WORKSHOP

ORGANISING INNOVATION AND ENTREPRENUERSHIP OUTREACH PROGRAM IN SCHOOLS/COMMUNITY

ON

17.02.2023

T.J.S ENGINEERING COLLEGE

Approved by AICTE, New Delhi & Affiliated to Anna University Chennai,
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T.J.S ENGINEERING COLLEGE
14 Years of Excellence
☆ Since 2009 ☆

Organising Innovation & Entrepreneurship Outreach Program in Schools / Community

Resource Person

Ms. V. Pavithra, B.E., M.E (CSE)
Assistant Professor
Department of Computer science
T.J.S Engineering college

DATE
17.02.2023

TIME
10.00 am
to
12.00 pm

Venue

Government Girls Hr Sec School , Gummidipoondi

TJS ENGINEERING COLLEGE
INSTITUTION INNOVATION CELL
OVERALL ACTIVITY REPORT – 17-02-2023

QUARTER 2
ACTIVITY: ORGANISING INNOVATION AND ENTREPRENUERSHIP OUTREACH PROGRAM IN SCHOOLS/COMMUNITY.
VENUE: GOVERNMENT GIRLS HIGHER SECONDARY SCHOOL,GUMMIDIPOONDI.
DURATION: 17-02-2023

REPORT OF THE ACTIVITY

As per the quarterly plan presented at the innovation council meet, we have planned this activity to be conducted on 17-02-2023. The objective of the program was to make awareness among the student community about the importance of Technology. The program was framed to be having an half a day session. The Structure of the program is itself to clear the doubts of students and bring more clarity on Technology. The session was interactive and interesting. The Workshop was conducted by the Assistant Professor of Computer science and Engineering Ms.V.Pavithra of our college who established himself in the Technology field.

The Highlights of the session:

- Entrepreneur activities for students.
- Creative thinking activities for students
- Ideas to bring entrepreneur in classroom
- Starting a business activity for students.
- Starting a small business outreach program.

Further at the end of the event students and guests feedbacks were obtained for refining and continuous improvement in future IIC activities. Students from various disciplines of the college participated with enthusiasm and interest. The event was conducted without any flaws due to the support and encouragement from the head of the institution and the management.

PRESIDENT, IIC

PRINCIPAL

WORKSHOP

NATIONAL SCIENCE DAY

ON

28.02.2023

T.J.S ENGINEERING COLLEGE

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MoE's INNOVATION CELL (GOVERNMENT OF INDIA)

INSTITUTION'S INNOVATION COUNCIL

14 Years of Excellence

NATIONAL SCIENCE DAY

Semester 1 Quarter 2

DATE

28.02.2023

TIME

10.30 am - 12.30 pm

VENUE

T. J. S Seminar Hall

Resource Person

Dr. S. Anbu, M.E., Ph. D.,

Prof / Head

Department of Computer science

T.J.S Engineering college


National Science Day
NATIONAL
SCIENCE DAY
28TH FEBRUARY


TJSEC
TJSEC

Peruvoyal.
16/2/23

From

J. Agnes
AP/CSE
IIC staff Coordinator/CSE
TJS Engineering College
Peruvoyal.

16/2/23

To

The Principal
TJS Engineering College
Peruvoyal.

Sir

Sub: Need plaument hall with PA system to Conduct Workshop - reg.

As per our IIC activity plan, our department Organizing day Worshop on National Sciene day on 28.2.23. Kindly provide us seminar hall with PA System. To faciliate resource person we need a shawl + gift. Kindly provide us. Also provide Special lunch to resource person.

Thanking You

Yours faithfully
J. Agnes
(Mrs. J. Agnes)

T.J.S. ENGINEERING COLLEGE
TJS Nagar, Kavaraipettai, Chennai 601206

DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

WORKSHOP ON NATIONAL SCIENCE DAY

DATE:28.2.2023

SNO	REGISTER NO	NAME	SIGNATURE
1	112820104001	ABDUL IMRAN. A	
2	112820104002	MANUGUNTA DEVI PRASANTHI	
3	112820104003	DILLIVEL. N	
4	112820104004	ISHWARYA. R	
5	112820104005	KUMAR. V	
6	112820104006	LIDIYA ANGEL .U	
7	112820104007	LOKESHWARI. S	
8	112820104008	NANDHINI. S	
9	112820104009	NARMADHA. N	
10	112820104010	NIRBHAY KUMAR . A	
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17	112820104017	SARANRAJ. S	
18	112820104019	THARANI. S	
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21	112820104022	VENKATRAMAN .K	
22	112820104023	VINITHA . S	
23	112820104024	VITHUN .V.S	
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26	112820104302	BALAJI J	
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31	112820104307	RAGUL SANJAI A	
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33	112820104309	SANJAI .J.N	
34	112820104310	SURYA	
35	112820104701	BARATH	
36	112819104002	AJITH L	
37	112819104003	AKASH TIWARI N	
38	112819104004	AKSHAYA V	
39	112819104005	ARCHANA I	
40	112819104006	BALUSUNDAR T S	

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101	112819104701	MAHALAKSHMI	
102	112819104702	SANDHIYA	

