

SRI VENKATESWARA COLLEGE OF ENGINEERING
(Autonomous, Affiliated to Anna University)
Pennalur, Sriperumbudur-602117



COMPUTER SOCIETY OF INDIA

SVCE STUDENT CHAPTER

REPORT

On

Industry Supported 5 Days STTP
on

“Recent Trends and Applications in IoT”

Date: 27/02/2024- 02/03/2024

Venue: Google meet, Online

Time: 6.15pm to 7.30pm

Submitted to the principal
[Signature]
19/02/24

Spencer
19/02/24

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On

**Industry(IobiT Solutions) Supported 5 Days
STTP
on**

“Recent Trends and Applications in IoT”

Date: 27/02/2024 - 02/03/2024

Venue: Google Meet, Online

Time: 06:15 PM - 07:30 PM

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Industry Supported 5 Days STTP on Recent Trends and Applications in IoT

Are you fascinated by the boundless possibilities of IoT? Seize the chance to explore The realm of IoT at our upcoming workshop! This event is tailored to expand your knowledge and chart a course for the future.

Date & Time
February 27 - March 2, 2024
06:15PM - 07:30PM

Mode of Activity
Online - Hosted by
Computer Society of India,
SVCE



Scan here to Register

Free Registration

DAY - 1		Mr. Karthikeyan Technical Head lobiT Solutions Bangalore
DAY - 2		Mr. N. Srikanth Director lobiT Solutions
DAY - 3		Dr. S. Nagaraju Associate Professor Computer Science, Pondicherry University
DAY - 4		Dr. Saravanan Nathan Lurudusamy HRDF certified trainer ministry of HR, Malaysia
DAY - 5		Dr. Supriya M Associate Professor, School of Computing, Bengaluru Vice-Chairperson

Convenor



Dr. V. Vidhya
Professor, HoD
INT, SVCE

Faculty Coordinators



Mr. V. Ranjith
Assistant Professor
INT, SVCE



Mr. V. Praveenkumar
Assistant Professor
INT, SVCE



Mr. A. Thiyagarajan
Assistant Professor
INT, SVCE

DAY - 1 - Invitation



STTP DAY 1

Importance of LPWAN &
Battery operated Devices in
IoT

 **TUESDAY**
27 FEBRUARY 2024

 **TIME**
06:15PM - 07:30PM



Mr. KARTHIKEYAN

Technical Head
lobiT Solutions - Bangalore

Connecting the world with LPWAN, where battery-powered
devices lead the way, while efficiency and lifespan holds
way in the Internet of Things



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COMPUTER SOCIETY OF INDIA - SVCE STUDENT CHAPTER

Solicit your esteemed presence for the

Industry Supported 5 Days STTP on

**“Importance of LPWAN & Battery operated
devices in IoT”**

By

Mr. Karthikeyan

Technical Head
IobiT Solutions, Bangalore

AGENDA

- Welcome Address
- Introduction of Chief Guest
- Short Note by CSI-SVCE Student Branch Counselor
- Workshop by Mr. Karthikeyan
- Vote of Thanks

COORDINATORS:

Dr. V. Vidhya - CSI-SVCE Student Branch Counselor

Mr. V. Ranjith (AP/INT)

Mr. V. Praveenkumar (AP/INT)

Mr. A. Thiyagarajan (AP/INT)

EVENT SNAPS

The slide titled "IoT Architecture" is divided into two main sections: "Existing" and "Emerging Technology".

Existing: This section shows three integration patterns:

- Direct Integration Pattern:** A "Thing" is connected directly to a "Cloud".
- Gateway Integration Pattern:** Multiple "Things" are connected to a "Gateway", which is then connected to a "Cloud".
- Cloud Integration Pattern:** Multiple "Things" are connected directly to a "Cloud".

Emerging Technology: This section shows a "Things Framework" containing multiple "Things" connected to a "Things Gateway", which is then connected to a "Things Cloud".

Arrows labeled "WoT API" indicate the flow of data between the "Existing" patterns and the "Emerging Technology" framework.

Mr. Karthik giving an outline on how IoT works

The slide titled "IoT Experience Kit" displays a green PCB populated with various electronic components. The components are labeled as follows:

- DC Power IN** (5V, 3.3V, GND)
- Arduino UNO**
- Raspberry Pico**
- ESP 32**
- STM32 - Blue Pill**
- Raspberry Pi Integration Box**
- Accelerometer & Gyroscope**
- RGB LED**
- DS18B20**
- Push Button**
- NB-IoT / ZigBee Module**
- LoRa Module with Antenna**
- DHT11 - Temp & Hum Sensor**
- RS232 - Converter**
- RS485 Converter**
- CAN Module**
- CSM Module**
- 1.8" TFT LCD**
- POT**
- Relay**
- Buzzer**

At the bottom, there are logos for various IoT protocols: Wi-Fi, ZigBee, NB-IoT, LoRa, and LoRaWAN. The text "LEARN | DEVELOP | EXPLORE" is also present.

Students queries regarding IoT experience kit

EVENT SNAPS

The screenshot shows a Zoom meeting interface. At the top, it says "KARTHIK SINGARAM (Presenting)". The main content is a presentation slide with two photographs. The left photo shows a field of green plants with two white sensors on stands, each with a red and white box on top. Red handwritten text "Sri Venkateswara" is overlaid on the image. The right photo shows a similar sensor setup in a field, with a red and white box on a tall pole. The Zoom interface includes a bottom toolbar with icons for mute, video, chat, share screen, and end call. On the right side, there is a list of participants: "42 GOWTHAM S CSE", "RASHMIKA R S IT", "Computer Society of In...", "KARTHIK SINGARAM" (highlighted), and "S A" with "93 others". The bottom left shows the time "6:58 PM" and the meeting ID "mvg-ogfk-gvq".

Explanation of IoT in Agriculture

STTP

DATE: 27/02/24

TIME: 6:15 PM

OBJECTIVES:

- To acquire new skills or deepen existing ones in the domain – Importance of LPWAN & Battery operated devices in IoT.
- To stay updated with the latest trends, technologies and practices in that respective field.

ABOUT THE PROGRAMME:

The Computer Society of India - SVCE Student Chapter orchestrated a transformative Industry supported 5 days STTP centered on “**Recent trends and applications in IoT**“. Day one highlighted the erudite **Mr. Karthikeyan**, Technical head, IobiT Solutions, Bengaluru leading a compelling session on the topic “**Importance of LPWAN & battery operated devices in IoT**“. **Dr.V.Vidhya**, the **Student Branch Counselor of CSI**, commenced the proceedings with a reflective introduction, underscoring the accomplishments of the chief guest. The event unfolded with a warm welcome and comprehensive introduction by **Kavitha R, Secretary of CSI**, who provided an overview of the esteemed guest, Mr. Karthikeyan. Mr. Karthikeyan captivated the audience with his enlightening talk, delving into crucial aspects of IoT such as IoT architecture where he discussed about existing and emerging technologies, IoT in agriculture, direct integration. Gateway integration etc.. Furthermore, Mr.Karthikeyan provided invaluable insights into communication options, IoT kit, LoRa and its communication. At last, he also discussed about some gateway products. The event reached its end with a gracious vote of thanks delivered by **Kavitha R**, marking a harmonious blend of erudition and engagement. The event was highly interactive and successful, attributed to the collaborative efforts of CSI office bearers and concerned faculties.

OUTCOME OF THE PROGRAMME:

- The speaker gave insights about the necessary skill sets that are predicted to be explored in the future.
- The program served as an effective platform for learning.

ATTENDANCE REPORT

Total no of students	II	III	IV
	62	8	2
Total no of faculty	15		

Day 1-Attendance

Name	Department	Year
A Tharun	IT	II
A. Kanagavel	MARINE	II

Abirami.RM	EEE	II
Adhithiyan R	EEE	II
Agnes Rose V	ECE	II
Ahilan C	EEE	II
Ajay A	AIDS	II
Akshay G	ECE	II
Akshaya K	CSE	II
Arulkumar Muniyappan	MECH	FACULTY
Arulmozhi S	EEE	FACULTY
Balaji Vignesh L K	ECE	FACULTY
Bharath M	EEE	II
Dakxin Shaswath Haran Y	MECHANICAL & AUTOMATION	II
Dhanush.M	EEE	II
Dr R Jayabhaduri	CSE	FACULTY
Dr. V. Rajalakshmi	CSE	FACULTY
Dr.M.K.Sandhya	CSE	FACULTY
Dr.R.Gayathri	ECE	FACULTY
G Raja Vishalini	IT	II
Girish	BIO-TECH	III
Gopika J	EEE	II
Hari Kishore K	EEE	II
Harikrishnan	EEE	II
Harinee V T	ECE	II
Harish B	EEE	II
J. Purushothaman	IT	II
Janani.S.G	EEE	II
Keerthana S	IT	II
Khanaghalvalle G R	CSE	FACULTY
Kiran M S	AIDS	II
Kousalya R	ECE	FACULTY
M. Yuvaram	IT	II
Magesh S	ECE	III
Mohammed Faiz S	IT	II
Mohanraja C	ECE	IV
N.Mohana Priya	CSE	II
Nishadharshini N	ECE	III
Nithyashree T	ECE	II
P Arul	ECE	FACULTY
P.Mahisha	ECE	III
Poovarasi G	IT	II
Praveen Kumar R	IT	IV
Premalatha J	IT	II
Ragupathi. K	ECE	FACULTY
Rahul B	CSE	II
Rahul TV	IT	II

