

# EXPLORATION PROJECT

EXPLORING OUR SURROUNDING



## DRYSHIELD

MENTOR - Prof. Minal bhise

### TEAM MEMBER

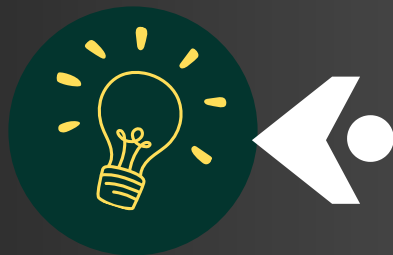
Pranav Bavadiya - 202301458

Ansh Badresiya - 202301477

Dushyant Varshney - 202301278

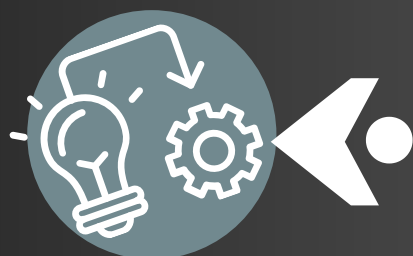
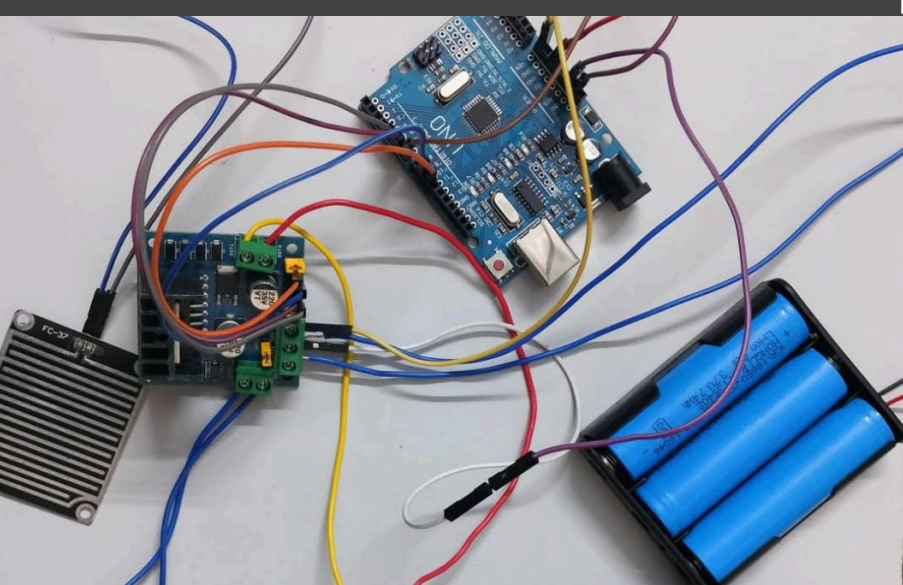
Manthan Gajera - 202301488

Kavish Patel - 202301074



### INSPIRATION

- Inspired by the common problem of clothes getting wet due to sudden rain.
- Aimed to create an automated, hassle-free solution for drying clothes.
- Helps families save time and effort by eliminating manual intervention.
- Provides a simple yet effective approach to weather protection.

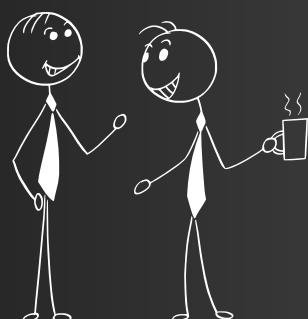


### IMPLEMENTATION

- Developed Dry Shield, an automated rain cover system using Arduino and sensors.
- Collected components from the institute and external sources.
- Faced issues with motor synchronization and sensor accuracy.
- Upgraded to an FC-37 rain sensor and refined motor control for better performance.

### OUR THOUGHTS ON THE PROJECT

- Gained hands-on experience in Arduino, circuits, and problem-solving.
- Faced challenges with sensor selection and motor coordination.
- Overcame obstacles through testing, research, and teamwork.
- Inspired to explore more innovative and practical solutions.



### FUTURE SCOPE

- Improve durability by using a stronger plastic cover.
- Integrate with a mobile app for remote monitoring and control.
- Implement a solar-powered system for energy efficiency.
- Expand use for agriculture, vehicles, and outdoor furniture protection.