STAFF COORDINATOR

29/21

PRINCIPAL

T.J.S ENGINEERING COLLEGE

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.
TJS Nagar, Peruvoyal, Near Kavaraipettai, Gummidipoondi Taluk, Thiruvallur District -601206

SEMINAR ON

AUGMENT REALITY (AR)
&
VIRTUAL REALITY (VR)

T.J.S ENGINEERING COLLEGE

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.
TJS Nagar, Peruvoyal, Near Kavaraipettai, Gummidipoondi Taluk, Thiruvallur District -601206

CO-ORDINATED BY

DR.S.ANBU.M.E.Phd.,

SEMINAR

BY

MR.ASHIK AHMED

(SCOPIK EDUTECH PRIVATE LIMITED)

Organized & Managed By:
Department of Computer science and Engineering
T.J.S. Engineering College, Peruvoyal.

Date: 8th of February, 2023

T.J.S ENGINEERING COLLEGE

Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai.
TJS Nagar, Peruvoyal, Near Kavaraipettai, Gummidipoondi Taluk, Thiruvallur District -601206

Introduction:

Department of Computer Science and Engineering from T.J.S. Engineering College has arranged one day seminar for 3rd year students. The topic of **AUGMENT REALITY (AR) &VIRTUAL REALITY (VR)** dated on 8th February, 2023 for better technical knowledge enhancement of students. Seminar is important especially important in the field of Engineering as gaining knowledge of the concept of various Reality. These session can be a powerful tool to constitute a positive technical knowledge and can range from basic informations about these concept for students. Overall, the aim of all these seminar to trains the students to understand about **Augment and Virtual reality** . After seminar students can know their importance of knowing the basics about the topic which is important for their career, improving importance of work efficiency and confidence.

Purpose:

Seminar is an important part of Engineering and acknowledgment of technological up gradation. The purpose of Seminar for students is to provide technical knowledge with the technological development in the upcoming technology and to understand the gap between the theoretical and practical knowledge that could be passed in future. This experience can help students to provided information regarding functioning of various concept of Reality and associated problems and limitations. Interfacing with the technology also provides a chance to build networks and hone their communication skills. Moreover, the participating organizations also gain by getting refined students from the respective institute which could also help in improving their economy.

What We Learn? :-

On 8th February, 2023, in our college seminar hall at 10.am to 1 pm. A seminar by MR. ASHIK AHMED, has teach the seminar on Augment Reality and Virtual reality. Generally **VIRTUAL REALITY** an immersive virtual environment, while **AUGMENT REALITY** is a real- worldscene.

Various Steps involved in seminar and discussions.

1. **Introduction**
2. **Definition**
3. **Difference between AR and VR**
4. **Applications**
5. **Advantages and Disadvantages**

Conclusion:

From this seminar, we got the information and practical knowledge about Virtual Reality and Augment Reality. Students got the knowledge about technology behind this. They got the idea about these concepts.

About 35 students of 6th Semester Computer Science and Engineering of T.J.S. Engineering College, Peruvoyal & Coordinator named Dr.S.ANBU.M.E.,PHD. HOD & Professor.. Sir, benefited from this seminar as he got chance to discussion with the seminar conducted sir and to know how our students understand about the topic. Students were eagerly to say organizing this type of seminar for learning technically to exposure which is shows the success of this seminar.

