

Home (<http://ipindia.nic.in/index.htm>) About Us (<http://ipindia.nic.in/about-us.htm>) Who's Who (<http://ipindia.nic.in/whos-who-page.htm>)
 Policy & Programs (<http://ipindia.nic.in/policy-pages.htm>) Achievements (<http://ipindia.nic.in/achievements-page.htm>)
 RTI (<http://ipindia.nic.in/right-to-information.htm>) Feedback (<https://ipindiaonline.gov.in/feedback>) Sitemap (<http://ipindia.nic.in/itemap.htm>)
 Contact Us (<http://ipindia.nic.in/contact-us.htm>) Help Line (<http://ipindia.nic.in/helpline-page.htm>)

[Skip to Main Content](#)

[\(http://ipindia.nic.in/index.htm\)](http://ipindia.nic.in/index.htm)

<http://ipindia.nic.in/inc>

Patent Search

Invention Title	AI-POWERED HEALTHCARE DIAGNOSTIC ASSISTANT FOR EARLY DISEASE DETECTION AND TREATMENT PLANNING
Publication Number	25/2024
Publication Date	21/06/2024
Publication Type	INA
Application Number	202441046391
Application Filing Date	15/06/2024
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	BIO-MEDICAL ENGINEERING
Classification (IPC)	G16H0010600000, G16H0050200000, G16H0050700000, G06N0003040000, G16H0050300000

Inventor

Name	Address	Country	Nat
Dr. D. Kamalakkannan	Professor, Gnanamani College of Engineering, NH 7, Pachal, Namakkal, Pin: 637018, Tamilnadu, India.	India	Indi
Dr. Bakki Sheshu Kumar	Associate Professor, Prathima Institute of Medical Sciences, Nagunur, Karimnagar, Pin: 505417, Telangana, India.	India	Indi
Mrs. Rajeshwari	Assistant Professor, Dr. Ambedkar Institute of Technology, Bangalore, Pin: 560056, Karnataka, India.	India	Indi
Dr. P. Felcy Judith	Professor, T John College, 88/1Gottigere, B.G. Road, Bangalore, Pin:560083, Karnataka, India.	India	Indi
Mr. Sumit Singha	Assistant Professor, Department of Computer Application, Asansol Engineering College, Asansol, Pin: 713305, West Bengal, India.	India	Indi
Dr. S. Pratap Singh	Associate Professor, Department of CSE, Marri Laxman Reddy Institute of Technology and Management, Dundigal, Hyderabad, Domara Pocham Pally, Pin:500043, Telangana, India.	India	Indi
Dr. G Chandra Sekhar	Assistant Professor, Computer Science and Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Pin: 500043, Telangana, India.	India	Indi
Ms. M. Revathi	Assistant Professor, Department of Computer Science (Artificial Intelligence and Data Science), Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore, Pin: 641049, Tamilnadu, India.	India	Indi
Dr. Belsam Jeba Ananth. M	Associate Professor, Department of Mechatronics Engineering, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu, Pin: 603203, Tamil Nadu, India.	India	Indi
Dr. Naveen Kumar Mattipalli	Director, Stay Connect, NTR, Pin:520004, Andhra Pradesh, India.	India	Indi
Dr. Hari Kumar Pallathadka	Director and Professor, Manipur International University, Ghari, Imphal, Imphal West, Pin: 795140, Manipur, India.	India	Indi

