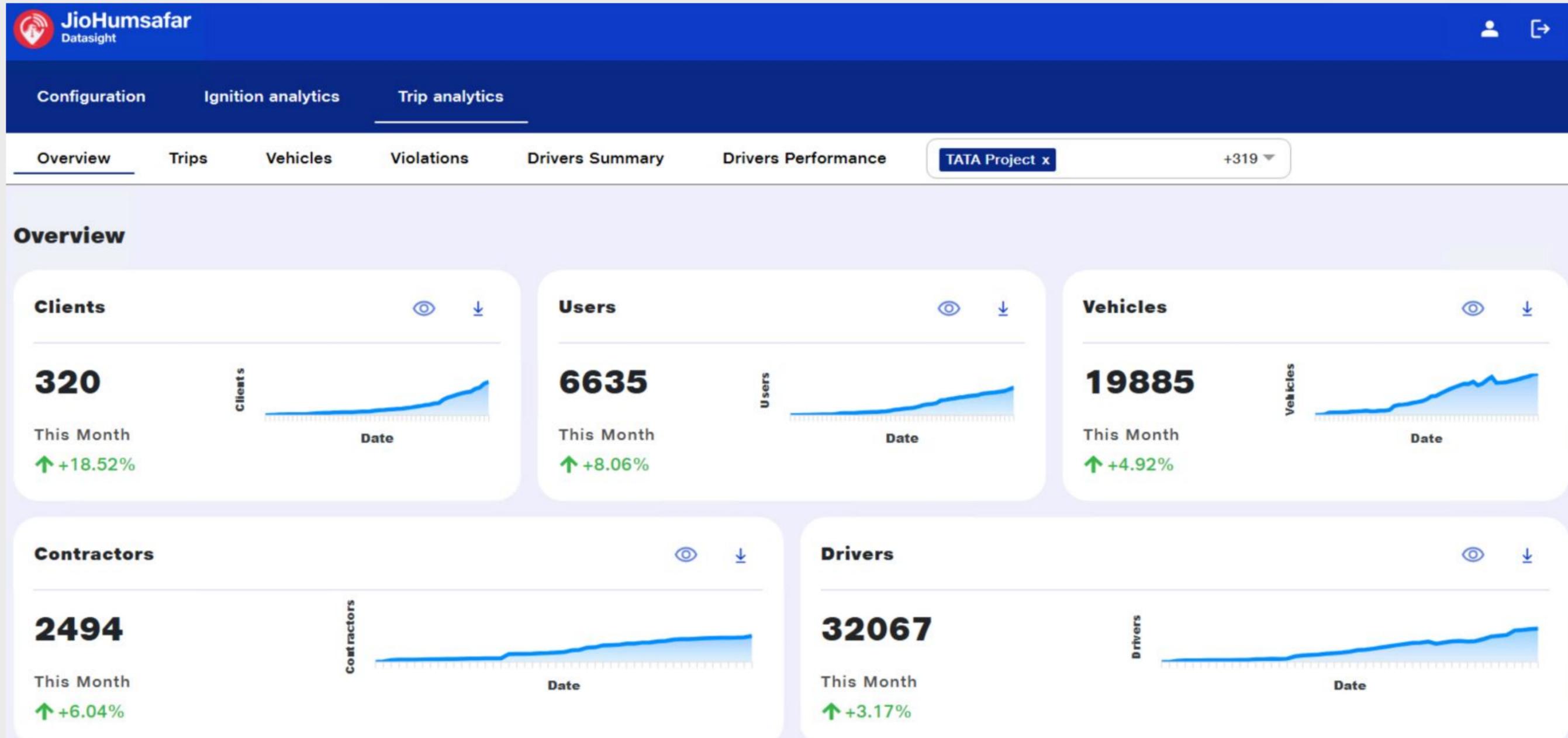
Driver: Devjibhai Tekiya (8980751251)

Alert: COLLISION_WARNING (12/12/2024 03:16:59 PM)

[Play Simultaneously](#)

Outward (1/1) Inward (1/1)