Rajalakshmi G	IT	II
Rashmika R S	IT	II
Rohith Kumar	IT	II
Roshan M	ECE	II
Rupakesavan	CSE	FACULTY
S Sowndarya	IT	II
S. M. Mehzabeen	ECE	FACULTY
S.R.Sai Akshaya	EEE	II
S.R.Sai Ananya	EEE	II
Samson.A	IT	III
Sanjay Kumar S	CSE	II
Santoshi.R.V	CSE	II
Sarlin Sajil S A	CSE	II
Sasidharan A	EEE	II
Shanmathi V	CSE	II
Shivabalaaji V	AUTO	II
Shivapraavinraj.K	IT	II
Shobana M	IT	III
Shreenidhi Balaji	CSE	II
Sivagnana Subramanian S.P.	ECE	FACULTY
Sivapuram Deekshitha	EEE	III
Sreevardhan B	IT	II
Sri Hari Soundar J	IT	II
Sujitha B	IT	II
Supraja S	IT	II
Swetha S	MARINE	II
T J Jeyaprabha	ECE	FACULTY
Thiwahar B	IT	II
Thulasidoss. K S	MARINE	II
Udith Mouleeshwar K	EEE	II
Varun Sah Vr	IT	II
Vasanth.S	EEE	II
Venkata Bhargav Ch S	IT	II
Vignesh GB	IT	II
Vigneshkumar V	IT	II
Vijay M	IT	II
Vikram P	IT	II
Virajeshnithin V	IT	II
Vishnu Priyan S	CSE	III

FEEDBACK FORM REPORT

NAME	DEPARTMENT	YEAR	FEEDBACK
Roshan M	ECE	C	Microcontrollers, Internet, Hardware Applications
J. Purushothaman	IT	B	Good
Harikrishnan	EEE	A	Got A Outlook Of Aot And Network Management
Keerthana S	IT	A	I Learnt Basic Iot Techniques By This Lecture..
S Sowndarya	IT	B	The Session Was Informative.
Janani.S.G	EEE	A	Learnt A Lot On Applications Of IOT And Its Industrial Applications
Hari Kishore K	EEE	A	Skills
A Tharun	IT	B	New Features Of Iot
M.Yuvaram	IT	B	Good
Shivabalaaji V	AUTO	A	Slight Information About Iot In The Industry
G Raja Vishalini	IT	B	The Importance Of Iot And Its Devices Efficiency.
Kiran M S	AIDS	A	Learnt About IOT In Industries
Rahul TV	IT	B	About Analyzing The Cost Of Making An IOT
Sujitha B	IT	B	Good
Vikram P	IT	B	Introduction About IOT
Bharath M	EEE	A	Knowledge
Shivaprinraj.K	IT	B	It Was Very Useful
Nithyashree T	ECE	B	Acquired Basics About Sensors
Agnes Rose V	ECE	A	About Lpwan
Ajay A	AIDS	A	Batter Operated Devices
Sanjay Kumar S	CSE	C	Importance Of Portable Wlan And Battery In Iot
Supraja S	IT	B	Had An Good Idea About IOT And It's Applications
Abirami.RM	EEE	A	Learnt About LORA Which Is A Wireless Communication Network Used For IOT.
Venkata Bhargav Ch S	IT	B	It Was Very Useful
Varun Sah Vr	IT	B	My Take Aways Are Like Always Stick With The Technology
Poovarasi G	IT	B	Good Information On Applications Of Iot
Vignesh GB	IT	B	Seven Meeting Takeaways Attendees Should Leave With Got Information About Topics Which Discussed
N.Mohana Priya	CSE	B	Wot

S.R.Sai Akshaya	EEE	B	Iot Is Present In Every Bits And Corners
A. Kanagavel	MARINE	A	I Can Get Some Information On Iot And The Prototypes Discussed
S.R.Sai Ananya	EEE	B	I Learnt More About Recent Trends
Thulasidoss. K S	MARINE	A	Good
Thiwahar B	IT	B	Cost Of Iot Devices And Introduced To Lora , Stm32 .
P.Shreyas Aditya	IT	B	Learnt A Lot About Iot
Santoshi.R.V	CSE	B	So Many.. I Got An Idea About What Are Gateways, How It Is Used And About Some Applications Of Iot.
Harinee V T	ECE	A	It Is Important To Think In Detail About The Feasibility Of A Project And Make Cost Cuttings By Modifying The Project Without Compromising The Product Quality.
Dakxin Shaswath Haran Y	MECHANICAL & AUTOMATION	A	Got Clear About The Basic Principles Of Iot Working
Gopika J	EEE	A	IOT Practical Application
Rahul B	CSE	B	Due To This Session,I Was Able To Know What Is Internet Of Things And Embedded System.I Got To Know About The Projects And Cost For Doing Project With Internet Of Things.Thanks For Enlightening About The Internet Of Things Through This Session
Akshaya K	CSE	A	Good
Ahilan C	EEE	A	Knowledge In Iot
Vasanth.S	EEE	B	Knowledge
Adhithiyar R	EEE	A	Knowledge
Udith Mouleeshwar K	EEE	B	The Key Take Aways Of Today's Session 1)Explanation About The Basic Working Structure Of A Iot Devices 2)Cost And Planning/Designing Of Device Structure 3)Basic Explanation About Communication Between The Standalone Device/Sensor And Cloud
Sarlin Sajil S A	CSE	B	Learned About Stm 32 Chipset
Harish B	EEE	A	No
Swetha S	MARINE	A	IOT Practical Application
Dhanush.M	EEE	A	Nil
Vijay M	IT	B	Good
Shanmathi V	CSE	C	Good Session
Shreenidhi Balaji	CSE	C	Informative Session
Premalatha J	IT	B	Good
Rajalakshmi G	IT	B	Got Many Interesting Facts In Iot From The Session

Sasidharan A	EEE	B	Learn New Things
Vigneshkumar V	IT	B	Good
Rohith Kumaar	IT	B	Internet Of Things
Sri Hari Soundar J	IT	B	Good
Akshay G	ECE	A	I Learned About The Basics Of Iot And It's Working, Classification And How To Reduce The Cost Of The Specific Project Using Advanced Hardware.
Virajeshnithin V	IT	B	Very Gud Information About Iot
Mohammed Faiz S	IT	A	How Iot Works And Its Importance
Sreevardhan B	IT	B	Good
Rashmika R S	IT	B	Informative And Learnt New Technologies

DAY – 2 - Invitation



**STTP
DAY 2**

**Satellite IoT for
Earth – Space Sustainability
& Demo on MQTT**

 **WEDNESDAY
28 FEBRUARY 2024**

 **TIME
06:15PM - 07:30PM**



Mr.Srikanth N

Director
IobIT Solutions - Bangalore

**"Connecting satellites for Earth's prosperity, IoT
in space ensures sustainability, MQTT
demonstrating unity."**



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COMPUTER SOCIETY OF INDIA - SVCE STUDENT CHAPTER

Solicit your esteemed presence for the

Industry Supported 5 Days STTP on

**“Satellite IoT for Earth- space sustainability &
demo on MQTT”**

By

Mr.Srikanth N

Director

IobiT Solutions, Bengaluru

AGENDA

- Welcome Address
- Introduction of Chief Guest
- Short Note by CSI-SVCE Student Branch Counselor
- Workshop by Mr.Srikanth N
- Vote of Thanks

COORDINATORS:

