

# THROTTLEMATE – Ride Connected. Ride Safe.

## Problem Statement / Motivation

Solo motorbike riders often face accidents or emergencies without timely support. There is no system for group-based safety or real-time ride monitoring, leaving riders vulnerable on the road.

## Proposed Solution / Idea Overview

THROTTLEMATE is a mobile application that connects riders heading to the same destination into a secure group, enabling live location sharing, emergency triggers, fatigue alerts, weather updates, and smart mapping—creating a safer and more connected riding experience.

## Key Features / Functionalities

- Group-based live tracking with privacy controls
- Emergency alert via shake detection or hard fall
- Fatigue alerts after 3 hours of continuous riding
- Road hazard, accident zone, and weather notifications
- Completion SMS to friends or family once ride ends

## Technology Stack

The app is developed using Flutter for cross-platform support and uses Firebase for backend services like real-time database, authentication, and cloud messaging. APIs such as Google Maps, OpenWeather, and accident datasets are integrated.

## Impact / Target Users

THROTTLEMATE targets India's growing community of 20+ million touring riders and aims to reduce solo accident fatalities through timely alerts and social safety features.

## Conclusion

THROTTLEMATE is designed to become the ultimate ride companion—connecting riders, enhancing road safety, and saving lives.