T.J.S ENGINEERING COLLEGE

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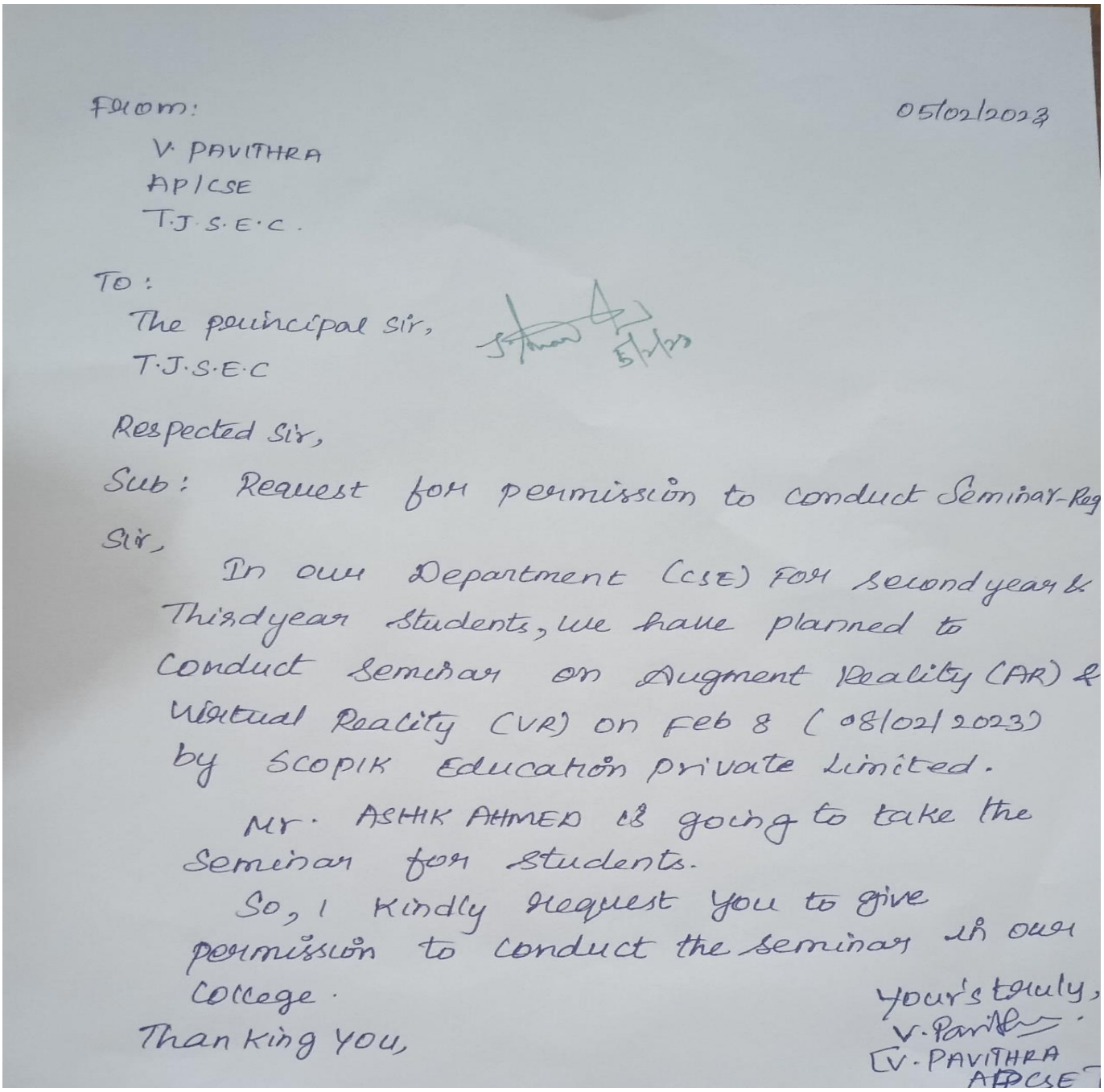
TJS Nagar, Peruvoyal, Near Kavaraipettai, Gummidipoondi Taluk, Thiruvallur District -601206

REQUESTING LETTER:

The requesting letter is given to the Principal to get permission to conduct seminar in our college on Feb 8th 2023. The permission is given by the principal.



From:
V. PAVITHRA
AP/CSE
T.J.S.E.C.

05/02/2023

To:
The principal sir,
T.J.S.E.C

Respected Sir,

Sub: Request for permission to conduct Seminar-Reg

Sir,

In our Department (CSE) for second year & Third year students, we have planned to conduct Seminar on Augment Reality (AR) & Virtual Reality (VR) on Feb 8 (08/02/2023) by SCOPIK Education private Limited.

Mr. ASHIK AHMED is going to take the Seminar for students.

So, I Kindly request you to give permission to conduct the seminar in our college.

Thanking You,

Your's truly,
V. Pavithra
V. PAVITHRA
AP/CSE

T.J.S ENGINEERING COLLEGE

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TJS Nagar, Peruvoyal, Near Kavaraipettai, Gummidipoondi Taluk, Thiruvallur District -601206

SEMINAR PHOTO'S:

