

# DTL IDEAS

**Wearable Device:**  
Use smartwatches to monitor the rider's vital signs and detect crashes.

**Rider's Emergency Alerts:**  
Automatically send emergency alerts to designated contacts and local emergency services upon accident detection.

**Wheel Flare Integration:**  
Place the sensor within the wheel hub to monitor wheel rotation & tire angles.

**Camera Mount:**  
Install a GoPro on the bike to capture footage before and after an accident for better evidence.

**Data Sharing with Emergency Services:**  
Share real-time data with local emergency services to facilitate quicker response times.

**Vibration Detection:**  
Implement vibration sensors to detect emergency braking or loss of control, triggering an alert.

**Cloud-Based Analysis:**  
Use cloud-based platforms to analyze bike data & detect patterns that may predict accidents.

**Plate Mounting:**  
Attach sensor to license plate to detect impact and tilt.

**Vital Signs:**  
Use sensors that monitor vital signs.

**Tail Section Sensor Mounting:**  
Attach a sensor on the tail of the bike to detect rear-end hits.

**Helmet Integration:**  
Embed the sensor in riders' helmets to detect head movements & falls.

**Seat Belt:**  
Install an easily attachable sensor on the bike or wearable device that riders can press to send an immediate emergency alert.

**Engine Bay Placement:**  
Position the sensor in the engine bay for unbraked detection.

**Footpeg Mounting:**  
Install the sensor near the footpeg to monitor foot position & rider balance.

**Emergency Beacon:**  
Equip bikes with an emergency beacon that can be activated to help emergency services.

**Frame Mounting:**  
Secure sensor to main frame rail that only falls can be detected.

**Integration of Gyroscopes with ECU:**  
Use as a warning for bike tilt.

**Smart Helmet:**  
Integrate sensors & communication technology into helmets to detect tilts & alert emergency services.

**Under Seat Placement:**  
Place the sensor under the seat to protect it from physical damage.

**Handlebar Integration:**  
Install gyroscope sensors on handlebars such that it'll detect vehicle falls.

**Mobile Device Integration:**  
Use a mobile device with built-in gyroscope sensor & with IoT module.

**Battery Efficiency & Cost-Effectiveness:**

**Mobile App Integration:**  
Develop a mobile app that offers riders real-time sensor data, fall detection & emergency notifications.

**Tracking:**  
Use GPS to monitor rider's location & movement patterns. The app can also detect if the rider has stopped or fallen.

**Wheel Hub Integration:**  
Place the sensor within the wheel hub to monitor wheel rotation & tire angles.

# Responses

