

## EMPOWER YOUR PERFORMANCE WITH REAL-TIME MUSCLE FATIGUE DETECTION – PUSH FURTHER, RECOVER SMARTER

The onset of complete muscle failure (of specific muscle groups) is detected in real-time using a high-resolution inertial monitoring unit (IMU) to analyze dynamic muscle contractions and oscillations. This system is ideal for applications in sports, rehabilitation, and health monitoring.

## **Key Features**

- **Real-Time Monitoring** detects high-frequency oscillations (HFOs) indicating muscle fatigue during repetitive movements
- **IMU-Based Detection** utilizes sensors measuring movement with a high-resolution sampling rate for high sensitivity
- Cloud Connectivity may enable remote data storage and analysis via Wi-Fi or Bluetooth
- **Mobile App Integration** can provide easy-to-read visualizations and performance tracking through a mobile app
- Fatigue Notification alerts users of fatigue onset to prevent injury and optimize training

This technology revolutionizes how muscle fatigue is tracked, providing insights for athletes, medical professionals, and patients alike.