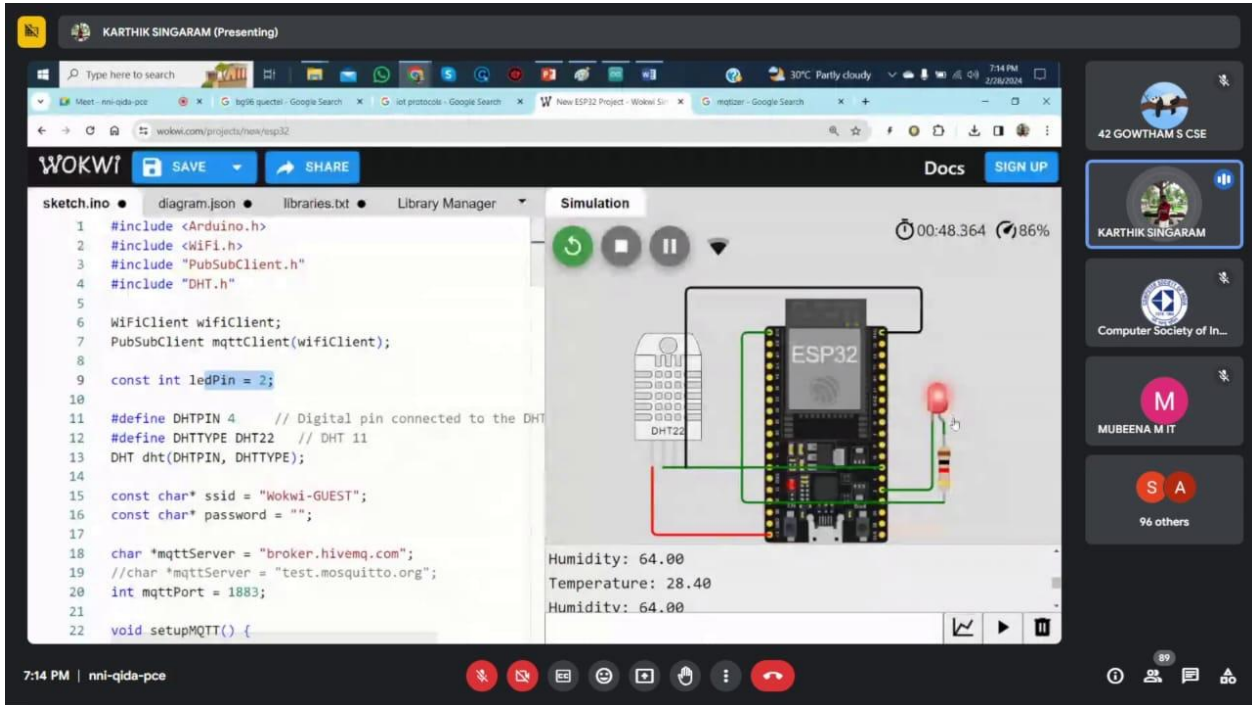
Dr. V. Vidhya - CSI-SVCE Student Branch Counselor

Mr. V. Ranjith (AP/INT)

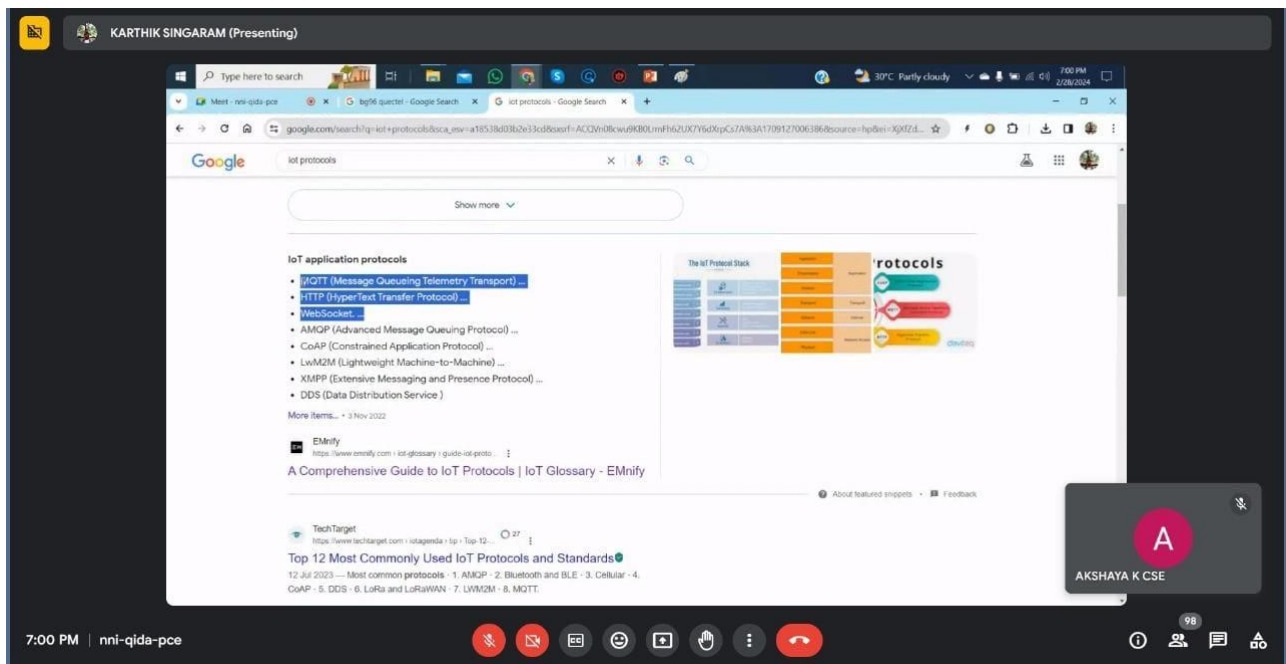
Mr. V. Praveenkumar (AP/INT)

Mr. A. Thiyagarajan(AP/INT)

EVENT SNAPS



Mr. Srikanth giving an outline on how IoT works



Students queries regarding satellite IoT

EVENT SNAPS



Connecting IoT devices everywhere

STTP

DATE: 28/02/24

TIME: 06:15 PM

OBJECTIVES:

- To acquire new skills or deepen existing ones in the domain - Satellite IoT for Earth-Space Sustainability and demonstrated MQTT.
- To stay updated with the latest trends, technologies and practices in that respective field .

ABOUT THE PROGRAMME:

The second day of the STTP was led by **Mr. Srikanth N**, Director of IobiT Solutions, Bangalore. He presented on the topic of “**Satellite IoT for Earth-Space Sustainability and demonstrated MQTT**”. Mr. Srikanth N started the session by answering a participant's question on how machines are interconnected, using a video about an energy meter as an example. He further explained the two types of gateways used in IoT Indoor Gateway and Outdoor Gateway. He also discussed various sensors such as door sensors, lux sensors, fire and smoke sensors, and their efficient use. He highlighted the use of RFID for entry and exit monitoring, ensuring authorized access. He concluded that all these machines are connected via LoRa communication. Mr.Srikanth N then delved into the communication antennas used, including terrestrial and space antennas. He showcased their custom-made circuit board, housed inside a box with a top layer covered with an IP67 enclosure. The use of IP67 was justified as it houses a GPS for position calculation and needs to be placed outside, requiring protection from environmental factors.He also demonstrated the Lacuna Dashboard, where details about satellites are provided. He introduced NB IoT devices, built to deliver low-cost ownership, and explained the launch of their first nanosatellite. He also gave a brief explanation about the mobile app "Matizer" and its working.The day concluded with an interactive session where participants asked their doubts. Questions ranged from the integration of this technology for educational purposes to the latest technologies used in IoT. Feedback forms were shared with all participants for their valuable input. **Praneesh V K, executive member of CSI**, extended a warm welcome at the beginning of the event and concluded the day with a vote of thanks and a brief overview of the upcoming session.The STTP was a grand success, providing a comprehensive understanding of IoT and Quantum Computing.

OUTCOME OF THE PROGRAMME:.

- The program served as an effective platform for students to gain in-depth knowledge about IoT and Quantum Computing.
- The participants were introduced to various aspects of these fields, including LPWAN, battery-operated devices in IoT, Satellite IoT, and MQTT.

ATTENDANCE REPORT

Total no of students	II	III	IV
	64	8	1
Total no of faculty	13		

Day 2- Invitation

NAME	DEPARTMENT	YEAR
Ajay A	AIDS	II
Kiran M S	AIDS	II
Nataraj R	AUTO	II
P. Arul	ECE	FACULTY
Shivabalaaji V	AUTO	II
Akshaya K	CSE	II
N S Sudarshan	CSE	II
N.Mohana Priya	CSE	II
Arulkumar Muniyappan	MECH	FACULTY
Rahul B	CSE	II
Sanjay Kumar S	CSE	II
Santoshi.R.V	CSE	II
Sarlin Sajil S A	CSE	II
Sb Ajjay Sabari	CSE	II
Ragupathi.K	ECE	FACULTY
Shanmathi V	CSE	II
Vishnu Priyan S	CSE	III
A. Dharani	ECE	III
Dr.T.SENTHILNATHAN	APH	FACULTY
Jeevitha K	ECE	III
Magdalene Roy R	ECE	III
Magesh S	ECE	III
Mohanraja C	ECE	IV
Nishadharshini N	ECE	III
Nithyashree T	ECE	II
RUPA Kesavan	CSE	FACULTY
P.Mahisha	ECE	III
Balaji Vignesh L K	ECE	FACULTY
Prabakaran R	ECE	II
Roshan M	ECE	II
Vikaash B G	ECE	II
Abirami Rm	EEE	II
S. M. Mehzabeen	ECE	FACULTY
Adhithiyar R	EEE	II
Ahilar C	EEE	II
Dr.V.Rajalakshmi	CSE	FACULTY
Bharath M	EEE	II
Dhanush.M	EEE	II
Gopika J	EEE	II
Kousalya R	ECE	FACULTY
Hari Kishore K	EEE	II
Harikrishnan S	EEE	II