Applicant

Name	Address	Country	Nat
Dr. D. Kamalakkannan	Professor, Gnanamani College of Engineering, NH 7, Pachal, Namakkal, Pin: 637018, Tamilnadu, India.	India	Indi
Dr. Bakki Sheshu Kumar	Associate Professor, Prathima Institute of Medical Sciences, Nagunur, Karimnagar, Pin: 505417, Telangana, India.	India	Indi
Mrs. Rajeshwari	Assistant Professor, Dr. Ambedkar Institute of Technology, Bangalore, Pin: 560056, Karnataka, India.	India	Indi
Dr. P. Felcy Judith	Professor, T John College, 88/1 Gottigere, B.G. Road, Bangalore, Pin: 560083, Karnataka, India.	India	Indi
Mr. Sumit Singha	Assistant Professor, Department of Computer Application, Asansol Engineering College, Asansol, Pin: 713305, West Bengal, India.	India	Indi
Dr. S. Pratap Singh	Associate Professor, Department of CSE, Marri Laxman Reddy Institute of Technology and Management, Dundigal, Hyderabad, Domara Pocham Pally, Pin: 500043, Telangana, India.	India	Indi
Dr. G Chandra Sekhar	Assistant Professor, Computer Science and Engineering, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Pin: 500043, Telangana, India.	India	Indi
Ms. M. Revathi	Assistant Professor, Department of Computer Science (Artificial Intelligence and Data Science), Dr.SNS Rajalakshmi College of Arts and Science, Coimbatore, Pin: 641049, Tamilnadu, India.	India	Indi
Dr. Belsam Jeba Ananth. M	Associate Professor, Department of Mechatronics Engineering, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu, Pin: 603203, Tamil Nadu, India.	India	Indi
Dr. Naveen Kumar Mattipalli	Director, Stay Connect, NTR, Pin: 520004, Andhra Pradesh, India.	India	Indi
Dr. Hari Kumar Pallathadka	Director and Professor, Manipur International University, Ghari, Imphal, Imphal West, Pin: 795140, Manipur, India.	India	Indi

Abstract:

The invention relates to a system and method for an AI-powered healthcare diagnostic assistant that integrates advanced machine learning algorithms with comprehensive patient data from electronic health records, medical imaging, laboratory results, and wearable devices. This system aims to enhance early disease detection by analyzing complex data patterns and correlations that may indicate the presence of diseases at their onset. Key components include a robust data integration module, an AI engine for feature extraction and predictive modeling, and a continuous learning mechanism that updates diagnostic models based on new patient data and outcomes. The assistant provides healthcare providers with timely diagnostic suggestions and personalized treatment recommendations through an intuitive user interface, supporting informed clinical decision making and improving patient outcomes.

Complete Specification

Description: The embodiments of the present invention generally relates to the field of healthcare and medical diagnostics. More specifically, it pertains to an artificial intelligence-powered system designed to assist in the early detection of diseases and the planning of treatment strategies. This invention leverages machine learning algorithms to analyze diverse patient data, providing healthcare professionals with diagnostic suggestions and personalized treatment recommendations, thereby improving patient outcomes and operational efficiency in medical settings.

BACKGROUND OF THE INVENTION

The following description of related art is intended to provide background information pertaining to the field of the disclosure. This section may include certain aspects of the art that may be related to various features of the present disclosure. However, it should be appreciated that this section be used only to enhance the understanding of the reader with respect to the present disclosure, and not as admissions of prior art.

Early detection of diseases is critical for effective treatment and improved patient outcomes. Traditional diagnostic methods, while effective, often rely heavily on the expertise and experience of medical professionals, leading to variability in diagnosis and potential delays in identifying health issues. With the advent of electronic health records (EHR), medical imaging technologies, and other digital health tools, a vast amount of patient data is being generated. However, the sheer volume and complexity of this data can be overwhelming for healthcare providers to analyze and interpret in a timely manner.

Artificial intelligence (AI) and machine learning (ML) technologies have shown great promise in addressing these challenges by providing advanced data analysis capabilities.

[View Application Status](#)


Terms & conditions (<http://ipindia.gov.in/terms-conditions.htm>) Privacy Policy (<http://ipindia.gov.in/privacy-policy.htm>)

Copyright (<http://ipindia.gov.in/copyright.htm>) Hyperlinking Policy (<http://ipindia.gov.in/hyperlinking-policy.htm>)

Accessibility (<http://ipindia.gov.in/accessibility.htm>) Archive (<http://ipindia.gov.in/archive.htm>) Contact Us (<http://ipindia.gov.in/contact-us.htm>)

Help (<http://ipindia.gov.in/help.htm>)

Content Owned, updated and maintained by Intellectual Property India, All Rights Reserved.

Page last updated on: 26/06/2019