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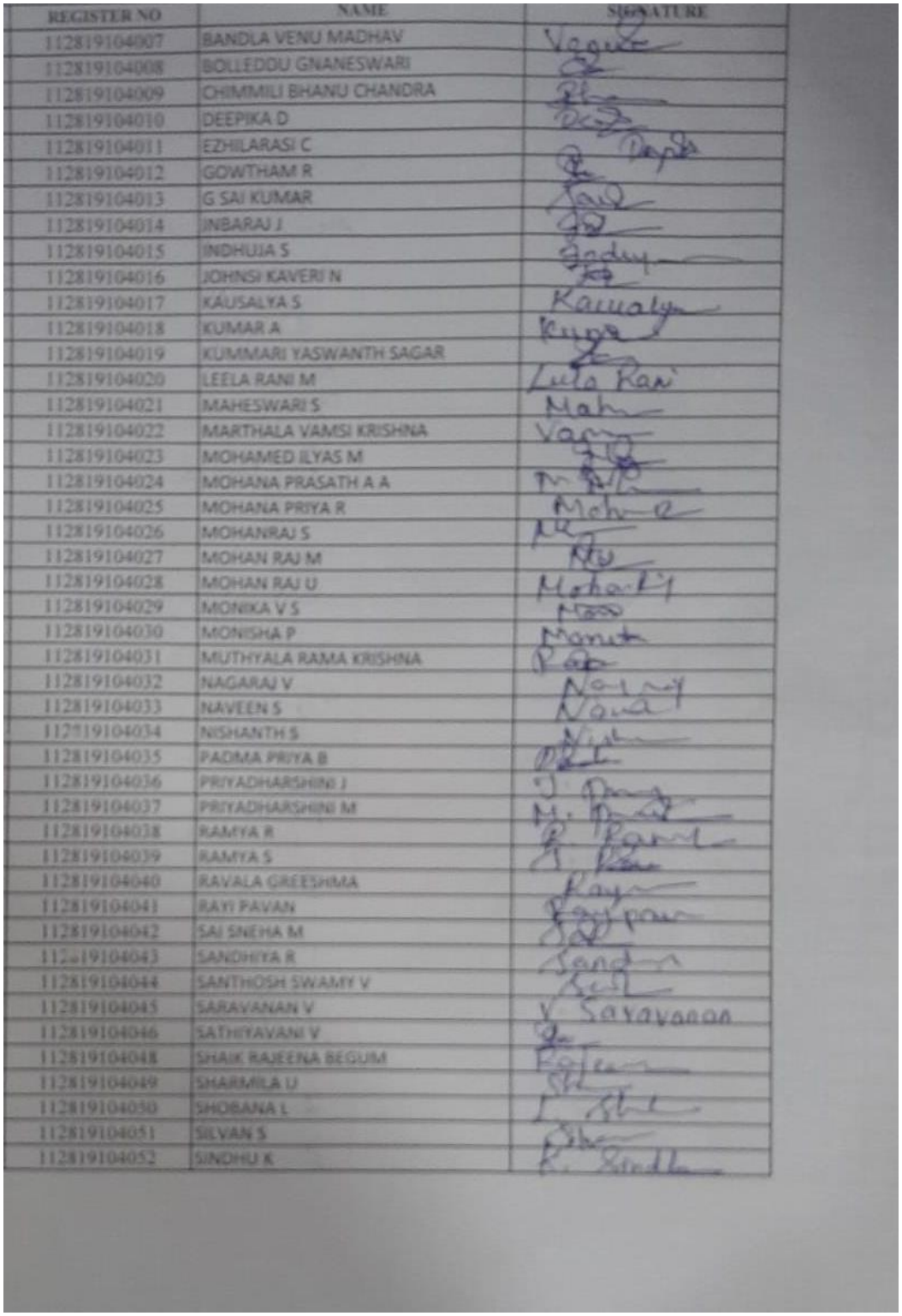
TJS Nagar, Peruvoyal, Near Kavaraipettai, Gummidipoondi Taluk, Thiruvallur District -601206

STUDENT NAMELIST



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112819104052	SINDHU K	

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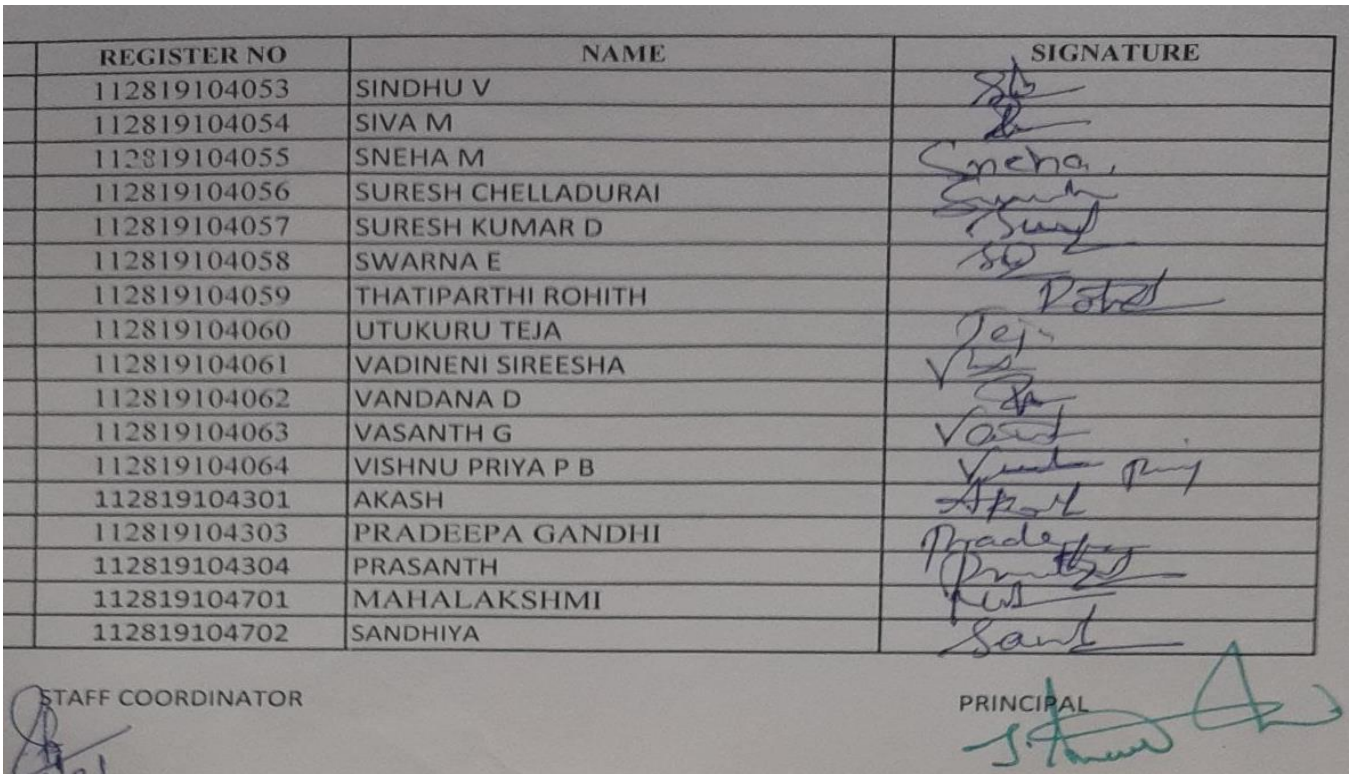