Harish B	EEE	II
Janani. S. G	EEE	II
Kanishkarkumar.P	EEE	II
S.R.Sai Akshaya	EEE	II
S.R.Sai Ananya	EEE	II
B. Sarala	ECE	FACULTY
Sivapuram Deekshitha	EEE	II
Tharun Balaji G	EEE	III
Vasanth.S	EEE	II
A Santhosh	IT	II
Dr R Jayabhaduri	CSE	FACULTY
A Tharun	IT	II
Dheekshitha.R	IT	II
G Raja Vishalini	IT	II
Gagana Deepika D	IT	II
Harini E	IT	II
J Sanjeevkumar	IT	II
J. Purushothaman	IT	II
Keerthana S	IT	II
T J Jeyaprabha	ECE	FACULTY
M. Yuvaram	IT	II
Mohammed Faiz S	IT	II
Mubeena M	IT	II
Naresh B	IT	II
P.Shreyas Aditya	IT	II
Poovarasi G	IT	II
Rahul TV	IT	II
Rashmika R S	IT	II
Rohith Kumaar	IT	II
Dr.M.K.Sandhya	CSE	FACULTY
S Sowndarya	IT	II
Sarvesh M	IT	II
Shiva Pravinraj.J.K	IT	II
Siddharth K	IT	II
Sujitha B	IT	II
Supraja S	IT	II
Thiwahar.B	IT	II
Varun Sah VR	IT	II
Venkata Bhargav Ch S	IT	II
Vignesh GB	IT	II
Vigneshkumar V	IT	II
Vikram P	IT	II
A. Kanagavel	MARINE	II
Thulasidoss	MARINE	II

FEEDBACK FORM REPORT

NAME	DEPARTMENT	YEAR	FEEDBACK
Ajay A	AIDS	II	How IoT works
Kiran M S	AIDS	II	Learnt more about Iot
Nataraj R	AUTO	II	Heee
Shivabaalaji V	AUTO	II	IoT in Satellites for weather prediction.
Akshaya K	CSE	II	Good
N S Sudarshan	CSE	II	Satellite connection and MQTT
N.Mohana Priya	CSE	II	Lora node
Sanjay Kumar S	CSE	II	Space Sustainability and MQTT in Real Life Problems
Santoshi.R.V	CSE	II	About the hardwares included.
Sarlin Sajil S A	CSE	II	MQTT Platforms
SB Ajjay Sabari	CSE	II	Informative Knowledge
Shanmathi V	CSE	II	Good session
Vishnu priyan S	CSE	III	Good
A. Dharani	ECE	III	Learned about the satellite communication and mqtt protocol very well.
Jeevitha K	ECE	III	Mqtt - theory and simulation based learning in specific a new one mqttizer
Magdalene Roy R	ECE	III	The uplink and downlink model how to design it.
Magesh S	ECE	III	About new technologies, usage of MQTT Protocol in daily life
Mohanraja C	ECE	IV	About LoRaWanProducts(Different sensors) , satellite communication and MQTT protocol
Nishadharshini N	ECE	III	Learnt relevant
Nithyashree T	ECE	II	Application of iot
P.Mahisha	ECE	III	Got more information
Prabakaran R	ECE	II	Knowledge
Roshan M	ECE	II	ESP 32 integration, Satellite iot integration
Vikaash B G	ECE	II	Data publishing and topic using trail cloud.
Abirami RM	EEE	II	About Iot application
Adhithiyan R	EEE	II	Knowledge
Ahilan C	EEE	II	Knowledge and informtion

Bharath M	EEE	II	Knowledge
Dhanush.M	EEE	II	more about IOT products
Gopika J	EEE	II	Learnt more about iot,got more applications
Hari Kishore K	EEE	II	Skills
Harikrishnan S	EEE	II	Got great Knowledge
Harish B	EEE	II	Nothing
Janani. S. G	EEE	II	Learnt more about satellite IOT. Got to know many applications
Kanishkarkumar.P	EEE	II	Good
S.R.Sai Akshaya	EEE	II	Knowledge abt sensor
S.R.Sai Ananya	EEE	II	Good
Sivapuram Deekshitha	EEE	II	Good
Tharun balaji G	EEE	III	Usage of MQTT
Vasanth.S	EEE	II	Knowledge
A Santhosh	IT	II	Better understandings about iot devices
A Tharun	IT	II	New ideas
Dheekshitha.R	IT	II	Learnt about microcontroller. sensor and its efficiency in IT industry
G Raja Vishalini	IT	II	To develop IOT project
Gagana Deepika D	IT	II	learnt more about satellite iot,got many applications
Harini E	IT	II	It helped me understand a lot about how the programming part of the microcontroller works
J sanjeevkumar	IT	II	I like the section&its very interesting
J. Purushothaman	IT	II	I learnt how to integrate hardware (especially microcontroller) with software through stimulator.
Keerthana S	IT	II	Good
M.Yuvaram	IT	II	About iot
Mohammed Faiz S	IT	II	learnt more about satellite iot,got many applications
Mubeena M	IT	II	learnt more about satellite iot,got many applications
Naresh B	IT	II	Cloud computing
P.Shreyas Aditya	IT	II	Informative
Poovarasi G	IT	II	Uplinking and downlinking of data
Rahul TV	IT	II	Product development has n number of knowledge gaining...
Rashmika R S	IT	II	About the IOT
RohiTh Kumaar	IT	II	the session was informative.
S Sowndarya	IT	II	Good
Sarvesh M	IT	II	Very informative
Shiva pravinraj.j.k	IT	II	

Siddharth K	IT	II	Good
Sujitha B	IT	II	Good
Supraja S	IT	II	It was an useful session.Gained knowledge about applications in IOT
Thiwahar.B	IT	II	Understanding about advanced IOT devices
Varun sah VR	IT	II	To be always a learner in technology
Venkata Bhargav CH S	IT	II	Good
Vignesh GB	IT	II	Got Information about the topic discussed
Vigneshkumar V	IT	II	Good
Vikram p	IT	II	lot in deep
A. Kanagavel	MARINE	II	I gained information on satellite related info
Thulasidoss	MARINE	II	Good

DAY - 3 - Invitation



**STTP
DAY 3**

**IoT Data Analysis using
Deep Learning.**



**WEDNESDAY
29 FEBRUARY 2024**



**TIME
06:15PM - 07:30PM**



Dr S. NAGARAJU

Associate Professor- Computer Science,
Pondicherry University

**"Analyzing IoT data with deep learning is like
mining gold from a digital river."**



SRI VENKATESWARA COLLEGE OF ENGINEERING
(Autonomous, Affiliated to Anna University)
Pennalur, Sriperumbudur-602117

COMPUTER SOCIETY OF INDIA - SVCE STUDENT CHAPTER

Solicit your esteemed presence for the

Industry Supported 5 Days STTP on

“IoT Data analysis using deep learning”

By

Dr. S. Nagaraju

Associate Professor- Computer Science
Pondicherry University

AGENDA

- Welcome Address
- Introduction of Chief Guest
- Short Note by CSI-SVCE Student Branch Counselor
- Workshop by Dr.S.Nagaraju
- Vote of Thanks

COORDINATORS:

Dr. V. Vidhya - CSI-SVCE Student Branch Counselor

Mr. V. Ranjith (AP/INT)

Mr. V. Praveenkumar (AP/INT)

Mr. A. Thiyagarajan (AP/INT)

EVENT SNAPS

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide with the Pondicherry University logo at the top. The slide title is "Cloud-Enabled LoRaWAN IoT Data Analysis using Deep Learning" in red text. Below the title, it identifies the presenter as "Dr.S.Nagaraju, Associate Professor, Department of Computer Science, Pondicherry University". The right sidebar shows a list of participants, including "42 GOWTHAM S CSE", "RANJITH V I T", "HOD IT", and "ABOUT NAGARAJU" (who is currently presenting). The bottom status bar shows the time as 6:37 PM and the meeting ID as gdz-ymxc-cvk.

Dr.S.Nagaraju giving an introduction to data analysis using deep learning

The screenshot shows a Zoom meeting interface. The main window displays a presentation slide titled "LoRaWAN Architecture". The diagram illustrates the architecture with four main components: "End Nodes", "Concentrator /Gateway", "Network Server", and "Application Server". The "End Nodes" section includes icons for pet tracking, smoke alarm, water meter, trash container, vending machine, and gas monitoring. These nodes are connected to the "Concentrator /Gateway" (represented by three gateway icons). The gateway is connected to the "Network Server" (represented by a cloud icon with a server rack) via "3G/ Ethernet Backhaul". The "Network Server" is then connected to the "Application Server" (represented by three server rack icons). The right sidebar shows the same list of participants as the previous screenshot. The bottom status bar shows the time as 6:59 PM and the meeting ID as gdz-ymxc-cvk.