Dashboard - DataSight



Dashboard - DeepVision



Candy

Dashboard > Summary

- Home
- Reports
- Settings
- Help

Total Employees

1363

Passport

Total	Active	Expired	Near Expiry
1356	1344	12	4

Visa

Total	Active	Expired	Near Expiry
1338	1337	1	0

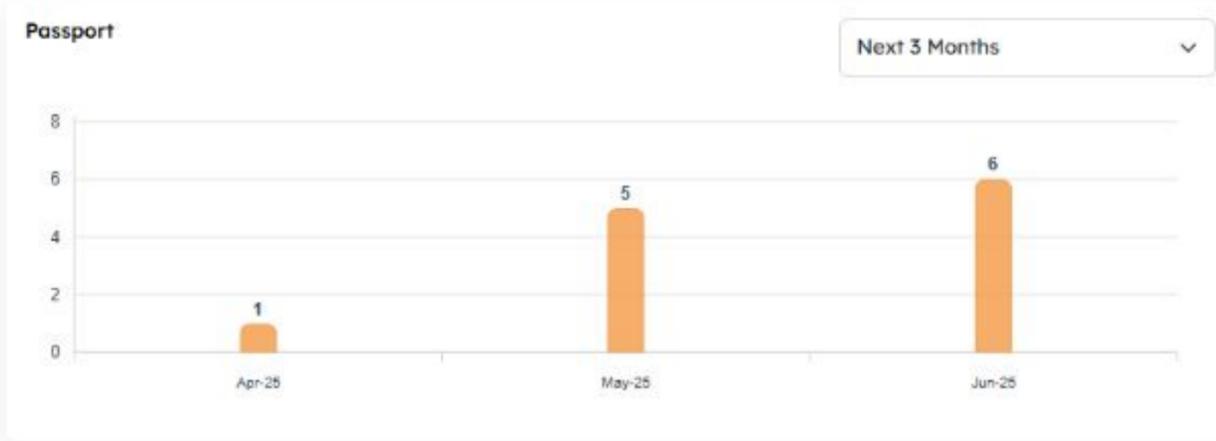
Driving License

Total	Active	Expired	Near Expiry
1110	1009	101	16

Emirates Id

Total	Active	Expired	Near Expiry
1315	1204	111	10

Documents Expiry



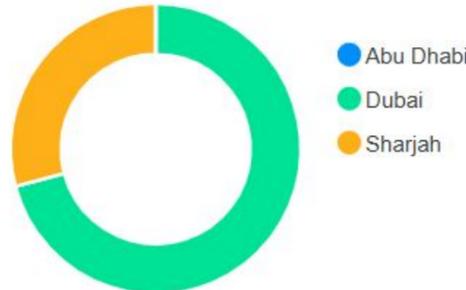
Dashboard - DeepVision



Candy

Dashboard > Summary

Riders Emirate Metrics



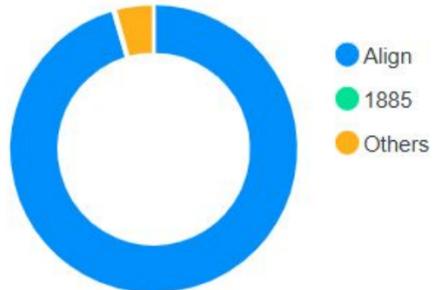
Vehicles



Clients



Sponsorship



Nationality

Bangladesh 63	Cameroon 3	Egypt 2	Ethiopia 13	Gambia 1	Ghana 20
India 145	Morocco 1	Myanmar 1	Nepal 72	Nigeria 2	Pakistan 941
Philippines 1	Sierra Leone 4	Sri Lanka 67	Togo 1	Uganda 14	United Arab Emirates 1
Others					

Dashboard - DeepVision

Browser: hrm.atlqore.com | User: Candy

Navigation: Summary

Documents Expiry

Passport (Last 12 Months)

Month	Count
May-24	0
Jun-24	0
Jul-24	0
Aug-24	1
Sep-24	0
Oct-24	1
Nov-24	0
Dec-24	0
Jan-25	1
Feb-25	1
Mar-25	4
Apr-25	1

Visa (Next 12 Months)

Month	Count
Apr-25	0
May-25	0
Jun-25	0
Jul-25	1
Aug-25	2
Sep-25	0
Oct-25	0
Nov-25	0
Dec-25	2
Jan-26	0
Feb-26	0
Mar-26	1

