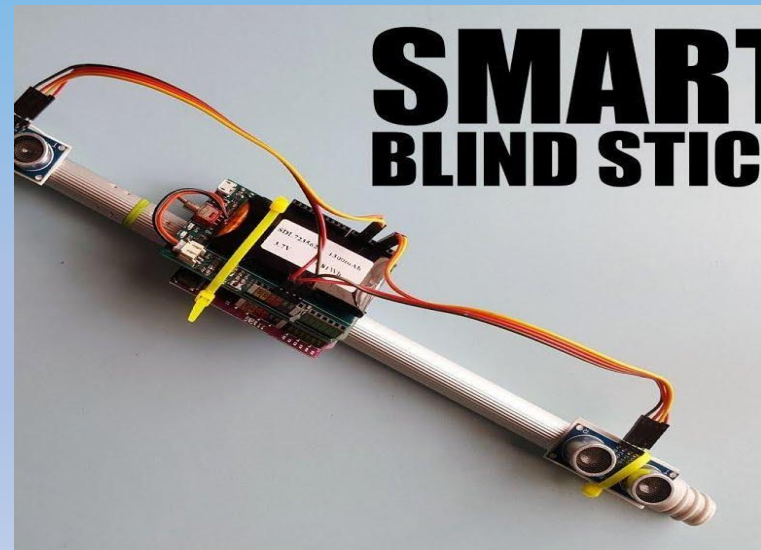


AI Working Models for Class 9

Good & Unique AI Integrated Projects with Resources

AI Smart Blind Stick

- Subjects Integrated: AI + Science + Social Welfare
- Resources Required: Arduino UNO, Ultrasonic Sensor, Buzzer, Battery, PVC Pipe
- Learning Platforms: Arduino Official, Tinkercad, Hackster.io
- Can be presented as working model in exhibitions and ATL labs.



AI Smart Energy Saving Classroom

- Subjects Integrated: AI + Physics + Environmental Science
- Resources Required: PIR Sensor, LEDs, DC Fan, Arduino, Cardboard
- Learning Platforms: Tinkercad, Arduino Project Hub
- Can be presented as working model in exhibitions and ATL labs.

AI Flood Warning System

- Subjects Integrated: AI + Geography + Disaster Management
- Resources Required: Water Sensor, Buzzer, LEDs, Arduino
- Learning Platforms: Instructables, Tinkercad
- Can be presented as working model in exhibitions and ATL labs.



AI Smart Medicine Reminder Box

- Subjects Integrated: AI + Biology + Healthcare
- Resources Required: Buzzer, LEDs, Arduino, RTC Module
- Learning Platforms: Arduino Tutorials, YouTube
- Can be presented as working model in exhibitions and ATL labs.

AI Garbage Level Monitoring System

- Subjects Integrated: AI + Environmental Science + Civics
- Resources Required: Ultrasonic Sensor, Arduino, LEDs
- Learning Platforms: Hackster.io, Tinkercad
- Can be presented as working model in exhibitions and ATL labs.



AI Smart Parking System

- Subjects Integrated: AI + Maths + Smart Cities
- Resources Required: IR Sensors, LEDs, Toy Cars, Arduino
- Learning Platforms: Arduino Project Hub
- Can be presented as working model in exhibitions and ATL labs.

