

# RIDER TELEMETRY SYSTEM OUTPUT REPORT

## System Boot:

- MPU6050 connected
  - GPS initialized
  - BLE advertising started
  - Calibration completed successfully
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## Sample Sensor Data (Live Snapshot)

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Speed: 36.8 km/h

Acceleration (Forward): -0.12 m/s<sup>2</sup>

Acceleration (Lateral): 0.34 m/s<sup>2</sup>

Gyroscope (deg/s): X=0.5, Y=1.2, Z=0.9

Lean Angle: 7.5°

Deceleration: 0.12 m/s<sup>2</sup>

Latitude: 12.9716° N

Longitude: 77.5946° E

GPS Satellites: 8

Ride State: MOTORCYCLE

BLE Connection: ACTIVE (10 Hz data updates)

Harsh Braking: NO

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## System Status Summary

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- All sensors initialized successfully.
- Data transmission via BLE confirmed.
- GPS lock stable with 8 satellites.
- MPU6050 readings consistent and calibrated.

- Rider classified as 'MOTORCYCLE' state.
  - No communication or sensor faults detected.
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End of Report

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