Driving License (Last 12 Months)

Month	Count
May-24	2
Jun-24	1
Jul-24	5
Aug-24	5
Sep-24	5
Oct-24	4
Nov-24	9
Dec-24	9
Jan-25	11
Feb-25	9
Mar-25	18
Apr-25	13

Emirates ID (Last 12 Months)

Month	Count
May-24	8
Jun-24	4
Jul-24	9
Aug-24	17
Sep-24	10
Oct-24	5
Nov-24	7
Dec-24	3
Jan-25	7
Feb-25	6
Mar-25	11
Apr-25	11

Mobility Platform

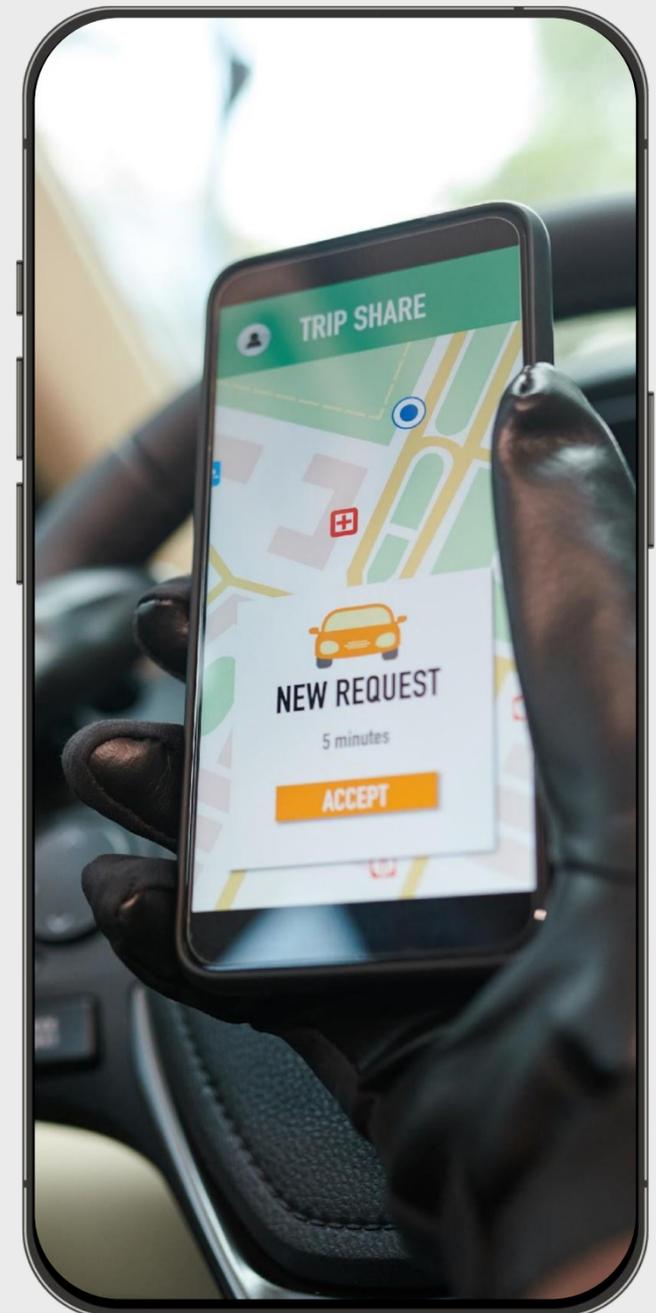
- **Framework:** Android, iOS

- **Features:**

- Live navigation
- SOS alerts
- Work logs
- Video coaching
- Checklists
- Notifications

- **Customer Tracker App**

- Vehicle tracking
- Fleet Status
- Analytics Dashboard
- Location history and logs



