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Abstract:

ABSTRACT IOT BASED LUNG CANCER DETECTION USING DEEP LEARNING TECHNIQUE Lung cancer is the leading cause of cancer-related deaths worldwide. Early detection and diagnosis of lung cancer is critical to increasing the chances of survival. However, traditional methods of lung cancer detection, such as CT scans and X-rays, are time-consuming, costly, and require trained radiologists. Recent advancements in the Internet of Things (IoT) and deep learning techniques have shown great potential for improving the accuracy and efficiency of lung cancer detection. In this study, we propose an IoT-based solution for lung cancer detection using deep learning techniques. The system consists of a smart wearable device, a cloud platform, and a deep learning model. The wearable device, equipped with sensors and a camera, collects physiological data such as heart rate, blood oxygen level, and breathing pattern from the user. It also captures images of the user's chest. The collected data is then transmitted to the cloud platform, where it is stored and pre-processed. The deep learning techniques such as convolutional neural networks (CNN), recurrent neural networks (RNN), and long short-term memory (LSTM) networks for accurate detection. The proposed system provides several advantages over traditional methods of lung cancer detection. Firstly, it allows for continuous monitoring of the user's respiratory system, enabling early detection of abnormalities. Secondly, it reduces the need for frequent doctor visits and expensive diagnostic tests, making it more accessible and cost-effective. Moreover, with the help of IoT, the system can be easily integrated into existing healthcare infrastructure, enabling remote monitoring and real-time diagnosis. In conclusion, our proposed IoT-based lung cancer detection system using deep learning techniques has the potential to significantly improve the accuracy and efficiency of lung cancer detection. It has the potential to save lives by enabling early detection and timely treatment of lung canc

Complete Specification

Description:FORM 2 THE PATENTS ACT,1970 (39 of 1970) & THE PATENT RULES, 2003 Complete Specification (See section10 and rule13) 1. Title of the Invention: IOT BASED LUNG CANCER DETECTION USING DEEP LEARNING TECHNIQUE 2. Applicants Name Nationality Address Mr. NAVDEEP KHAR Indian BTECH, MTECH, ELECTRONICS AND TELECOMMUNICATION ENGINEERING, SHRI SHANKARACHARYA INSTITUTE OF PROFESSIONAL MANAGEMENT AND TECHNOLOGY RAIPUR, CHHATTISGARH-492001, INDIA Ms. SUDHA Indian ASSISTANT PROFESSOR, CSE, DELHI TECHNICAL CAMPUS, GREATER NOIDA, UTTAR PRADESH,- 201306 Ms. RACHANA SHARMA Indian ASSISTANT PROFESSOR CSE DEI HI TECHNICAL CAMPUS GREATER NOIDA LITTAR PRADESH - 201306

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