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(57) Abstract :
A system and method for machine learning-based animal health monitoring and prediction in IoT-enabled livestock farms The system includes sensors for collecting data on animal behavior, environmental conditions, and other relevant factors, a wireless communication module for transmitting data to a central server, and a central server for processing data using machine learning algorithms. The system uses historical data and trends to predict future health issues and generate alerts and notifications to farmers and veterinarians upon detection of any health issues. The system improves animal welfare by ensuring that sick animals receive timely medical attention and reduces the economic impact of disease outbreaks on livestock farms. The present invention discloses a system and method for machine learning-based animal health monitoring and prediction in IoT-enabled livestock farms. The system comprises a plurality of IoT sensors deployed in the livestock farm to collect data on various animal health parameters, such as body temperature, heart rate, respiratory rate, rumination activity, and behavior. The collected data is transmitted to a central server via a wireless communication network. The central server stores the data in a database and performs machine learning analysis on the data to detect anomalies, identify sick animals, and predict their health status in advance. The system also generates alerts to farmers when sick animals are detected or when the health status of an animal is predicted to deteriorate.

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