Key Capabilities

Fleet-Specific

Feature	Description	Supported Technologies
Real-Time Vehicle Tracking	Live GPS tracking of trucks, vans, bikes	GPS/GLONASS, 4G/5G, IoT SIM
Trip & Route Optimization	Dynamic routing for fuel/time savings	Google Maps API, HERE Maps
ADAS (Advanced Driver Assistance)	Collision warnings, lane departure alerts	Netradyne/AI cameras, radar sensors
Driver Score & behaviour Analytics	Scoring based on harsh braking, speeding	Telematics (OBD-II, CAN Bus)
First/Last Mile Delivery Tracking	Proof of delivery (POD), geofenced check-ins	BLE beacons, RFID, Driver App
Documents & Expiry Notifications	Automated alerts for insurance, permits, servicing	AI-based OCR, Calendar Sync
Service & Maintenance Alerts	Predictive maintenance for engines, tires	OBD-II, IoT vibration sensors

Fleet-Specific Sensor & Tracker Support

Vehicle & Driver Monitoring

Device	Function	Integration Method
OBD-II Trackers	Fuel monitoring, engine diagnostics	CAN Bus, J1939, MQTT
ADAS Cameras (Netradyne, Samsara)	AI-based driver coaching, accident recording	HTTP API, RTSP stream
Driver Panic Button (SOS)	Emergency alerts to fleet managers	MQTT, SMS/Email webhooks
E-Locks & Cargo Sensors	Tamper detection, cold chain compliance	Zigbee, LoRaWAN
Mobile App Trackers (Driver App)	Live ETA updates, delivery proof (signature/photo)	iOS/Android SDK

Scalable Architecture for Fleet

Deployments Fleet-Specific Scalability Needs

Requirement	AssetConnect Solution
High-Frequency GPS Updates	Edge preprocessing → Cloud burst scaling
100K+ Vehicle Fleets	Distributed MQTT brokers + Kafka streams
Real-Time ADAS Processing	Edge AI (NVIDIA Jetson, AWS Panorama)

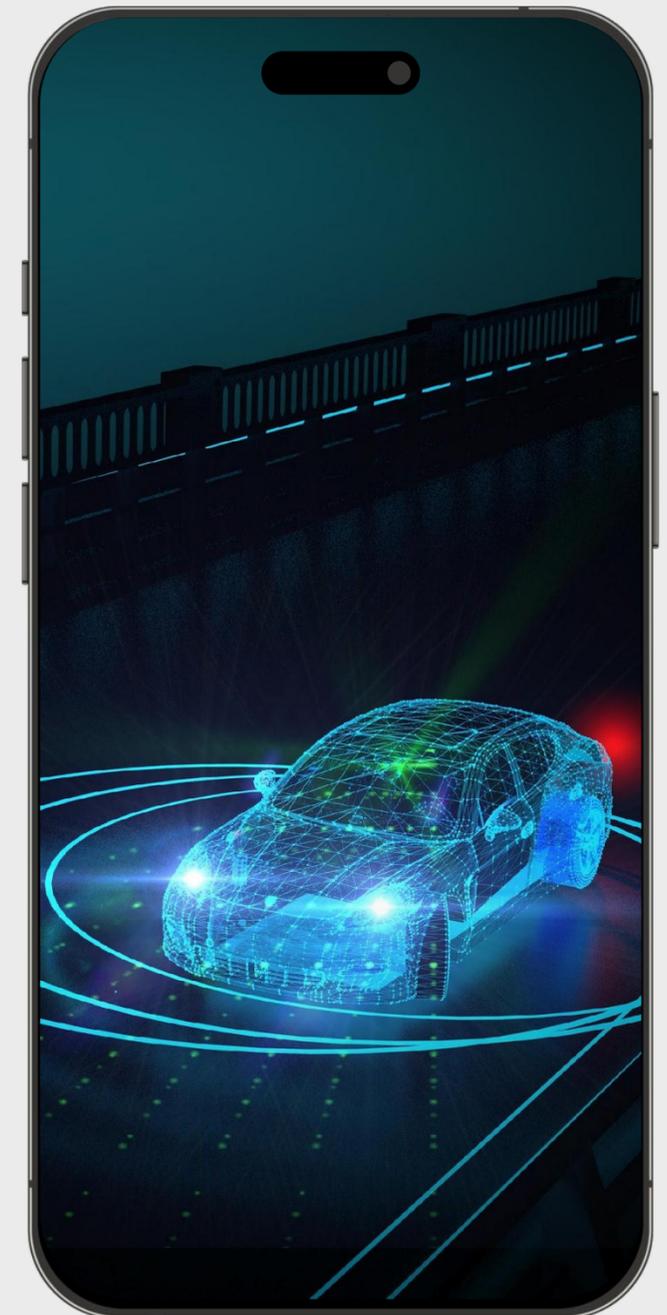
Data Flow for Fleet Ops

- **Vehicle Telematics** → OBD-II/GPS → Edge Gateway.
- **Driver Behavior Data** → ADAS Cameras → Fog Node (AI Processing).
- **Delivery Proof** → Driver App → Cloud (Database + Analytics).

