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Patent Search

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Inventor

Name	Address	Country
Dr. Gaurav Agrawal	Assistant Professor, Department of Management Studies, Anand Engineering College, Keetham, Agra, Uttar Pradesh, India, Pincode: 282007	India
Mr. Sunil Kumar Suvvari	Senior Consultant, 11211 Lost Maples Trl, Frisco, Texas, U.S. Pin -75035	India
Dr. D. Srinivasa Kumar	Professor, Department of Basic Sciences and Humanities, GMR Institute of Technology, Rajam, Andhra Pradesh, India, Pincode: 532127	India
Mr. M.N.N. Appaji	Assistant Professor, Department of MBA, Adikavi Nannaya University, Tadepalligudem Campus, Tadepalligudem, West Godavari District, Andhra Pradesh, India, Pincode: 534101	India
Dr. Vedala Naga Sailaja	Associate Professor, Department of MBA, KLEF Deemed to be University, Green Fields, Vaddeswaram, Andhra Pradesh, India, Pincode: 522302	India
Mr. B. Siva Sankar	Assistant Professor, Department of IT, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India
Dr. Peddireddi Sivakrishna	Professor, Department of CSE, Sree Rama Engineering College, Tirupati, Andhra Pradesh, India, Pincode: 517507	India

Applicant

Name	Address	Country
Dr. Gaurav Agrawal	Assistant Professor, Department of Management Studies, Anand Engineering College, Keetham, Agra, Uttar Pradesh, India, Pincode: 282007	India
Mr. Sunil Kumar Suvvari	Senior Consultant, 11211 Lost Maples Trl, Frisco, Texas, U.S. Pin -75035	U.S.A.
Dr. D. Srinivasa Kumar	Professor, Department of Basic Sciences and Humanities, GMR Institute of Technology, Rajam, Andhra Pradesh, India, Pincode: 532127	India
Mr. M.N.N. Appaji	Assistant Professor, Department of MBA, Adikavi Nannaya University, Tadepalligudem Campus, Tadepalligudem, West Godavari District, Andhra Pradesh, India, Pincode: 534101	India
Dr. Vedala Naga Sailaja	Associate Professor, Department of MBA, KLEF Deemed to be University, Green Fields, Vaddeswaram, Andhra Pradesh, India, Pincode: 522302	India
Mr. B. Siva Sankar	Assistant Professor, Department of IT, Institute of Aeronautical Engineering, Dundigal, Hyderabad, Telangana, India, Pincode: 500043	India
Dr. Peddireddi Sivakrishna	Professor, Department of CSE, Sree Rama Engineering College, Tirupati, Andhra Pradesh, India, Pincode: 517507	India

Abstract:

The proposed invention integrates advanced artificial intelligence (AI) technologies into healthcare insurance for improved cost management, fraud detection, risk as[sessment] and personalized care. By leveraging AI algorithms, the system analyzes extensive datasets, including patient records and billing information, to identify patterns, pre[dict] costs, and detect anomalies. AI-driven predictive analytics enable proactive interventions, optimizing treatment plans and reducing unnecessary expenses. The inven[tion] automates claims processing, enhances customer service through AI-powered chatbots, and facilitates seamless coordination between stakeholders. Ensuring data p[rivacy] ethical AI use, the invention aims to revolutionize the healthcare insurance landscape, making it more efficient, effective, and patient-centric.

Complete Specification

Description:The proposed invention pertains to the application of artificial intelligence (AI) technologies within the healthcare insurance sector, specifically focusing [on cost] management. This invention lies at the intersection of healthcare informatics, insurance technology (insurtech), and financial analytics. It aims to revolutionize the w[ay] healthcare costs are predicted, managed, and optimized by leveraging advanced AI algorithms and machine learning techniques. The system is designed to analyze [vast] amounts of healthcare data, including patient records, treatment histories, and billing information, to identify cost-saving opportunities and enhance decision-maki[ng] processes. By incorporating predictive analytics, the invention can forecast future healthcare expenses, streamline claims processing, and detect fraudulent activitie[s. This] innovative approach ensures more accurate pricing models, improved risk assessment, and enhanced overall efficiency in the healthcare insurance industry. The in[vention's] ultimate goal is to reduce costs for both insurers and policyholders while maintaining high standards of care and service quality.
Background of the proposed invention:
The rapid advancements in artificial intelligence (AI) and machine learning (ML) technologies have opened new avenues for innovation across various industries, inc[luding] healthcare and insurance. The healthcare industry, in particular, faces significant challenges related to cost management, fraud detection, and efficient resource all[ocation] Traditional methods of managing healthcare costs have proven to be inadequate in addressing the growing complexities of modern healthcare systems. These met[hods] often rely on retrospective analysis and manual processes, which can be time-consuming, error-prone, and inefficient. The integration of AI in healthcare insurance [has the] potential to transform cost management practices, offering more precise, efficient, and proactive solutions.
The proposed invention focuses on leveraging AI to manage and optimize healthcare costs effectively. The core idea is to utilize AI algorithms to analyze extensive d[ata] including patient records, treatment histories, billing information, and other relevant data points. By doing so, the system can identify patterns, trends, and anomali[es]

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