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Smart Bird Feeder

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Abstract: The Smart Bird Feeder is an innovative IoT-based system designed to monitor and assist bird feeding activities while promoting wildlife observation and conservation. This project integrates modern technologies such as sensors, microcontrollers, cameras, and wireless communication to automate bird feeding and data collection. The system identifies bird species using image recognition powered by machine learning algorithms and records visitation data, including time, frequency, and species type. It automatically dispenses food when birds are detected, minimizing waste and ensuring food availability. Additionally, the feeder connects to a mobile or web application, allowing users to monitor activity in real-time, receive notifications, and access data logs.

Keywords: Microcontroller ATMEGA16A, dht Sensors, LCD

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