Features & Capabilities

Sensor and Device Integrations

- **SOS Button:** Panic alert system integrated with GPS coordinates for emergency response.
- **Temperature & Humidity Sensors:** Real-time monitoring for cold-chain logistics with threshold alerts.
- **NetraDyne Camera Support:** AI-powered dashcams for ADAS, driver monitoring, and safety analysis.
- **RFID Readers:** Asset tracking and authentication, supporting fixed and handheld configurations.
- **Two-Way Voice Communication Box:** Real-time audio communication between fleet managers and drivers.
- **GPS Trackers:** High-accuracy GNSS modules with A-GPS support for vehicle and asset tracking.
- **Portable Trackers:** Battery-powered, compact units for asset and container-level tracking.
- **Student Trackers:** Wearables or ID tag-based GPS and RFID solutions for school transportation safety.
- **E-Locks & Door Sensors:** Electronic locks with remote control and tamper detection; door open/close alerts.
- **Cell-Based Tracking:** Fall-back positioning via cell tower triangulation during GPS unavailability.
- **OBD Trackers:** Plug-and-play diagnostics with driving behaviour analytics and DTC fault codes.



Platform Architecture & Scalability

Microservice-Oriented Architecture

- **Telemetry Ingestion:** High-speed ingestion (50K+ QPS per pod).
- **Geofencing Engine:** Highly performant (200K QPS across 32 pods).
- **Driver Scoring:** Based on driver behaviour alerts.
- **Routing Engine:** Highly distributed engine for dynamic path.

Communication Protocols

- **MQTT:** For sensor/device messages.
- **Kafka:** Real-time streaming at over 1 million events/day.
- **REST APIs:** Efficient service communication and API endpoints.
- **TCP/IP (TLS 1.3):** Custom binary protocol for low-latency command delivery.

Data Storage

- **MySQL/PostgreSQL:** Tenant, device vehicle and driver management.
- **MongoDB:** Time-series DB with compression & retention.
- **Redis:** High-speed TTL-managed real-time cache.

Data Flow (Mermaid Diagram Representation)

```
A[Edge Devices] -->|MQTT| B(Kafka) B --> C{Stream Processors} C --> D[MongoDB: Telemetry] C --> E[MySQL: Metadata] C --> F[Redis: Real-time Cache]
```

High Availability & Disaster Recovery (DR)

- **Kafka Replication:** Cross-region enabled.
- **MongoDB Sync:** Cross-cluster real-time data replication.
- **Backup Policy:** Snapshot every 15 min; RPO < 60s.



Security & Access Control

Data Security

- AES-256 encryption (at rest)
- Field-level PII masking
- TLS 1.3 with HSM-managed keys
- Role-Based Access Control (RBAC)

Monitoring & Observability

Metrics Stack (Mermaid)

graph TD
A[Prometheus] --> B[Thanos]
B --> C[Grafana Dashboards]

Log Management

- ELK Stack (Elastic, Logstash, Kibana)
- Alerts for health checks, device failures, retries



Analytics Capabilities

- **Driver Behaviour AI:** Drowsiness, harsh braking, distraction detection
- **Utilization Scores:** Predictive cost-per-delivery
- **Route Heatmaps:** AI-mapped delivery hotspots
- **Sensor Drift Detection:** Auto-calibration alerts

