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Automatic Cattle Feeder Using IOT

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Abstract: *In modern agriculture, the efficient and timely feeding of livestock is crucial for optimal growth and production. Traditional feeding methods often lead to inconsistencies and inefficiencies, affecting the health and productivity of cattle. This project aims to develop an automatic cattle feeder using Internet of Things (IoT) technology to ensure precise, scheduled, and monitored feeding. The proposed system integrates stepper motors, a real-time clock (RTC), and a network of IoT devices to automate the feeding process. The ESP8266 controls the servo motors to dispense a predefined amount of feed at scheduled intervals. IoT connectivity is achieved using a Wi-Fi module (such as the ESP8266) connected to the Arduino. Farmers can set feeding schedules, adjust feed quantities, and monitor the system's status in real-time from anywhere with internet access. Additionally, the system can send notifications and alerts regarding feeding times, feed levels, and any operational issues..*

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