Dr. S. Nagaraju quering LoRa WAN Architecture

EVENT SNAPS

The screenshot shows a Zoom meeting interface. At the top, the meeting title is 'SABOUT NAGARAJU (Presenting)'. The main content is a presentation slide titled 'Cloud-enabled IoT Architectures'. The slide is divided into two main sections: 'Existing' and 'Emerging Technology'. Under 'Existing', there are three diagrams: 'Direct Integration Pattern' (Thing connected to Cloud via MQTT), 'Gateway Integration Pattern' (Things connected to a Gateway, which is connected to Cloud via MQTT), and 'Cloud Integration Pattern' (Things connected to Cloud via MQTT). Under 'Emerging Technology', there is a diagram for 'Things Framework' showing 'Things Gateway' connected to 'Things Cloud' and 'Things Framework'.

6:46 PM | gdz-yxmc-cvk

Explanation of Cloud enabled IoT Architectures

STTP

DATE: 29/02/24

TIME: 6:15 PM

OBJECTIVES:

- To acquire new skills or deepen existing ones in the domain - IoT data analysis using deep learning .
- To stay updated with the latest trends, technologies and practices in that respective field

ABOUT THE PROGRAMME:

The Computer Society of India - SVCE Student Chapter organized a Industry supported 5 days STTP on “**Recent trends and applications in IoT**”with the third day featuring **Dr.S.Nagaraju**, Associate Professor, Pondicherry University, leading the session on the topic “**IoT data analysis using deep learning**”. The event commenced with welcome and introductory addresses by Akshaya K, **Joint Secretary- CSI**, providing an overview of the esteemed guest, Dr.S.Nagaraju. He delivered an enlightening discourse on “**Cloud enabled LoRaWAN IoT data analysis**”, shedding light on his project focusing on developing an identity and trustworthy monitoring system for ensuring the quality of smart city services utilizing IoT cloud based AI. During his presentation, Dr.S.Nagaraju elucidated various aspects including cloud computing applications, top cloud computing providers, IoT applications, cloud-enabled IoT architectures, sensor parameters, data transmission to the cloud, Low power wide area network(LoRaWAN) features and architecture, and deep learning based IoT data analysis. Finally, the session concluded with a vote of thanks delivered by **Akshaya K, Joint Secretary of CSI**. The event was highly interactive and successful, attributed to the collaborative efforts of CSI office bearers and concerned faculties.

OUTCOME OF THE PROGRAMME:.

- The speaker gave insights about the necessary skill sets that are predicted to be explored in the future.
- The program served as an effective platform for students to gain knowledge about cloud computing , IoT and LoRaWAN .

ATTENDANCE REPORT

Total no of students	II	III	IV
	68	7	1
Total no of faculty	11		

Day 3- Attendance

Name	Department	Year
A Tharun	IT	II
A. Dharani	ECE	III
A. Kanagavel	MARINE	II
Abirami.Rm	EEE	II
Adhithiyan R	EEE	II
Ahilan C	EEE	II
Ajay A	AIDS	III
Ajjay Sabari Sb	CSE	II
Akshay G	ECE	II
Balaji Vignesh L K	ECE	FACULTY
Bharath M	EEE	II
Dhanush.M	EEE	II
Dheekshitha.R	IT	II
Dr R Jayabhaduri	CSE	FACULTY
Dr.M.K.Sandhya	CSE	FACULTY
Dr.R.Gayathri	ECE	FACULTY
G Raja Vishalini	IT	II
Gagana Deepika D	IT	II
Girish	BIO-TECH	III
Gopika J	EEE	II
Harikrishnan S	EEE	II
Harinee V T	ECE	II
Harini E	IT	II
Harish B	EEE	II
J. Purushothaman	IT	II
Kanishkarkumar.P	EEE	II
Keerthana.S	IT	II
Khanaghavalle G R	CSE	FACULTY
Kiran M S	AIDS	II
Kousalya R	ECE	FACULTY
M.Yuvaram	IT	II
Magdalene Roy R	ECE	III
Magesh S	ECE	III
Mohammed Faiz	IT	II
Mohanraja C	ECE	IV
Mubeena M	IT	II
N S Sudarshan	CSE	II
N.Mohana Priya	CSE	II
N.T.Venugobal	IT	II
Naresh Barath	IT	II
Nishadharshini N	ECE	III
Nithyashree T	ECE	II

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P. Arul	ECE	FACULTY
P.Shreyas Aditya	IT	II
Prabakaran R	ECE	II
Priya Lakshmi S V	IT	II
Ragupathi.K	ECE	FACULTY
Rahul B	CSE	II
Rahul TV	IT	II
Rajalakshmi G	IT	II
Rashmika R S	IT	II
Rohith Kumaar P	IT	II
Roshan M	ECE	II
Rupa Kesavan	CSE	FACULTY
S Sowndarya	IT	II
S. M. Mehzabeen	ECE	FACULTY
S. S. Prazilkar	IT	II
S.R.Sai Akshaya	EEE	II
S.R.Sai Ananya	EEE	II
Sanjay Kumar S	CSE	II
Santhosh.A	IT	II
Santoshi.R.V	CSE	II
Sarlin Sajil S A	CSE	II
Sarvesh	IT	II
Shanmathi V	CSE	II
Shivabalaaji V	AUTO	II
Shobana M	IT	II
Shreenidhi Balaji	CSE	II
Siddharth K	IT	II
Sivagnana Subramanian S.P.	ECE	FACULTY
Sivapuram Deekshitha	EEE	II
Sreevardhan B	IT	II
Sri Hari Soundar J	IT	II
Sriram	IT	II
Sujitha B	IT	II
Swetha S	MARINE	II
Thiwahar.B	IT	II
Thulasidoss Ks	MARINE	II
Varunsah VR	IT	II
Vasanth.S	EEE	II
Venkata Bhargav Ch S	IT	II
Vigneshkumar V	IT	II
Vikram P	IT	II
Vinodhkanna	IT	II
Virajeshnithin V	IT	II
Vishnu	IT	II
Vishnu Priyan S	CSE	III

FEEDBACK FORM REPORT

NAME	DEPARTMENT	YEAR	FEEDBACK
Ajay A	AIDS	II	How IoT works
Kiran M S	AIDS	II	Learnt more about Iot
Nataraj R	AUTO	II	Heee
Shivabaajali V	AUTO	II	IoT in Satellites for weather prediction.
Akshaya K	CSE	II	Good
N S Sudarshan	CSE	II	Satellite connection and MQTT
N.Mohana Priya	CSE	II	Lora node
			The video that explained about the how the IOT is connected everywhere was helpful for understand about the topic easily. The development of satellites for gathering data in IOT was very interesting .Thank you for this session.It was interesting.
Rahul B	CSE	II	
Sanjay Kumar S	CSE	II	Space Sustainability and MQTT in Real Life Problems
Santoshi.R.V	CSE	II	About the hardwares included.
Sarlin Sajil S A	CSE	II	MQTT Platforms
SBAjjay Sabari	CSE	II	Informative Knowledge
Shanmathi V	CSE	II	Good session
Vishnu priyan S	CSE	III	Good
			Learned about the satellite communication and mqtt protocol very well.
A. Dharani	ECE	III	
Jeevitha K	ECE	III	Mqtt - theory and simulation based learning in specific a new one mqttizer
Magdalene Roy R	ECE	III	The uplink and downlink model how to design it.
Magesh S	ECE	III	About new technologies, usage of MQTT Protocol in daily life
			About LoRaWanProducts(Different sensors) , satellite communication and MQTT protocol
Mohanraja C	ECE	IV	
Nishadharshini N	ECE	III	Learnt relevant