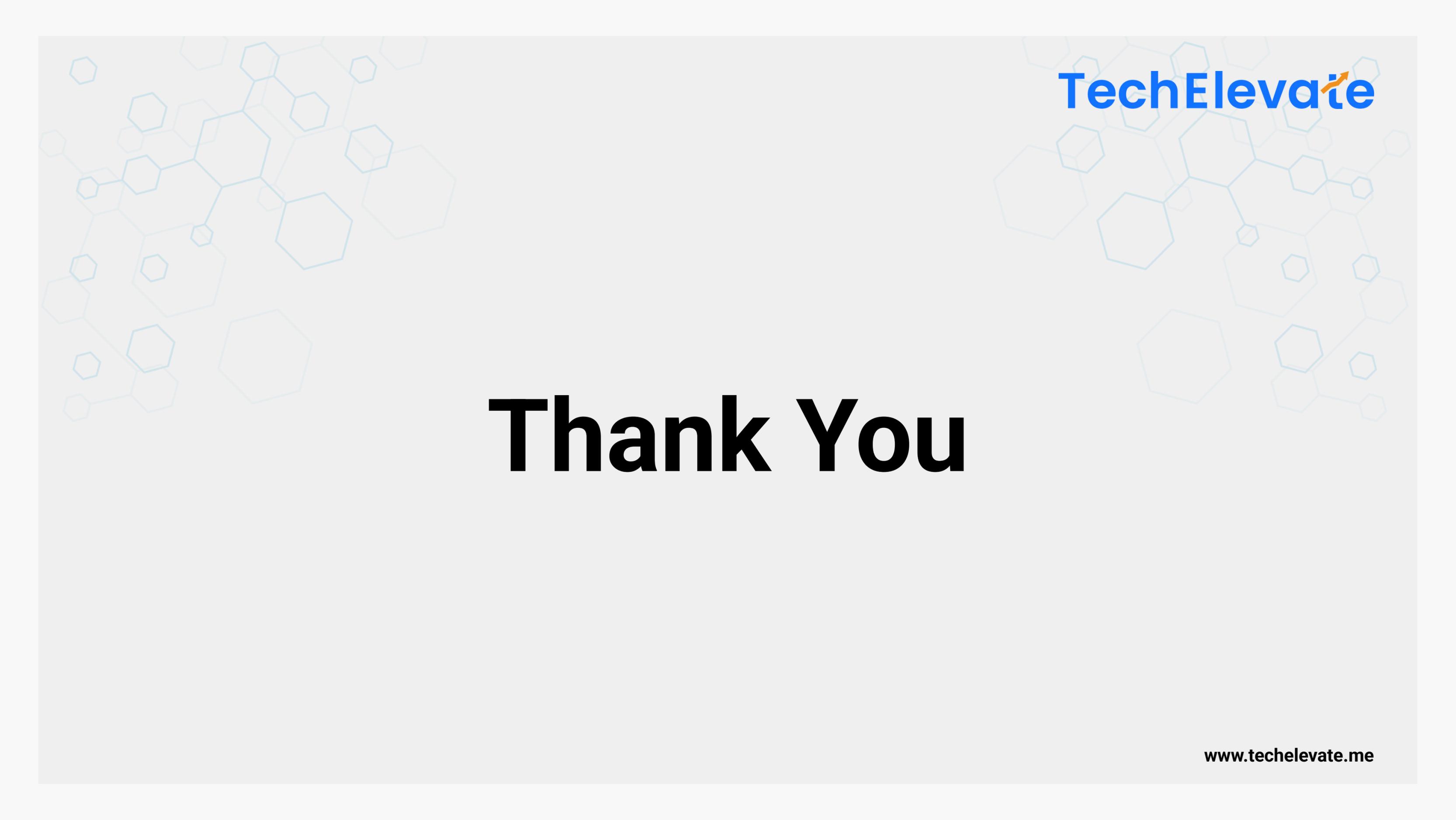
Third-Party Integrations

- **Maps:** Google / HERE
- **Messaging:** Twilio (SMS/Voice)
- **Camera & IoT:** NetraDyne, Bosch, Samsara
- **Cloud & Storage:** AWS S3, Lambda, IoT Core
- **Payments:** Stripe, Razorpay

Enterprise Use Cases

- E-Commerce & Last-Mile
- Pharma Cold Chain
- School Bus GPS Tracking
- Mining/Construction Equipment
- Grocery Hyperlocal Delivery
- Emergency Medical Services (EMS)





TechElevate 

Thank You

www.techelevate.me