PRESTIGE INSTITUTE OF ENGINEERING MANAGEMENT AND RESEARCH

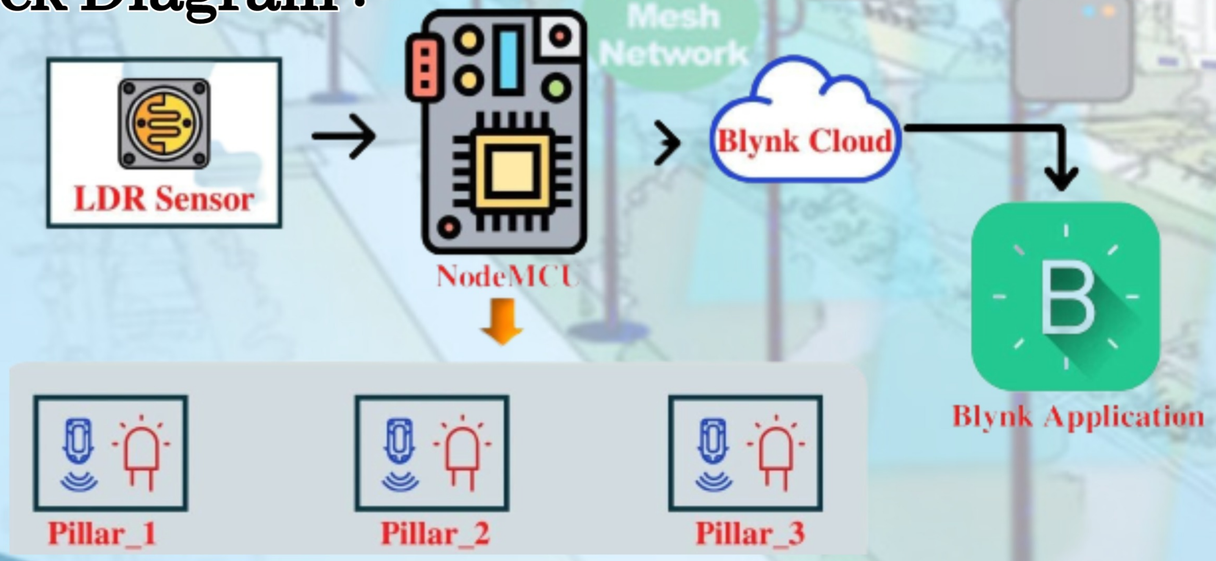
ELECTRONICS AND COMMUNICATION

STREET LIGHT MONITORING SYSTEM USING IOT

Abstract :-

In Automatic Street Light Controlling and Monitoring, we are using NodeMCU ESP8266 a Wi-Fi-enabled microcontroller that is used to connect the devices to the Internet of Things IoT. It is connected to the sensors and devices which send information to the monitoring center. For this, we use the Blynk app which control and monitors the IOT. It is a real-time monitoring system that controls the intensity, and power consumption of the automatic street light.

Block Diagram :-



Result :-

1. Successful implementation of an IoT-enabled street light monitoring system that collects data on energy usage, brightness, and ambient light levels.
2. Development of software tools to process and analyze the data collected from the street lights, providing insights that can be used for predictive maintenance, energy optimization, and cost reduction.
3. The system can be controlled remotely using a mobile app or website to adjust the brightness or turn the lights on/off.
4. Reports can be generated to show how well the system is performing.
5. Smart Street Light system, providing insights that can be used for data-driven decision-making and improving public safety.

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