TOP STUDENT PROJECTS

Best innovations from UBDTCE, Davangere

PROJECT TITLE

PET HEALTH MONITORING COLLAR



Team 16

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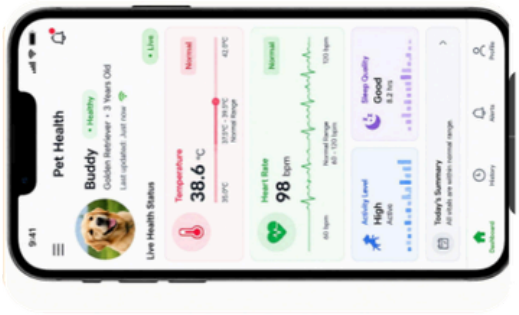
PROBLEM STATEMENT

Pets cannot communicate their health problems directly to their owners. As a result, internal health issues such as a fever, abnormal heart rate, stress, and illness often go unnoticed until the condition becomes severe. There is a need for a smart and wearable health monitoring system that can continuously track pets' vital health.

SOLUTION

The proposed solution is a smart pet health monitoring collar that continuously tracks the pet's vital health parameters using embedded sensors. The collar collects real-time data such as body temperature, heart rate, respiratory rate, activity level, and location. This information is processed by a microcontroller and transmitted to a mobile application through Bluetooth or Wi-Fi. The mobile application displays the pet's health status and sends instant alerts to the owner whenever abnormal readings are detected. The system can also store historical health data, helping veterinarians analyse trends and diagnose potential health issues more effectively.





SCAN ME

Technology stacks:

- ESP32MICROCONTROLLER
- PYTHON
- DS18820 TEMPERATURE SENSOR
- ARDUINO IDE
- RECHARGEABLE BATTERY
- Wi-Fi