TOP STUDENT PROJECTS

Best innovations from VTU, Kalaburagi

PROJECT TITLE

AUTOMATED WEATHER SENSING UMBRELLA

Team 29

- MOHD UMAR
- NAGARATNA
- MOHD AFFAN
- REVANASIDDHA
- MEGHANA
- MOHAMMED HUSSAIN



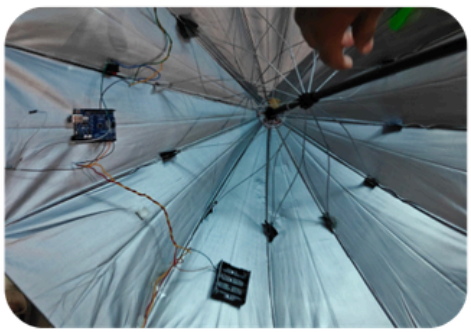
PROBLEM STATEMENT

Roadside vegetable vendors often face challenges in protecting their produce from sudden climate changes such as heavy rain, extreme heat, and humidity due to the lack of permanent infrastructure. These conditions lead to faster spoilage, reduced freshness, food wastage, and financial losses for vendors.
Limited budget, lack of proper storage facilities, and dependency on open roadside setups make it difficult for vendors to maintain vegetable quality throughout the day.

SOLUTION

A Smart Automated Weather-Sensing Umbrella is proposed to protect roadside vegetable vendors and their produce from sudden climate changes such as rain, extreme heat, and humidity. The system uses weather sensors to detect changing weather conditions and automatically responds to protect vegetables.
The umbrella is powered by solar energy, making it suitable for roadside vendors with limited access to electricity. It includes cooling fans for hot weather, a transparent protective cover for heavy rain, and an automatic lifting platform to protect vegetables from roadside water flow.





SCAN ME

Technology stacks:

- Arduino Uno
- Sensors
- Solar Panels
- Arduino IDE