## **ISS Tracker Hardware DIY Guide**

## **Materials Needed**

- Arduino Uno or Nano
- GPS Module (NEO-6M)
- OLED Display (0.96" I2C)
- RTC Module (DS3231)
- Jumper Wires
- Breadboard
- Buzzer/LED (optional)
- ESP8266 (for live TLE data)

## **Instructions**

- 1. Connect GPS, OLED, RTC modules to Arduino as per wiring diagram.
- 2. Upload code to track ISS position.
- 3. Calculate user vs ISS distance; trigger alert if <500 km.
- 4. Optional: Use Wi-Fi to fetch real-time orbital data.