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STAFF COORDINATOR

PRINCIPAL

T.J.S ENGINEERING COLLEGE

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Patent Published On the Title Of

AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms

BY Mrs. Agnes

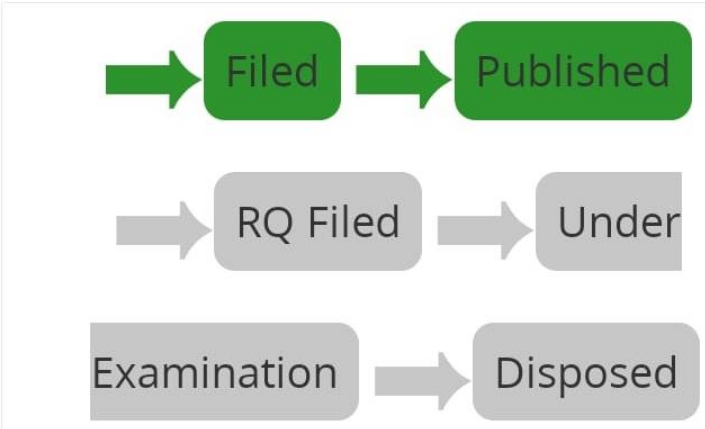
17/02/2023

PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	17/02/2023

Application Status

APPLICATION STATUS	**Awaiting Request for Examination**

View Documents



In case of any discrepancy in status, kindly contact ipo-helpdesk@nic.in

FORM 2

THE PATENTS ACT 1970

39 OF 1970

&

THE PATENT RULES 2003

COMPLETE SPECIFICATION

(SEE SECTIONS 10 & RULE 13)

1. TITLE OF THE INVENTION

AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms

2. APPLICANTS (S)

NAME	NATIONALITY	ADDRESS
Sabarish K V	Indian	Student, Master of Science, Teesside University Pin: TS1 3BX, Middlesbrough, United Kingdom
Rahul Kumar	Indian	Assistant Professor, Department of Computer science and Engineering, Bharat Institute of Technology, NH-58, Partapur Bypass, Meerut - 250103, Uttar Pradesh, India.
Dr Mohd Uruj Jaleel	Indian	Associate Professor, Department of Computer Science and Engineering, Dr KN Modi Institute of Engineering and Technology, Modinagar, Ghaziabad, Uttar Pradesh, India
Vivek Kumar Prasad	Indian	Assistant Professor, Department of CSE, ITNU, Ahmedabad,

		S G Highway, Gandhi Nagar, Gujarat, India
Sandeep Bharti	Indian	Assistant Professor, Department of BCA, Vidya Institute of Creative Technology, Meerut, Uttar Pradesh, India.
Mrs. J. Agnes	Indian	Assistant Professor, Department of Computer Science and Engineering, TJS Engineering College, Peruvoyal, Near Kavarapettai, Gummidipoondi, Thiruvallur Dist- 601206, Tamil nadu, India
Disha Saini	Indian	Assistant Professor, Bachelors's in Computer Application, Vidya Institute of Creative Teaching, Baghpat Road, Delhi-Meerut Bypass, Meerut, Uttar Pradesh, India
Abhishek Satyarthi	Indian	Assistant Professor, Department of CSE/IT, Hi-Tech Institute of Engineering and Technology, Ghaziabad, 26th Km Mile Stone, Plot No 766, NH-24, Delhi-Hapur Bypass, Adhyatmik Nagar, Ghaziabad - 201015
Dilip Kumar Bharti	Indian	Assistant Professor, Department of Computer Science and Engineering, Hi-Tech Institute of Engineering and Technology, Plot No. 766, 26th KM Milestone,NH-9, Ghaziabad, Uttar Pradesh – 201015, India
Mamta Pant	Indian	Assistant Professor, Department of CSE, Hi Tech Institute of Engineering and Technology,

		Dr. APJ Abdul Kalam Technical University, Plot No. 766, 26th KM Milestone,NH-9, Ghaziabad, Uttar Pradesh – 201015, India
RAVI PAL	Indian	Lecturer(IT), Technical Education UP Govt., Mahamaya Polytechnic of Information Technology, Salempur, Hathras, Uttar Pradesh, India
K. Sudha	Indian	Assistant Professor, Department of CSE, St. Joseph's College of Engineering, OMR, Chennai 600119, Tamilnadu, India

2. PREAMBLE TO THE DESCRIPTION

COMPLETE SPECIFICATION

The following specification particularly describes the invention and the manner in which it is to be performed

AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms

Abstract:

At this time, heart disease is considered to be one of the major causes all over the world. Because it is a complicated endeavour that necessitates knowledge as well as a significant amount of information for medical professionals to foresee, it is not something that can be simply predicted. The availability of a vast number of data is made possible by healthcare platforms that are based on the internet. On the other hand, adequate data analysis tools that can unearth buried connections and patterns in the data are in short supply. A technology that automates medical diagnosis would enhance productivity in the medical industry while also lowering costs. This web application's overarching goal is to use information gleaned from clinical research — specifically heart disease — to make educated guesses about the likelihood of a condition developing. The goal of this project is to use data mining techniques to identify patterns within the information that are important to heart illness, and then use those patterns to make predictions about the presence of heart disease in persons whose presence is measured on a scale. Predicting cardiac disease requires a huge amount of data that is both too complex and too massive to be processed and analysed using the procedures that are considered to be the industry standard. Our goal is to determine the one machine learning method that is superior to all others in terms of its ability to accurately forecast cardiac illness while simultaneously minimising the amount of computer resources required to do it.

DESCRIPTIONS:

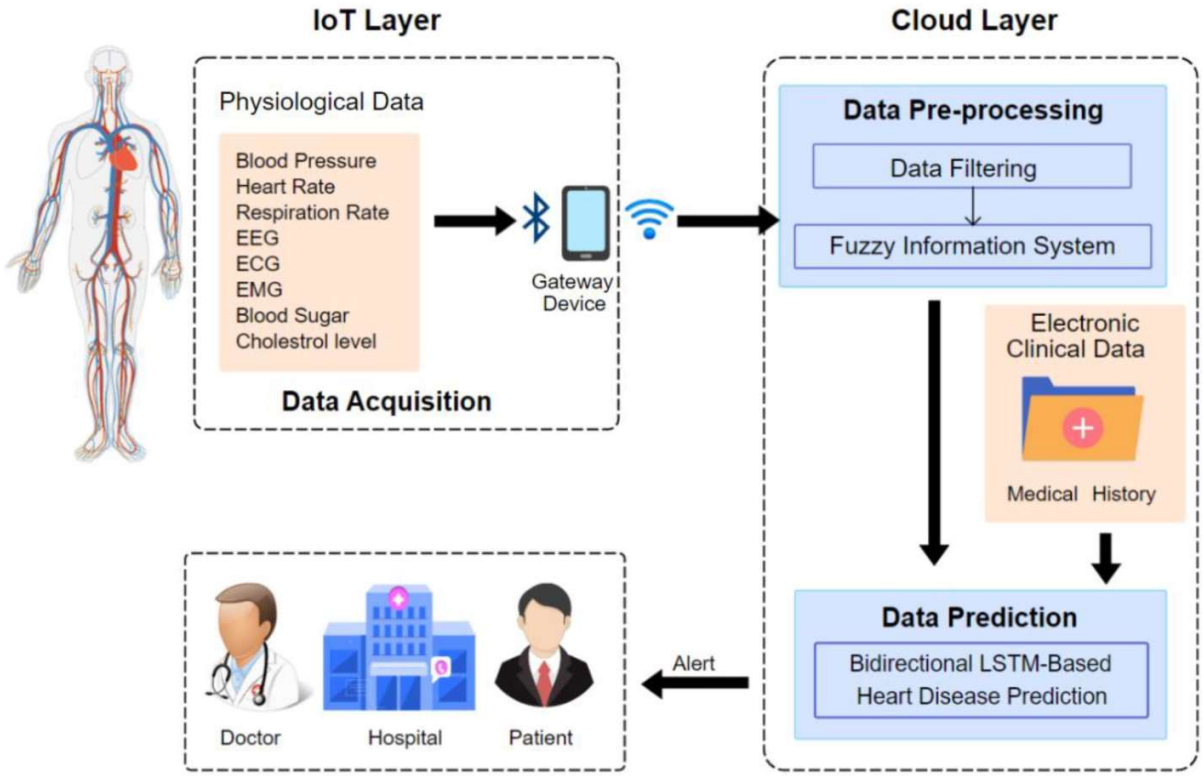
Cancer is the second leading cause of death in India, but heart disease remains the leading cause of death. According to the World Health Organization (WHO), heart disease is the leading cause of death, accounting for 31% of all deaths annually. As a result, it is crucial to receive an accurate diagnosis as soon as possible to lower mortality rates. In databases, data mining tools can unearth previously undisclosed information. Using the new information, those in charge of the healthcare system could attempt to enhance the service they deliver to patients. Doctors can also use this new information to reduce the amount of undesirable side effects and discover less expensive alternatives with equivalent efficacy. Predicting future patient behaviour is the most essential application of data mining techniques in healthcare administration. This is one application possibility. Providing high-quality services at cheap prices is one of the most difficult difficulties hospitals and medical centres face in the present day. To offer proper care, precise diagnoses and effective treatment approaches are required. Inadequate clinical judgement can have catastrophic results and is therefore unacceptable. The most crucial aspect is to avoid making these mistakes. The costs associated with clinical exams should be kept as low as possible by hospitals. Utilizing the necessary computer-based information and/or decision-making tools, they accomplish these objectives. In health care, there are many data. It contains information about patients, how resources are utilised, and how data is amended. Any healthcare professional must be capable of data analysis. The treatment records of millions of patients can be preserved, and data mining and other forms of computerization may provide light on some of the most serious health-care issues of the present day. Many