Nithyashree T	ECE	II	Application of iot
P.Mahisha	ECE	III	Got more information
Prabakaran R	ECE	II	Knowledge
Roshan M	ECE	II	ESP 32 integration, Satellite iot integration
Vikaash B G	ECE	II	Data publishing and topic using trail cloud.
Abirami RM	EEE	II	About Iot application
Adhithiyan R	EEE	II	Knowledge
Ahilan C	EEE	II	Knowledge and informtion
Bharath M	EEE	II	Knowledge
Dhanush.M	EEE	II	more about IOT products
Gopika J	EEE	II	Learnt more about iot,got more applications
Hari Kishore K	EEE	II	Skills
Harikrishnan S	EEE	II	Got great Knowledge
Harish B	EEE	II	Nothing
Janani. S. G	EEE	II	Learnt more about satellite IOT. Got to know many applications
Kanishkarkumar.P	EEE	II	Good
S.R.Sai Akshaya	EEE	II	Knowledge abt sensor
S.R.Sai Ananya	EEE	II	Good
Sivapuram Deekshitha	EEE	II	Good
Tharun balaji G	EEE	III	Usage of MQTT
Vasanth.S	EEE	II	Knowledge
A Santhosh	IT	II	Better understandings about iot devices
A Tharun	IT	II	New ideas
Dheekshitha.R	IT	II	Learnt about microcontroller. sensor and its efficiency in IT industry
G Raja Vishalini	IT	II	To develop IOT project
Gagana Deepika D	IT	II	learnt more about satellite iot,got many applications
Harini E	IT	II	It helped me understand a lot about how the programming part of the microcontroller works
J Sanjeev kumar	IT	II	I like the section&its very interesting
J. Purushothaman	IT	II	I learnt how to integrate hardware (especially microcontroller) with software
Keerthana S	IT	II	


			through stimulator.
M.Yuvaram	IT	II	Good
Mohammed Faiz S	IT	II	About iot
Mubeena M	IT	II	learnt more about satellite iot,got many applications
Naresh B	IT	II	learnt more about satellite iot,got many applications
P.Shreyas Aditya	IT	II	Cloud computing
Poovarasi G	IT	II	Informative
Rahul TV	IT	II	Uplinking and downlinking of data
Rashmika R S	IT	II	Product development has n number of knowledge gaining...
RohiTh Kumaar	IT	II	About the IOT
S Sowndarya	IT	II	the session was informative.
Sarvesh M	IT	II	Good
Shiva pravinraj.j.k	IT	II	Very informative
Siddharth K	IT	II	Good
Sujitha B	IT	II	Good
Supraja S	IT	II	It was an useful session.Gained knowledge about applications in IOT
Thiwahar.B	IT	II	Understanding about advanced IOT devices
Varun sah VR	IT	II	To be always a learner in technology
VenkataBharagv CH S	IT	II	Good
Vignesh GB	IT	II	Got Information about the topic discussed
Vigneshkumar V	IT	II	Good
Vikram p	IT	II	Iot in deep
A. Kanagavel	MARINE	II	I gained information on satellite related info
Thulasidoss	MARINE	II	Good

DAY - 4 - Invitation



**STTP
DAY 4**

**AI's role in Industrial
Transformation**

 **WEDNESDAY**
01 MARCH 2024

 **TIME**
06:15PM - 07:30PM



Dr PATRICK

Technical Consultant
Academic Researcher

"Embrace AI's innovation, fueling industrial
transformation's fruition."



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COMPUTER SOCIETY OF INDIA - SVCE STUDENT CHAPTER

Solicit your esteemed presence for the

Industry Supported 5 Days STTP on

“AI ‘S role in industrial transformation”

By

Dr. Patrick

Technical consultant
Academic researcher

AGENDA

- Welcome Address
- Introduction of Chief Guest
- Short Note by CSI-SVCE Student Branch Counselor
- Workshop by Dr.Patrick
- Vote of Thanks

COORDINATORS:

Dr. V. Vidhya - CSI-SVCE Student Branch Counselor

Mr. V. Ranjith (AP/INT)

Mr. V. Praveenkumar (AP/INT)

Mr. A. Thiyagarajan (AP/INT)

EVENT SNAPS

Top AI Use Cases

Customer Experience

Supply chain

Human Resources

Fraud Detection

Knowledge Creation

Research & Development

Predictive Analytics

Real-time Operations Management

Customer Services

Risk Management & Analytics

Customer Insight

Pricing & Promotion

6:42 PM | kti-sbho-tgj

Explanation of Top use cases of AI

Computer Vision

- Provides visual inspections that requires speed and accuracy in detecting microscopic defects
- Example: Audi used an AI vision system to identify cracks in the sheet metal from its press shop.

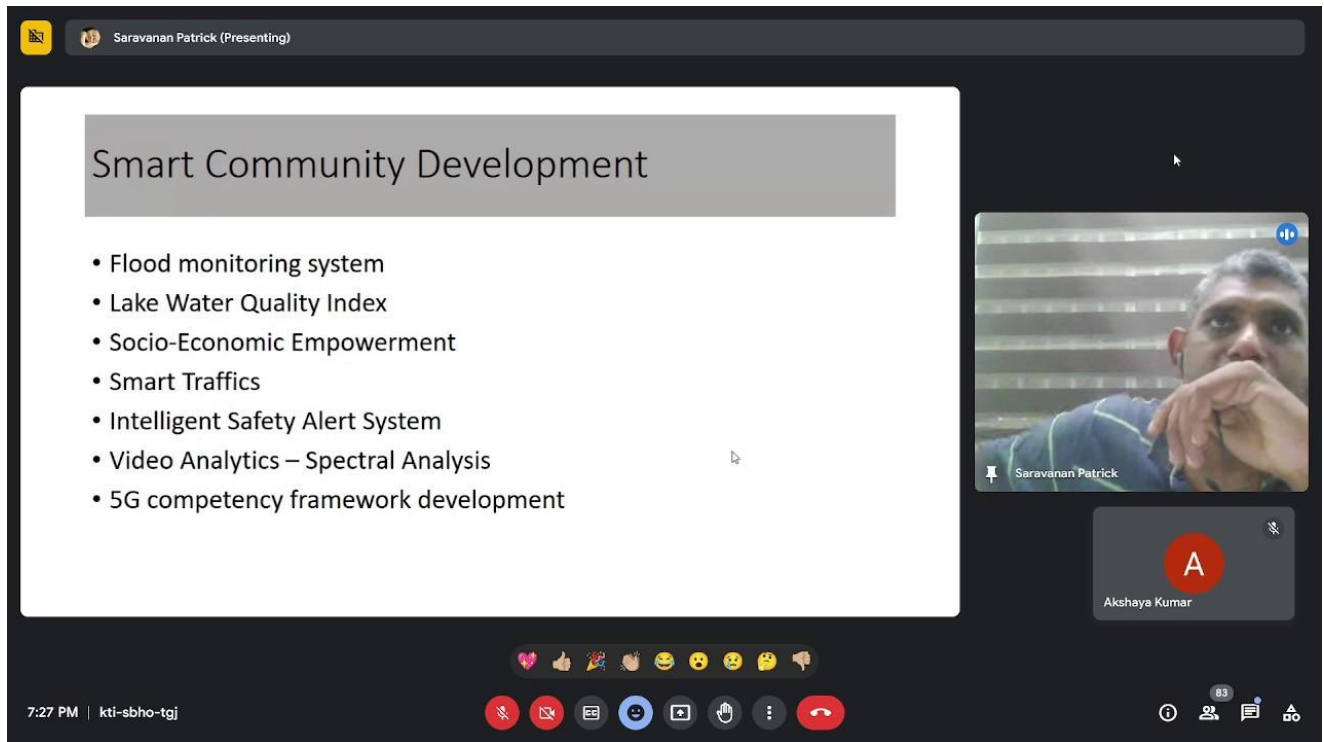
Usage of Deep Learning that is often applied to large, unstructured data sets, such as images. Evaluation of captured image with image recognition software, where it detects the finest cracks in sheet metal with the utmost precision and reliably marks the spot.

(a) (b) (c)

6:59 PM | kti-sbho-tgj

Dr.Patrick explaining about computer vision

EVENT SNAPS



The screenshot shows a Zoom meeting interface. At the top, the name 'Saravanan Patrick (Presenting)' is visible. The main content is a presentation slide with the title 'Smart Community Development' and a bulleted list of topics. To the right, there is a video feed of Saravanan Patrick, who is resting his chin on his hand. Below the video feed is a profile card for Akshaya Kumar. At the bottom, there is a toolbar with various icons for chat, mute, video, and other meeting controls. The time '7:27 PM' and the meeting ID 'kti-sbho-tgj' are also visible.

Smart Community Development

- Flood monitoring system
- Lake Water Quality Index
- Socio-Economic Empowerment
- Smart Traffics
- Intelligent Safety Alert System
- Video Analytics – Spectral Analysis
- 5G competency framework development

7:27 PM | kti-sbho-tgj

Discussion about Smart community development

STTP

DATE: 01/03/24

TIME: 6:15 PM

OBJECTIVES:

- To acquire new skills or deepen existing ones in the domain – AI’s role in industrial transformation
- To stay updated with the latest trends, technologies and practices in that respective field

ABOUT THE PROGRAMME:

The Computer Society of India - SVCE Student Chapter orchestrated a transformative Industry supported 5 days STTP centered on “**Recent trends and applications in IoT**”. Day four highlighted the erudite Dr **Patrick**, Technical Consultant, Academic researcher leading a compelling session on the topic “**AI’s role in industrial transformation**”. Dr.**V.Vidhya**, the **Student Branch Counselor** of CSI, commenced the proceedings with a reflective introduction, underscoring the accomplishments of the chief guest. The event unfolded with a warm welcome and comprehensive introduction by **Vishal Athreya E, Executive member of CSI**, who provided an overview of the esteemed guest, **Dr. Patrick**. Dr. Patrick captivated the audience with his enlightening talk, delving into crucial aspects of IoT such as AI use cases where discussed individually about each topic like self driving cars, disease mapping etc.. Furthermore, **Dr Patrick** provided invaluable insights into what Predictive analysis is, maintenance of predictive analysis, Robots used in industries, computer vision, digital twins, edge analytics, generative design and also about E-commerce and retail, food technology, banking and financial services, real estate, entertainment and gaming, smart manufacturing, predisposition, integrating AI. At last, he shared about his practical experiences in AI & smart community development. The event reached its end with a gracious vote of thanks delivered by **Vishal Athreya E**, marking a harmonious blend of erudition and engagement. The event was highly interactive and successful, attributed to the collaborative efforts of CSI office bearers and concerned faculties.