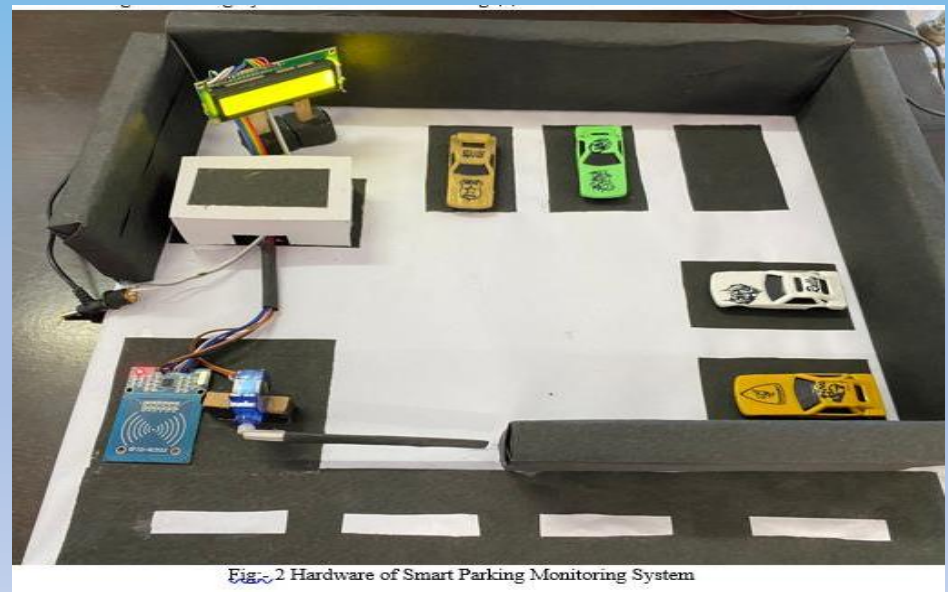


Fig. 2 Hardware of Smart Parking Monitoring System

AI Railway Track Crack Detection

- Subjects Integrated: AI + Physics + Transportation
- Resources Required: Toy Train, Sensors, LEDs, Arduino
- Learning Platforms: Instructables, STEMROBO
- Can be presented as working model in exhibitions and ATL labs.



AI Smart Water Leakage Detector

- Subjects Integrated: AI + Physics + Environment
- Resources Required: Water Sensor, Pipes, Arduino, Buzzer
- Learning Platforms: Arduino Official
- Can be presented as working model in exhibitions and ATL labs.

AI Smart Street Light System

- Subjects Integrated: AI + Physics + Environmental Science
- Resources Required: LDR Sensor, LEDs, Arduino
- Learning Platforms: Tinkercad, Arduino Tutorials
- Can be presented as working model in exhibitions and ATL labs.

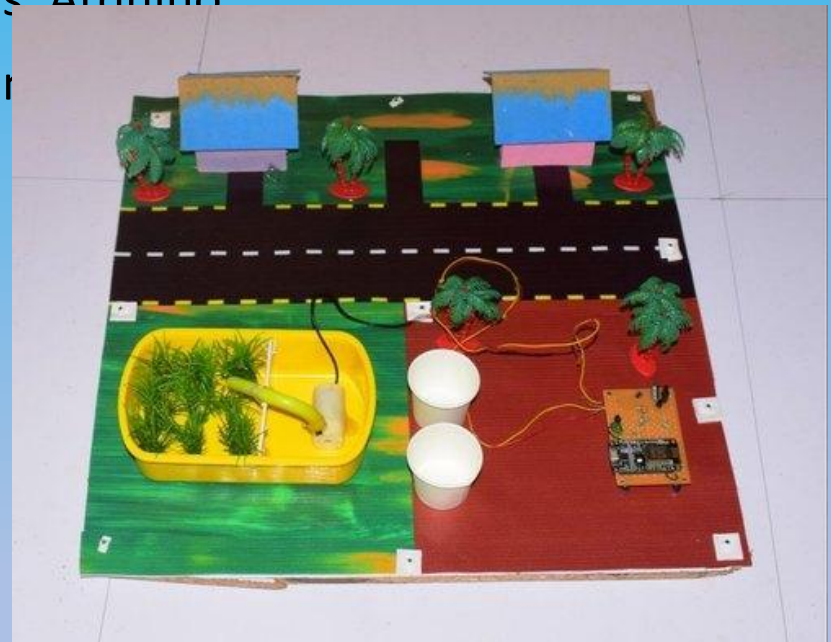


AI Disaster Management System

- Working Features-Water-level warning, Emergency alarm, Safe-zone indication
- Resources Required: LDR Sensor, LEDs, Arduino
- Can be presented as working model in exhibitions and ATL labs.

AI Water Conservation System

- Working Features-Leakage detection, Automatic motor control, Water level monitoring
- Resources Required: LDR Sensor, LEDs, Arduino
- Can be presented as working model in



AI Smart Voting System

- Working Features- Face/fingerprint-based voting concept, Automatic vote counting, Result display
- Resources Required: LDR Sensor, LEDs, Arduino
- Can be presented as working model in exhibitions and ATL labs.

AI Pollution Monitoring System

- Working Features- Pollution level display, Smoke detection, Alert system
- Resources Required: LDR Sensor, LEDs, Arduino
- Can be presented as working model in exhibitions and ATL labs.

AI Smart Farming & Crop Prediction

- Working Features- Soil moisture detection, Rain prediction concept, Crop health monitoring
- Resources Required: LDR Sensor, LEDs, Arduino
- Can be presented as working model in exhibitions and ATL labs.