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(57) Abstract :
 GOVARDHANA: AUTOMATIC RAIN SHELTER SYSTEM FOR ENHANCED SEED PROTECTION AND DRYING IN AGRICULTURAL PRACTICES
 ABSTRACT The "Govardhana" automatic rain shelter system addresses the challenges faced by farmers during the rainy season, particularly the risk of agricultural seeds becoming wet and reducing crop yields. This innovative solution features an automatic rain detection module that senses rainfall and triggers the deployment of a protective shelter structure over the seeds, ensuring they remain dry for optimal sowing conditions. The system includes a remote monitoring capability, allowing farmers to oversee the shelter's status through a user-friendly mobile application. Additionally, the shelter is designed with lightweight, weather-resistant materials and incorporates a solar power unit for enhanced sustainability. By automating the protection of seeds from adverse weather, "Govardhana" significantly improves seed germination rates and overall agricultural productivity, empowering farmers to safeguard their harvests and maintain the quality of their seeds regardless of weather conditions. This solution ultimately contributes to a more resilient agricultural sector and promotes sustainable farming practices.

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