OUTCOME OF THE PROGRAMME:

- The speaker gave insights about the necessary skill sets that are predicted to be explored in the future.
- The program served as an effective platform for learning.

ATTENDANCE REPORT

Total no of students	II	III
	71	8
Total no of faculty	17	

NAME	DEPARTMENT	YEAR
A THARUN	IT	II
A. Dharani	ECE	III
A.KANAGAVEL	MARINE	II
A.santhosh	IT	II
ABIRAMI.RM	EEE	II
Adhithyan R	EEE	II
AHILAN C	EEE	II
Ajay A	AIDS	II
Akshay G	ECE	II
ARULKUMAR MUNIYAPPAN	MECH	FACULTY
BALAJI VIGNESH L K	ECE	FACULTY
BHARATH M	EEE	II
DHANUSH.M	EEE	II
Dheekshitha.R	IT	II
Dr R Jayabhaduri	CSE	FACULTY
Dr. D. Jayanthi	IT	FACULTY
Dr. V. Rajalakshmi	CSE	FACULTY
Dr.Mkavitha	ECE	FACULTY
Dr.M.Bindhu	ECE	FACULTY
Dr.M.K.Sandhya	CSE	FACULTY
Dr.T.Senthilnathan	Applied Physics	FACULTY
G RAJA VISHALINI	IT	II
Gagana Deepika D	IT	II
Girish	BIO-TECH	III
Gokulakrishnan G	CSE	II
Gopika J	EEE	II
Hari Kishore K	EEE	II
Harikrishnan S	EEE	II
Harini E	IT	II
Harish B	EEE	II
J.Purushothaman	IT	II
Janani. S. G	EEE	II
Jeevitha K	ECE	III
Kanishkarkumar.P	EEE	II
Keerthana.S	IT	II
KIRAN M S	AIDS	II
Kousalya R	ECE	FACULTY
M.YUVARAM	IT	II
Magdalene Roy R	ECE	III
MAGESH S	ECE	III
Mohammed Faiz	IT	II
Mubeena M	IT	II

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N S SUDARSHAN	CSE	II
N.Mohana Priya	CSE	II
N.T. VENUGOBAL	IT	II
Naresh B	IT	II
NATARAJ R	AUTO	II
Nishadharshini N	ECE	III
Nithyashree T	ECE	II
P.ARUL	ECE	FACULTY
P.MAHISHA	ECE	III
P.Shreyas Aditya	IT	II
POOVARASI G	IT	II
PRABAKARAN R	ECE	II
Premalatha J	IT	II
Priya Lakshmi S V	IT	II
RAGUPATHI.K	ECE	FACULTY
Rahul B	CSE	II
RAJALAKSHMI G	IT	II
RASHMIKA R S	IT	II
RohiTh Kumaar	IT	II
S M Abinaya	ECE	FACULTY
S SOWNDARYA	IT	II
S. M. Mehzabeen	ECE	FACULTY
S. S. Prazilkar	IT	II
S.R.SAI AKSHAYA	EEE	II
S.R.SAI ANANYA	EEE	II
Sanjay Kumar S	CSE	II
Sanjay Ram.D	IT	II
Santoshi.R.V	CSE	II
Sarlin Sajil S A	CSE	II
Sarvesh M	IT	II
Sasidharan A	EEE	II
Sathyajitanand v	IT	II
SB AJJAY SABARI	CSE	II
SHANMATHI V	CSE	II
SHIVABAALAJI V	AUTO	II
SHREENIDHI BALAJI	CSE	II
SIDDHARTH K	IT	II
Silambarasan D	ECE	FACULTY
SIVAGNANA SUBRAMANIAN S.P.	ECE	FACULTY
Sivapuram Deekshitha	EEE	II
Sriram K	IT	II
SUJITHA B	IT	II
Supraja S	IT	II
Swetha s	MARINE	II
T J Jeyaprabha	ECE	FACULTY

Thiwahar B	IT	II
THULASIDOSS KS	MARINE	II
Vasanth.S	EEE	II
VENKATA BHARGAV CH S	IT	II
VIGNESHKUMAR V	IT	II
Vikram p	IT	II
Virajeshnithin V	IT	II
Vishnu priyan S	CSE	III
VISHWA TILAK KUMAR E	AUTO	II

FEEDBACK FORM REPORT

NAME	DEPARTMENT	YEAR	FEEDBACK
------	------------	------	----------

Roshan M	ECE	II	Microcontrollers, internet, hardware applications
J Purushothaman	IT	II	Good
Harikrishnan	EEE	II	Got a outlook of IoT and network management
Keerthana S	IT	II	I learnt basic IoT techniques by this lecture
Sowndarya S	IT	II	The session was informative
Mahisha P	ECE	III	Importance of interconnected devices, data analytics
Janani S G	EEE	II	Learnt a lot on application of IoT and its industrial applications
Magesh S	ECE	III	Sustainability in inventions
Hari Kishore K	EEE	II	Skills
Tharun A	IT	II	New features of IoT
Praveen Kumar R	IT	IV	Learned about the IoT devices and the connections
Yuvaram M	IT	II	Good
Shivabaalaji V	AUTO	II	Slight information about IoT in the industry
Raja Vishalini G	IT	II	The importance of IoT and its device efficiency
Sivapuram Deekshitha	EEE	III	Good
Kiran M S	AIDS	II	Learnt about IoT in industries
Rahul T V	IT	II	About analyzing the cost of making an IoT
Sujitha B	IT	II	Good

Vikram P	IT	II	Introduction about IoT
Bharath M	EEE	II	Knowledge
Shivapraavinraj J K	IT	II	It was very useful
Mohanaraja C	ECE	IV	Difference between the types of integration and its pros and cons
Nithyashree T	ECE	II	Acquired basics about sensors
Agnes Rose V	ECE	II	About LPWAN
Ajay A	AIDS	II	Battery operated devices
Sanjay Kumar s	CSE	II	Importance of portable WLAN and battery in IoT
Supraja s	IT	II	Had a good idea about IoT and its applications
Nishadharshini N	ECE	III	Gained some extra knowledge
Abirami R M	EEE	II	Learnt about LORA which is a wireless communication network used for IoT
Venkata Bhargav CH S	IT	II	Good
Varun Sah VR	IT	II	Stick with technology
Poovarasi G	IT	II	Good information on applications of IoT
Vignesh GB	IT	II	Got information
N.Mohana Priya	CSE	II	Good
S R Sai Akshaya	EEE	II	IoT is present in every bits and corners
A Kanagavel	MARINE	II	I can get some information on IoT and the prototypes discussed
S R Sai Ananya	EEE	II	Learnt about recent trends
Thulasidoss K S	MARINE	II	Good
Thiwahar B	IT	II	Cost of IoT devices and

			introduced to LORA,STM32
P Shreyas Aditya	IT	II	Learnt a lot about IoT
Santhoshi R V	CSE	II	Applications of IoT
Samson A	IT	III	Good

DAY - 5 - Invitation



STTP DAY 5

Predictive Analytics for the
Internet of things

 **MONDAY**
04 MARCH 2024

 **TIME**
06:15PM - 07:30PM



Dr Supriya M

Associate Professor, School of
Computing, Bengaluru
Vice-Chairperson

"Predictive analytics serves as the compass guiding us
through the sea of data, illuminating the path to informed
decisions and prosperous outcomes."



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COMPUTER SOCIETY OF INDIA - SVCE STUDENT CHAPTER

Solicit your esteemed presence for the

Industry Supported 5 Days STTP on

“Predictive Analysis for the Internet of Things”

By

Dr.Supriya M

Associate Professor,
Vice-Chairperson
School of Computing, Bengaluru

AGENDA

- Welcome Address
- Introduction of Chief Guest
- Short Note by CSI-SVCE Student Branch Counselor
- Workshop by Dr Supriya M
- Vote of Thanks

COORDINATORS:

Dr. V. Vidhya - CSI-SVCE Student Branch Counselor

Mr. V. Ranjith (AP/INT)

Mr. V. Praveenkumar (AP/INT)

Mr. A. Thiyagarajan (AP/INT)

EVENT SNAPS

Supriya M (Presenting)

What is IoT Analytics?

IoT analytics is the analytics platform that can assess the data collected from IoT devices.

Source: Competing on Analytics by Thomas H. Davenport & Jeanne G. Harris

Computer Society of India SV...

