

AI Event 2025

MATLAB HACKATHON

FITNESS TRACKER

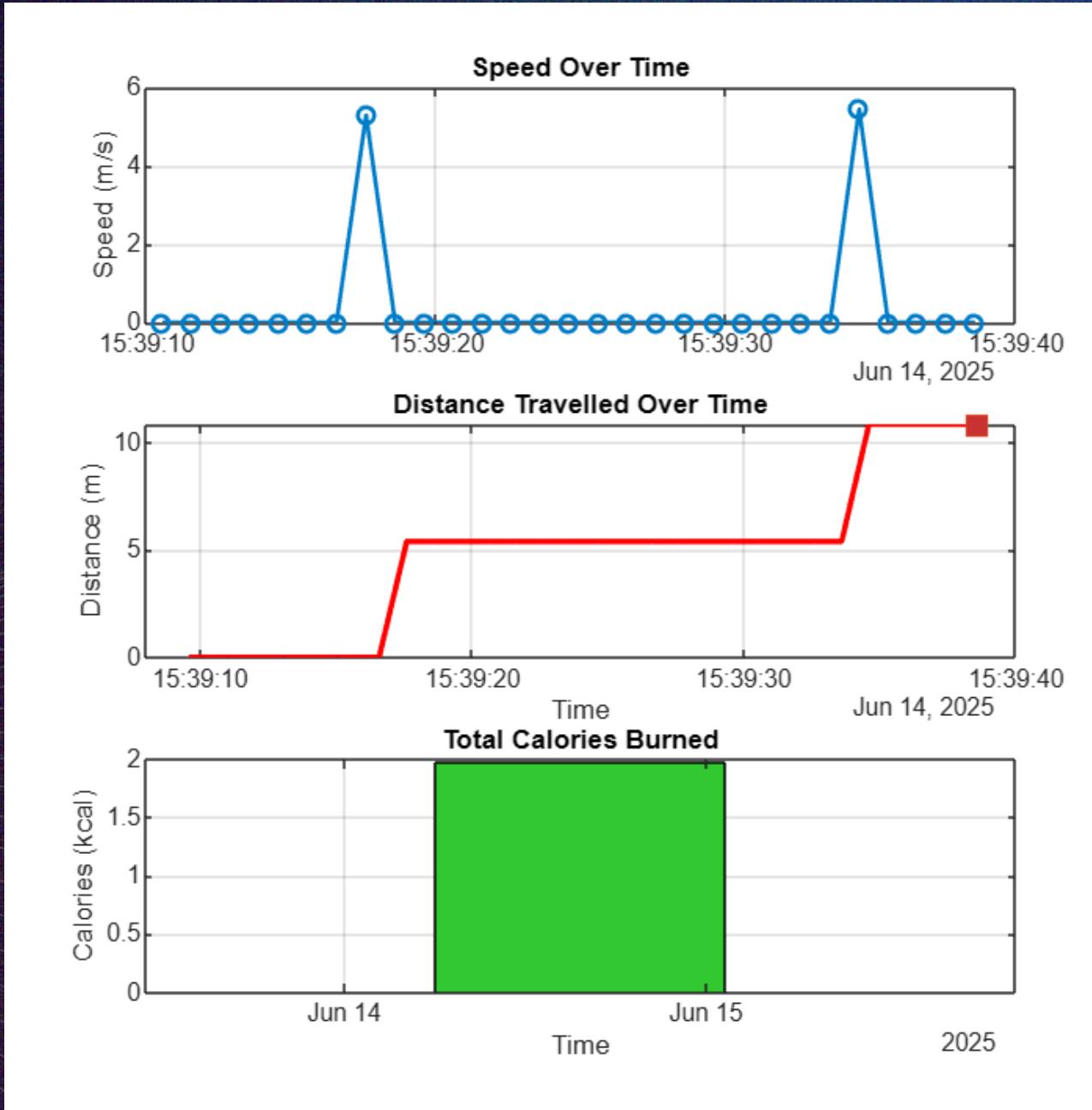
Presented by

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TRACKING

- CALORIES
- DISTANCE

CALORIES BURNED & DISTANCE TRAVELED



- **Distance and Speed:** The Haversine formula is accurate for short distances but may introduce errors over long periods due to GPS drift or signal loss. Accuracy is typically 90-95% with good GPS conditions.
- **Activity Classification:** Relies on average speed and user input, which can be inaccurate if speed varies significantly or if the user misclassifies the activity (e.g., 75-85% accuracy).
- **Calories:** MET values are approximate and depend on user weight and time, achieving 85-90% accuracy but lacking precision without heart rate or intensity data.

**THANK
YOU**