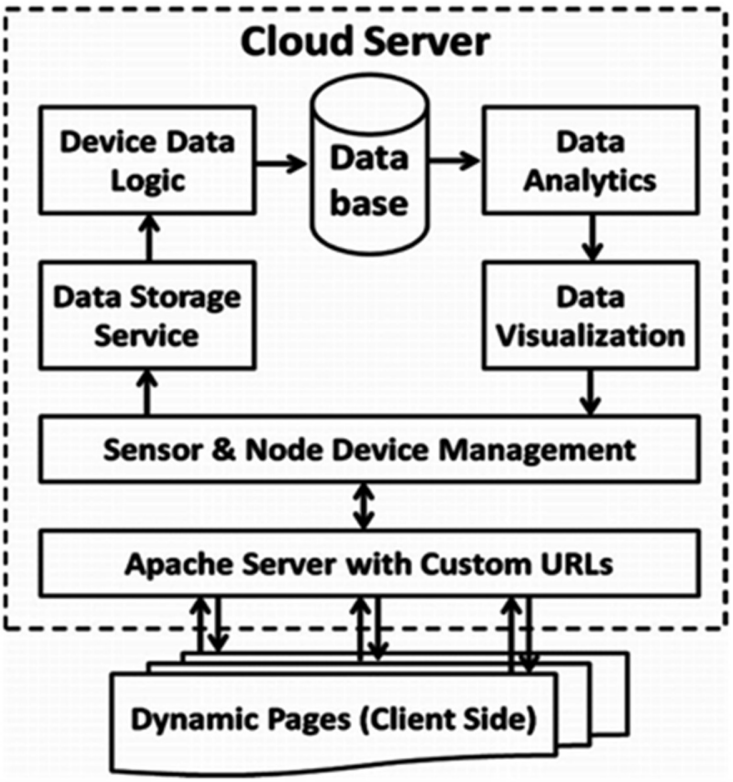
therapeutic decisions are primarily based on the attending physician's judgement and expertise, as opposed to the massive amounts of data included in databases. This technique leads to biases, errors, and rising healthcare costs, all of which diminish the quality of patient care. Wu et al. hypothesised that the incorporation of clinical decision support into electronic health records (EHRs) would improve medical outcomes by reducing errors, making patients safer, minimising unnecessary practise variation, and standardising care. This idea has considerable promise since it can contribute to the development of a culture that values acknowledgments, which can significantly improve the quality of treatment decisions made using data modelling and analytical approaches such as data mining. In recent years, the Internet of Things (IoT) has gained popularity as a novel concept among academics and businesses. This system, along with others, will benefit both people and the environment as a whole. This category encompasses business owners, consumers, the environment, individuals, and society at large (SHM). Structural health monitoring (SHM) gathers data from a variety of sensors to determine the performance of a structure and how to keep it safe. The proposed system utilises Internet of Things technology to create a surveillance system that can monitor a patient in real time and from any location without requiring the nurse to be present at all times or in any location. Anywhere: The manufacturer claims that because it utilises in-house human behaviour detection and classification, this system can be used to monitor patients. This device is suitable for use by anyone and is extremely simple to operate due to its simplicity and low price. This system, which makes use of small, energy-efficient devices, enables people from all over the world to communicate. Heart rate data can be extremely useful when creating a workout plan, analysing