7:22 PM | rof-kucp-cfy

Dr. Supriya M discussing about the IoT Analytics

Supriya M (Presenting)

Challenges in IoT Analytics

- Data quality issues – missing data, corrupted data, data consistency
- Missing data may be due to genuine reasons like power failure, windstorms
- Recency bias in datasets – like new devices may communicate smarterly than other devices
- Many companies are struggling to find value with IoT data. According to McKinsey & Company, a consulting agency, less than 1% of data generated by an oil platform was used for decision making purposes
- The business value challenge is how to keep costs low while increasing the ability to create superior financial returns. **Analytics is a great way to get there...**

When time is recorded for an event, such as a parking spot being vacated, it is essential for analytics that the time is as close to the actual occurrence as possible. the time available for analytics can be the time the event occurred, the time the IoT device sent the data, the time the data was received, or the time the data was added to your data warehouse etc.

Akshaya Kumar

7:29 PM | rof-kucp-cfy

Explaining the challenges in IoT

EVENT SNAPS

The screenshot shows a presentation slide titled "Internet of Things Timeline". The slide is divided into three decades: 1990s, 2000s, and 2010s. In the 1990s, it lists Satellites, Airplanes, and Trucking. In the 2000s, it lists Cell Towers, Utility Meters, and Home Alarms. In the 2010s, it lists Watches, TVs, Refrigerators, and Wireless Access Points. The slide also includes a source attribution: "Source: Raymond James research." and a logo for the Computer Society of India SV... in the bottom right corner. The presentation interface shows the presenter's name "Supriya M (Presenting)" and a meeting ID "63".

Timeline of IoT

STTP

DATE: 02/03/24

TIME: 6:15 PM

OBJECTIVES:

- To acquire new skills or deepen existing ones in the domain – Predictive analysis for the Internet of things
- To stay updated with the latest trends, technologies and practices in that respective field

ABOUT THE PROGRAMME:

The Computer Society of India - SVCE Student Chapter orchestrated a transformative Industry supported 5 days STTP centered on **“Recent trends and applications in IoT”**. Day three highlighted the erudite **Dr Supriya M**, Associate Professor and Vice Chairperson of the school of computing ,Bengaluru, leading a compelling session on the topic **“Predictive analysis for the internet of things**.**Dr.V.Vidhya**, the **Student Branch Counselor** of CSI, commenced the proceedings with a reflective introduction, underscoring the accomplishments of the chief guest.

The event unfolded with a warmwelcome and comprehensive introduction by **Gowtham S**, **Executive member of CSI**, who provided an overview of the esteemed guest, **Dr. Supriya M**.**Dr. Supriya M** captivated the audience with her enlightening discourse, delving into crucial aspects of IoT such as its defining characteristics,

evolutionary timeline, connectivity paradigms and emerging trends. Her elucidation encompassed pivotal topics including the rationale behind IoT's exponential growth, foundational technologies, evolution of connected devices, contemporary applications, IoT enablers, sensor technology and prevailing challenges in the IoT landscape.

Furthermore, **Dr. Supriya M** provided invaluable insights into IoT analytics, addressing both its significance and the challenges inherent in a captivating exploration of predictive analysis, underscoring by real world applications, including a fascinating glimpse into Amazon's utilization of predictive analysis. The event reached its end

with a gracious vote of thanks delivered by **Gowtham S**, marking a harmonious blend of erudition and engagement .The event was highly interactive and successful, attributed to the collaborative efforts of CSI office bearers and concerned faculties.

OUTCOME OF THE PROGRAMME:

- The speaker gave insights about the necessary skill sets that are predicted to be explored in the future.
- The program served as an effective platform for learning.

ATTENDANCE REPORT

Total no of students	II	III	IV
	49	3	2
Total no of faculty	14		

NAME	DEPARTMENT	YEAR
BALAJI VIGNESH L K	ECE	FACULTY
A.KANAGAVEL	MARINE	II
Adhithiyan R	EEE	II
AHILAN C	EEE	II
Keerthana S	CSE	FACULTY
Khanaghavalle G R	CSE	FACULTY
P. ARUL	ECE	FACULTY
AKSHAY G	ECE	II
BHARATH M	EEE	II
DHANUSH.M	EEE	II
G RAJA VISHALINI	IT	II
G RAJALAKSHMI	IT	II
Girish	BIO-TECH	III
B. SARALA	ECE	FACULTY
Hari Kishore K	EEE	II
T J Jeyaprabha	ECE	FACULTY
S. M. Mehzabeen	ECE	FACULTY
Harikrishnan S	EEE	II
KOUSALYA R	ECE	FACULTY
HARINEE V T	ECE	II
Harish B	EEE	II
J Gopika	EEE	II
J. Purushothaman	IT	II
Janani. S. G	EEE	II
Kanishkarkumar.P	EEE	II
Keerthana S	IT	II
Dr.T.Senthilnathan	APH	FACULTY
Dr. V. Rajalakshmi	CSE	FACULTY
Kiran M S	AIDS	II
Dr.M.K.Sandhya	CSE	FACULTY
Magesh S	ECE	III
Mohanraja C	ECE	IV
Mubeena M	IT	II
N.Mohana Priya	CSE	II
Naresh B	IT	II
P.Shreyas Aditya	IT	II
PRABAKARAN R	ECE	II
Praveen kumar R	IT	IV

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Premalatha J	IT	II
Priya Lakshmi S V	IT	II
Rahul B	CSE	II
RASHMIKA R S	IT	II
Roshan M	ECE	II
S SOWNDARYA	IT	II
S.R.SAI AKSHAYA	EEE	II
Dr R Jayabhaduri	CSE	FACULTY
S.R.SAI ANANYA	EEE	II
Sanjay Kumar S	CSE	II
Santhosh	IT	II
Santoshi. R. V	CSE	II
Sarlin Sajil S A	CSE	II
Sasidharan A	EEE	II
SB AJJAYSABARI	CSE	
SHANMATHI V	CSE	II
SHIVABAALAJI V	AUTO	II
SHREENIDHI BALAJI	CSE	II
SIDDHARTH K	IT	II
Sivapuram Deekshitha	EEE	II
ARULKUMAR MUNIYAPPAN	MECH	FACULTY
Supraja S	IT	II
Thiwahar.B	IT	II
THULASIDOSS KS	MARINE	II
Vasanth.S	EEE	II
Vikram p	IT	II
Dr.Mkavitha	ECE	FACULTY
Vishnu Priyan S	CSE	III
Yagnesh R	IT	II
YUVARAM.M	IT	II

FEEDBACK FORM REPORT

NAME	DEPARTMENT	YEAR	FEEDBACK
Kiran M S	AIDS	II	Learnt about machine learning
ShivabalaajiV	AUTO	II	Analysis with IoT
Girish	BIO-TECH	III	iot is very useful
N.Mohana Priya	CSE	II	Big Data,IOT analysis
			In this session,I learned about the evolution of IOT based on the need of the people and the growth of IOT due to the rise of cloud computing Then the need of sensor technology and cloud computing for IOT.I got to know about the application of IOT at healthcare ,shopping and smart automation.Thank you for this session
Rahul B	CSE	II	
Sanjay Kumar S	CSE	II	Predictive Analysis of Data using IoT
Santoshi. R. V	CSE	II	Applications in IoT
Sarlin Sajil S A	CSE	II	How IOT impacts our everyday life
SB AjjaySabari	CSE	II	Helpful and needy
Shanmathi V	CSE	II	Predictive analysis
Shreenidhi Balaji	CSE	II	Informative
Vishnu Priyan S	CSE	III	Well taken
Akshay G	ECE	II	Analytics and prediction and learning knowledge of iot.
			predictive analysis involves continuous data collection, implementing algorithm, and making frequent modifications.
Harinee V T	ECE	II	
Magesh S	ECE	III	Data security, predictive analysis
			Power of cloud, Applications of IOT, Importance of data and stages of data analytics
Mohanraja C	ECE	IV	
Prabakaran R	ECE	II	IOT applications
			conclusive overlook on how iot can be integrated in various domains
Roshan M	ECE	II	
Adhithiyar R	EEE	II	Knowledge
Ahilar C	EEE	II	Knowledge and skills
Bharath M	EEE	II	Knowledge
			i have learned more about analytics of IOT
Dhanush.M	EEE	II	
Hari Kishore K	EEE	II	Skills
Harikrishnan S	EEE	II	Gained some knowledge

Harish B	EEE	II	No
J Gopika	EEE	II	Application on cloud computing
Janani. S. G	EEE	II	Applications on cloud computing...
Kanishkarkumar.P	EEE	II	Nil
S.R.Sai Akshaya	EEE	II	Iot applications
S.R.Sai Ananya	EEE	II	Good
Sasidharan A	EEE	II	Nice
Sivapuram Deekshitha	EEE	II	Good
Vasanth.S	EEE	II	Knowledge
G Raja Vishalini	IT	II	Had a view over IOT
G Rajalakshmi	IT	II	Learnt about predictive analysis of Iot