

# Rain Detection and Clothes Protection using Arduino

Mr. Amit M. Janrao<sup>1</sup>, Mr. Vishal B. Chavan<sup>2</sup>, Mr. Samarth D. Swami<sup>3</sup> and Prof. Sayyed F.S.<sup>4</sup>

Students, Department of Computer Engineering<sup>1-3</sup>

Professor, Department of Computer Engineering<sup>4</sup>

Vishweshwarayya Abhyantriki Padvika Mahavidyalaya, Almala, India

**Abstract:** *This paper presents an automatic rain detection and clothes protection system utilizing an Arduino microcontroller, a rain sensor, and a servo motor. The system is designed to safeguard clothes hung outside by detecting rainfall and automatically moving them to a sheltered location. When the rain sensor detects precipitation, it signals the Arduino, which then triggers the servo motor to reposition the clothes. Once the rain stops, the system reverses the process, restoring the clothes to their original position for drying. This automated approach ensures convenience, reduces manual intervention, and can be integrated into smart home systems*

**Keywords:** Automation, Arduino UNO, Rain Sensor, Servo Motor, Clothes Protection, Smart Home System