



An IOT Based Smart Patient Health Monitoring System using ESP32

*Manjupriya R, Jayabharathi T, Sowmya A K,
Dharani.P, Nandhini S*

^{1,2,3,4,5} Department of Electrical and Electronics Engineering

^{1,2,3,4,5} Dhirajlal Gandhi College of Technology, Salem, India

Abstract – Human health is the entire state of being physically, socially and mentally effective because a medical condition. We must always be mindful for our health and remain vigilant if we experience any discomfort. To maintain our health, we should exercise frequently. Stress is the main thing to affect human health and create changes in our body conditions by affecting various parameters like temperature, heart beat and pulse rate. In order to check the health a simple module is developed using ESP8266. ESP8266 is used to monitor all the parameters and a system for monitoring attention on mobile devices is developed that may provide periodical online data about a patient's physiological parameter conditions. It is mainly composed of sensors, an information acquisition unit. Code was used to programme the Arduino. The system will monitors, displays and scores the patient's temperature, heart rate, blood pressure and graph knowledge. It also sends these data to the patient's and doctor's mobile device. Sensible Health Observation System will track and record the health status for the web page. The primary goal of this project is to create a rational and trustworthy Internet of Things patient health observation system so that healthcare providers can keep an eye on their patients.

Index Terms— Patient Smart Healthcare Systems, ESP8266, Cloud Computing Methodology, Implementation with IOT, Artificial Intelligence, Patient health monitoring.

Iot Based Smart Monitoring System Jetir

Victor M. Corman



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Emerging Trends in Expert Applications and Security Vijay Singh Rathore, João Manuel R. S. Tavares, Vincenzo Piuri, B. Surendiran, 2023-06-12 The book covers current developments in the field of computer system security using cryptographic algorithms and other security schemes for system as well as cloud The proceedings compile the selected research papers presented at ICE TEAS 2023 Conference held at Jaipur Engineering College and Research Centre Jaipur India during February 17 19 2023 The book focuses on expert applications and artificial intelligence information and application security advanced computing multimedia applications in forensics security and intelligence and advances in web technologies implementation and security issues **ICT Systems and Sustainability** Milan Tuba, Shyam Akashe, Amit Joshi, 2025-01-08 This book proposes new technologies and discusses future solutions for ICT design infrastructures as reflected in high quality papers presented at the 8th International Conference on ICT for Sustainable Development ICT4SD 2024 held in Goa India on 8 9 August 2024 The book covers the topics such as big data and data mining data fusion IoT programming toolkits and frameworks green communication systems and network use of ICT in smart cities sensor networks and embedded system network and information security wireless and optical networks security trust and privacy routing and control protocols cognitive radio and networks and natural language processing Bringing together experts from different countries the book explores a range of central issues from an international perspective **Digital Cities** O. V. Gnana Swathika, K. Karthikeyan, 2025-09-30 *Proceedings of the Second International Conference on Information Management and Machine Intelligence* Dinesh Goyal, Amit Kumar Gupta, Vincenzo Piuri, Maria Ganzha, Marcin Paprzycki, 2021-01-22 This book features selected papers presented at Second International Conference on International Conference on Information Management AI machine and deep learning information management security processing techniques and interpretation applications of artificial intelligence in soft computing and pattern recognition cloud based applications for machine learning application of IoT in power distribution systems as well as wireless sensor networks and adaptive wireless communication *Computational Intelligence in Internet of Agricultural Things* M. G. Sumithra, Malathy Sathyamoorthy, M. Manikandan, Rajesh Kumar Dhanaraj, Mariya Ouassa, 2024-08-27 This book focuses on the integration of IoT and AI techniques to generate greater data driven solutions for the agriculture industry It also focuses on computational intelligence CI machine learning and AI techniques along with current applications obstacles and potential challenges and solutions for agricultural industries These technologies have the potential to curtail resource wastage and contribute to addressing the challenges of feeding the expanding global population This book acts as a resource to augment the reader's comprehension of the role of emerging IT technologies in the agricultural sector This book also covers key technologies and techniques such as AI ML and IoT in the development of smart agriculture and provides information on various types of smart farming technology platforms and machine learning algorithms with case studies based on real time problems **Artificial**

Intelligence Tools and Technologies for Smart Farming and Agriculture Practices Gupta, Rajeev Kumar, Jain, Arti, Wang, John, Bharti, Santosh Kumar, Patel, Samir, 2023-06-27 There are various factors that influence the quality and quantity of agricultural products among them weather conditions play the most significant role in agriculture More reliable weather forecasting enables farmers to make important planting and harvesting decisions that can enhance agricultural yield Thus there is a dire need to combine all available modern technologies and agricultural science for economic and environmentally sustainable crop production In this direction artificial intelligence AI serves as a budding solution in the domain of agriculture practices Artificial Intelligence Tools and Technologies for Smart Farming and Agriculture Practices discusses various tools and technologies that can be used in smart farming and agriculture practice and explores the role of different emerging technologies like the internet of things big data machine learning deep learning and AI from agricultural prospects Covering key topics such as farming pests soil and weeds this premier reference source is ideal for environmentalists farmers agriculturalists industry professionals researchers academicians scholars practitioners instructors and students Data, Engineering and Applications Sanjeev Sharma, Sheng-Lung Peng, Jitendra Agrawal, Rajesh K. Shukla, Dac-Nhuong Le, 2022-10-11 The book contains select proceedings of the 3rd International Conference on Data Engineering and Applications IDEA 2021 It includes papers from experts in industry and academia that address state of the art research in the areas of big data data mining machine learning data science and their associated learning systems and applications This book will be a valuable reference guide for all graduate students researchers and scientists interested in exploring the potential of big data applications Smart Monitoring and Control in the Future Internet of Things, 2020-10-19 The Internet of Things IoT and related technologies have the promise of realizing pervasive and smart applications which in turn have the potential of improving the quality of life of people living in a connected world According to the IoT vision all things can cooperate amongst themselves and be managed from anywhere via the Internet allowing tight integration between the physical and cyber worlds and thus improving efficiency promoting usability and opening up new application opportunities Nowadays IoT technologies have successfully been exploited in several domains providing both social and economic benefits The realization of the full potential of the next generation of the Internet of Things still needs further research efforts concerning for instance the identification of new architectures methodologies and infrastructures dealing with distributed and decentralized IoT systems the integration of IoT with cognitive and social capabilities the enhancement of the sensing analysis control cycle the integration of consciousness and awareness in IoT environments and the design of new algorithms and techniques for managing IoT big data This Special Issue is devoted to advancements in technologies methodologies and applications for IoT together with emerging standards and research topics which would lead to realization of the future Internet of Things

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In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Iot Based Smart Monitoring System Jetir**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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