

PAPERNAME

ilovepdf\_merged (1).pdf

AUTHOR

NIRMAL SAHU

WORD COUNT

3189 Words

CHARACTER COUNT

20047 Characters

PAGE COUNT

26 Pages

FILE SIZE

788.7KB

SUBMISSION DATE

Nov 19, 2024 3:20 PM GMT+5:30

REPORT DATE

Nov 19, 2024 3:21 PM GMT+5:30

### ● 20% Overall Similarity

The combined total of all matches, including overlapping sources, for each database.

- 11% Internet database
- Crossref database
- 19% Submitted Works database
- 0% Publications database
- Crossref Posted Content database

### ● Excluded from Similarity Report

- Bibliographic material
- Small Matches (Less than 10 words)

**IOT based Health Monitoring System**

**Minor Project Report**

Submitted for the partial fulfillment of the degree of

**Bachelor of Technology**

**In**

**Internet of Things (IOT)**

**Submitted By**

**Adarsh Borkar  
(0901IO221003)**

**Nirmal Sahu  
(0901IO221049)**

**UNDER THE SUPERVISION AND GUIDANCE OF**

**Dr. Vinay Gupta  
Assistant Professor**



**Centre for Internet of Things**

**MADHAV INSTITUTE OF TECHNOLOGY & SCIENCE, GWALIOR(M.P.), INDIA  
माधव प्रौद्योगिकी एवं विज्ञान संस्थान, ग्वालियर (म.प्र.), भारत**

**Deemed to be university  
NAAC ACCREDITED WITH A++ GRADE A**

**June 2024**

## Similarity Report

UPPER NAME  
minor\_report\_nirmal\_adarsh.pdf

AUTHOR  
NIRMAL SAHU

WORD COUNT  
1032 Words

CHARACTER COUNT  
24961 Characters

PAGE COUNT  
31 Pages

FILE SIZE  
534.8KB

SUBMISSION DATE  
Nov 19, 2024 3:16 PM GMT+5:30

REPORT DATE  
Nov 19, 2024 3:17 PM GMT+5:30

### • 20% Overall Similarity

The combined total of all matches, including overlapping sources, for each database.

- 11% Internet database
- Crossref database
- 19% Submitted Works database
- 0% Publications database
- Crossref Posted Content database

### • Excluded from Similarity Report

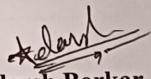
- Bibliographic material
- Small Matches (Less than 10 words)

#### ACKNOWLEDGEMENT

The full semester Internship/ Project has proved to be pivotal to my career. I am thankful to my institute, **Madhav Institute of Technology & Science** to allow me to continue my disciplinary/interdisciplinary Internship/ Project as a curriculum requirement, under the provisions of the Flexible Curriculum Scheme approved by the Academic Council of the institute. I extend my gratitude to the Director of the institute, **Dr. R. K. Pandit** and Dean Academics, **Dr. Manjaree Pandit** for this.

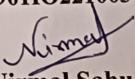
I would also like to extend my gratitude to the entire team at **Organization's Name**, especially **Industry Mentor Name(s)**, for their collaboration and support during my time with the organization. I am grateful for the opportunity to work alongside such talented individuals and to learn from their expertise and experiences.

I would sincerely like to thank my department, **Centre for Internet of Things**, for allowing me to explore this project. I humbly thank **Dr. Praveen Bansal**, Assistant Professor and Coordinator, Centre for Internet of Things, for his continued support during the course of this engagement, which eased the process and formalities involved. I am sincerely thankful to my faculty mentors. I am grateful to the guidance of **Faculty\_Name**, Assistant Professor, and Centre for Internet of Things, for his continued support and guidance throughout the project. I am also very thankful to the faculty and staff of the department.



Adarsh Borkar

0901IO221003



Nirmal Sahu

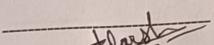
0901IO221049

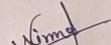
Centre for Internet of Things

**DECLARATION BY THE CANDIDATE**

I hereby declare that the work entitled "IOT based health monitoring system" is my work, conducted under the supervision of **Dr. Vinay Gupta (Assistant professor)**, during the session July-Dec 2024. The report submitted by me is a record of bonafide work carried out by me.

I further declare that the work reported in this report has not been submitted and will not be submitted, either in part or in full, for the award of any other degree or diploma in this institute or any other institute or university.

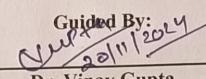
  
Adarsh Borkar  
090110221003

  
Nirmal Sahu  
090110221049  
B.Tech. V Sem

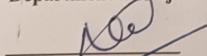
Date: 20-11-24

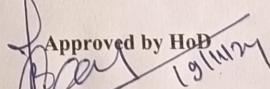
Place: Gwalior

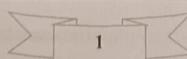
This is to certify that the above statement made by the candidates is correct to the best of my knowledge and belief.

  
Guided By:  
Dr. Vinay Gupta  
Assistant Professor  
Centre for Internet Of things  
MITS, Gwalior

Departmental Project Coordinator

  
Dr. Nookala Venu  
Assistant Professor  
Centre for Internet of Things  
MITS, Gwalior

  
Approved by HoD  
Dr. Praveen Bansal  
Assistant Professor  
Centre for Internet of Things  
MITS, Gwalior



### Plagiarism Check Certificate

This is to certify that I/we, a student of B.Tech. in Internet of Things(IOT) have checked my complete report entitled "IOT Based Health Monitoring System" for similarity/plagiarism using the "Turnitin" software available in the institute.

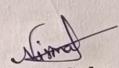
This is to certify that the similarity in my report is found to be .....which is within the specified limit (30%).

The full plagiarism report along with the summary is enclosed.



Adarsh Borkar

0901IO221003



Nirmal Sahu

0901IO221049

Checked & Approved By:



Dr. Gaurav Khare

Assistant Professor

Centre for Internet of Things

MITs, Gwalior

## ABSTRACT

This paper presents an Internet of Things (IoT) based health monitoring system designed to remotely track patients' vital signs in real-time, enabling timely interventions and improved healthcare outcomes. The system integrates wearable sensors, wireless communication networks, and a data analytics platform to collect, transmit, and analyze patients' health data. The proposed system features: Real-time monitoring of vital signs (heart rate, blood pressure, oxygen saturation, etc.), Automated alert generation for abnormal health readings, Secure data storage and access through a user-friendly interface, Data-driven insights for personalized healthcare recommendations.

Experimental results demonstrate the system's accuracy, reliability, and effectiveness in detecting health anomalies. The proposed system has the potential to: Enhance patient engagement and empowerment, Reduce hospital readmissions and emergency department visits, Improve disease management and prevention, Optimize healthcare resource allocation.