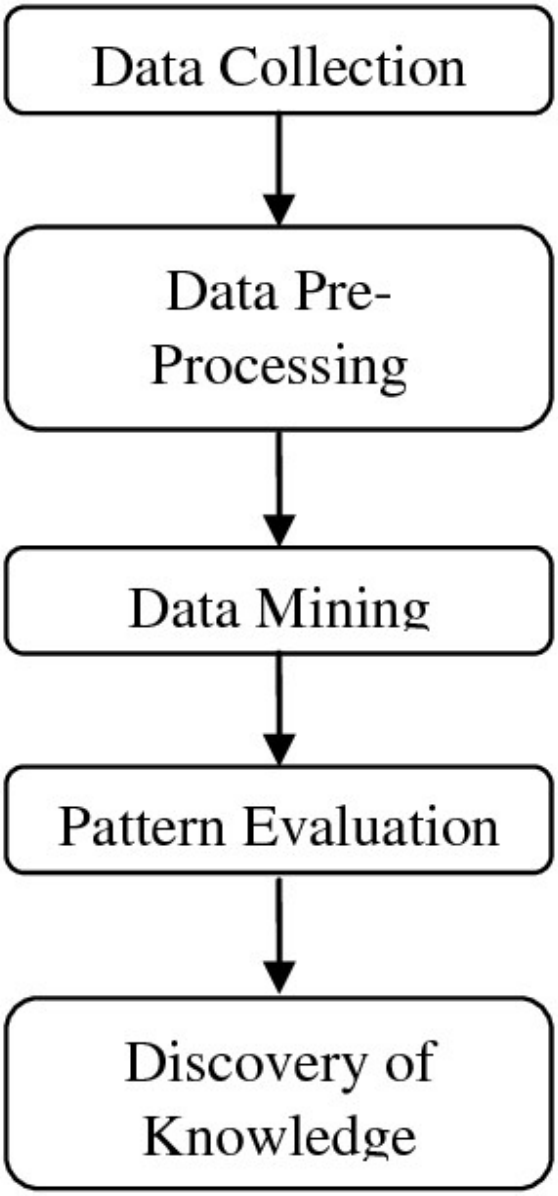
your activity or stress levels, or simply when you want your shirt to blink in time with your heartbeat. Calculating your heart rate can be challenging in some cases. While this is not always a bad thing, Pulse Sensor Amped can aid in the process. As a result, this article will describe how to build an IoT-based heartbeat monitoring and alert system. Through the Internet of Things, you can monitor things like structural health using a variety of wireless technologies. As the Internet of Things gains traction, new technologies are being developed to meet community needs. Several Internet of Things (IoT) communication solutions for structural health monitoring have been proposed in recent years. These solutions establish a connection between network devices capable of detecting and collecting useful data. Chronic diseases are increasing in prevalence among the elderly, which is a major concern because there are insufficient resources and the costs of treatment are exorbitant. People who live in remote areas without access to medical facilities face an even greater risk of death as a result of late diagnosis and treatment. Diagnosis and treatment are critical to our success. Wireless communication and wearable sensors have enabled real-time healthcare monitoring systems. For people who live in remote areas, this study recommends real-time heart monitoring. System: Wearable sensors, an Android phone, and a web-based interface comprise the system. Due to the system's adaptability, it is capable of simultaneously collecting heart rate, blood pressure, and temperature readings from a large number of people. The extracted data is transmitted via Bluetooth low energy to an Android handheld device. The Android device then sends the data to a web application for further analysis. Individuals can access their medical history and personal information, such as their age, gender, address, and location, via a web interface displayed by the web application following

data processing from the website. A threshold-based alarm system has been developed to alert the physician to any abnormalities such as arrhythmia, low blood pressure, high blood pressure, fever, or hypothermia. The system monitored forty (40) heart patients who were physically separated from the web application in order to evaluate and demonstrate the system's functionality in real-world situations. The researchers determined that the data obtained via the system was statistically significant and sufficient. Additionally, Wi-Fi and 3G wireless protocols are used to validate remote monitoring by determining the time required to transmit data from the patient's interface to the doctor's interface. This is the time required to send the data. The message transmission times of both wireless protocols were found to be within the acceptable range of medical standards (4 to 6 minutes as per American Heart Association). The purpose of this research is to develop a wireless real-time monitoring system for people who live in remote areas. The built-in system is expected to alert the doctor in the event of a medical emergency. Due to the fact that 3G signals can be spotty in some remote areas, this process may take longer. Future research should consider whether to include a delayed alarm even when the optimal time window remains available. The proposed remote monitoring system will be more useful if it is implemented using wireless technology. This may become a possibility as wireless technology advances. False alarms can be caused by a variety of factors, including sensor and smartphone battery issues. Due to the battery life and false alarms, additional research can be conducted to come up with a solution.

DRAWINGS:


IoT Layer
Cloud Layer
Physiological Data
Blood Pressure
Heart Rate
Respiration Rate
EEG
ECG
EMG
Blood Sugar
Cholestrol level
Data Acquisition
Gateway Device
Data Pre-processing
Data Filtering
Fuzzy Information System
Electronic Clinical Data
Medical History
Data Prediction
Bidirectional LSTM-Based Heart Disease Prediction
Alert
Doctor
Hospital
Patient


Cloud Server
Device Data Logic
Data base
Data Analytics
Data Storage Service
Data Visualization
Sensor & Node Device Management
Apache Server with Custom URLs
Dynamic Pages (Client Side)



CLAIMS

1. AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms a cutting-edge science technology.

2. AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms of claim 1, wherein

said that it can be used for a variety of purposes, including early disease detection, diagnosis, and treatment.

3. AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms of claim 1, wherein said the proposed system is more accurate and faster.

4. AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms of claim 1, wherein said that in this paper, we analyzed and discussed various aspects.

5. AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms of claim 1, wherein said that in recent years, Heart Attack disease become a hot topic in medical system.

6. AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms of claim 1, wherein said that a reliable and efficient system for monitoring variables.

7. AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms of claim 1, wherein said that this research looks at all of the important and recent work that has been done so far, as well as its limitations and challenges.

8. AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms of claim 1, wherein said that Additional disease types may be studied in the future.

9. AI and Cloud based Prediction and Diagnosis of various heart diseases and chances of Heart attack and to prevent at early stage with affordable rate using Data Mining Techniques and Machine Learning algorithms of claim 1, wherein said that this study could compare the performance of various algorithms used in the diagnosis of Heart Attack disease.