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Patent Search

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Abstract:

EARLY DETECTION OF BREAST CANCER: A TECHNOLOGICAL APPROACH WITH DEEP LEARNING, IOT, AND 5G The method for the development of the unchecked cell growth is the hallmark of cancer, a disease that can be fatal. One of the most highly infiltrative neoplasms, breast cancer (BC) is the leading cause of death for women owing to complications from the disease. As a result, the need for early diagnosis and prognosis has become essential in order to improve long-term survival rates and reduce death. Radiologists are using emerging artificial intelligence (AI) technology to help them analyze medical pictures, which is improving the prognosis of cancer patients. Although remote e-health has made some progress in improving the issue, there are still two major technical restrictions that limit its possibilities. First, it is challenging to ensure the real-time transmission of pictures related to breast cancer pathology between distant locations and urban regions due to network capacity constraints. A number of computer-aided detection and screening techniques have been developed for the successful diagnosis and treatment of breast cancer. The medical and health sector relies heavily on image data. Deep learning algorithms are used to extract features from picture collections more quickly and correctly than other approaches currently in use. FIG.1

Complete Specification

Description:EARLY DETECTION OF BREAST CANCER: A TECHNOLOGICAL APPROACH WITH DEEP LEARNING, IOT, AND 5G

Technical Field

[0001] The embodiments herein generally relate to a method for the early detection of breast cancer: a technological approach with deep learning, IoT, and 5G.

Description of the Related Art

[0002] Different definitions exist to clarify the precise mechanism of machine learning. It is a subset of artificial intelligence (AI) that may be defined as a collection of algorithms that instruct computers on how to use statistical and probabilistic models to find patterns in enormous, complicated data sets. IBM claims that machine learning (ML) is predicated on reproducing human learning on computers using a variety of algorithms and enormous datasets. Another accurate and efficient technique for detecting breast cancer is a biopsy. It entails removing tissue from a breast region that is impacted. A pathologist then looks at this sample under a microscope to identify and categorize the tumor.

[0003] These figures make it very evident that BC is a significant public health concern that requires attention in order to stop more deaths. Nonetheless, these worries have spurred improvements in the diagnosis of BC using contemporary technologies like deep learning and machine learning (ML). Different therapy is needed for different forms of BC. Early detection is the key to lowering the death rates from breast cancer, even though other cutting-edge treatment options like immunotherapy or targeted therapy are also available. Surgery, radiation, and chemotherapy are some of the most often utilized treatments in the treatment of individuals with breast cancer. The leading cause of the rising death rate among women between the ages of 20 and 59 is breast cancer.

[0004] Therefore, a decreased female death rate might result from early identification of breast cancer. Mammography and biopsy are the two major ways that breast

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