PRESIDENCY UNIVERSITY
Established under Section 2(f) of UGC Act, 1956 Approved by AICTE, New Delhi | Approved By BCI | NAAC 'A' Accredited
BENGALURU

The Communique

Presidency School of Computer Science & Engineering
&
Presidency School of Information Science

Connected Intelligence: Powering the Future with IoT

April 2026

VOLUME 2 | ISSUE 4

TABLE OF CONTENTS

1	FROM THE HELM
2	THE TEAM
3	LEARN FROM THE BEST
13	CAREER OPPURTUNITIES IN IOT
15	THE INSIGHT EXCHANGE
17	THE INDUSTRY PULSE
19	RESEARCH FRONTIERS & NPTEL STARS
24	DEPARTMENTAL NEWS AND UPDATES
28	PRODUCT REVIEW
30	UNWIND ZONE
32	BOOK REVIEW
34	UPCOMING FDP, CONFERENCES & RESEARCH PROPOSALS
37	UPCOMING EVENTS
38	THE WRAP UP

LETTER FROM THE EDITOR

From Insights to Impact—Lead the Change

Technology today is no longer limited to screens and software—it is becoming deeply connected to the world around us. From smart homes and wearable devices to intelligent transportation and healthcare systems, the Internet of Things (IoT) is transforming the way we live, work, and interact. Through connected intelligence, everyday devices are now capable of collecting, sharing, and analyzing data to make life smarter, safer, and more efficient.

This edition of The Communique, themed "Connected Intelligence: Powering the Future with IoT," explores how IoT is shaping the future of innovation.

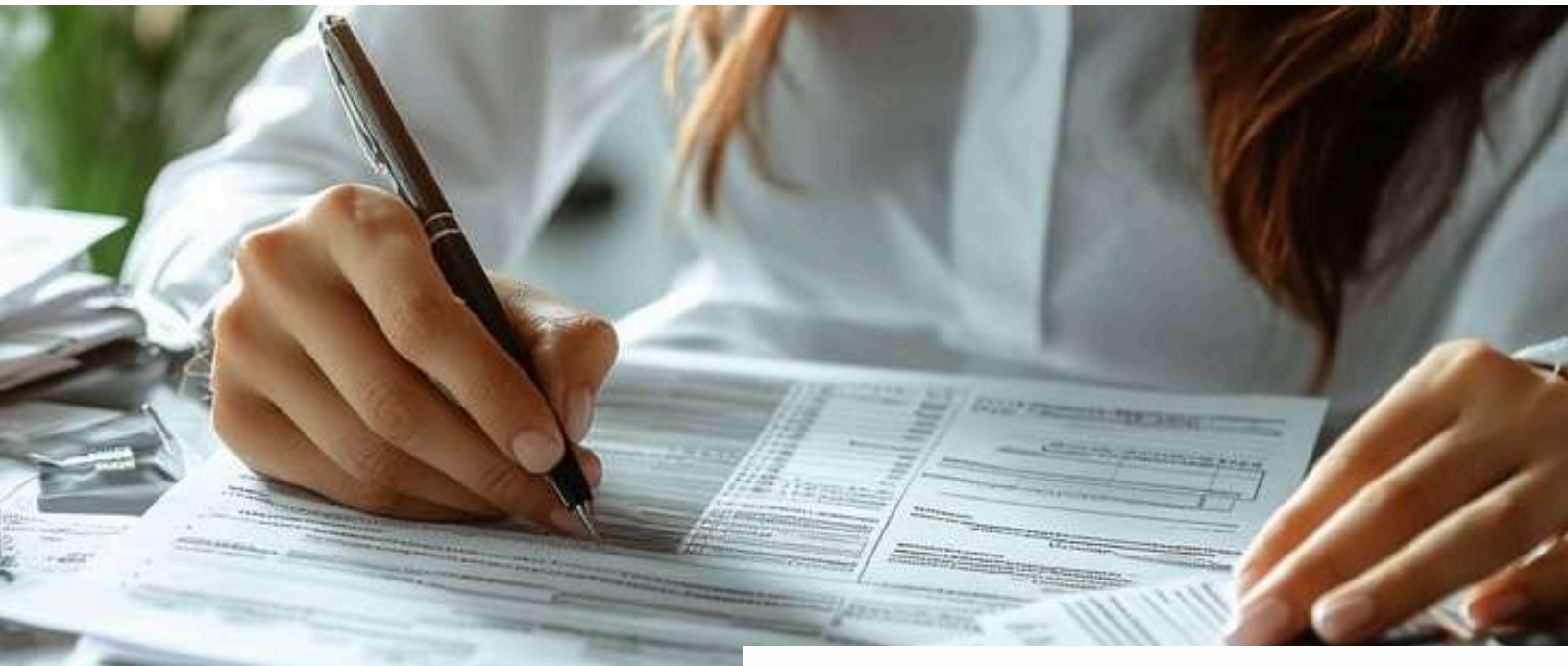
The articles in this issue highlight the growing role of smart technologies in areas such as healthcare, disaster management, education, agriculture, and sustainable living. They reflect how connected systems are moving beyond convenience to create meaningful impact in society.

True innovation lies not only in developing technology but also in using it responsibly to solve real-world problems. Technology should empower individuals to think creatively, act smarter, and innovate with purpose while ensuring security and ethical use of data.

The future belongs to those who can connect ideas across disciplines and transform knowledge into solutions. IoT represents more than interconnected devices—it represents collaboration, communication, and continuous learning. By embracing experimentation and innovation, young minds can contribute to building smarter communities and a more connected world.

Through this edition, we celebrate curiosity, creativity, and the spirit of innovation. Let this be a reminder that every connected idea has the power to create change, every intelligent solution can inspire progress, and every innovator has the ability to shape the future.

The Editorial Board



FROM THE HELM

It is my privilege to present this edition of The Communique, themed "Connected Intelligence: Powering the Future with IoT." This theme reflects how the Internet of Things (IoT) is transforming the world into a smarter, more connected, and intelligent ecosystem.

Today, technology is no longer limited to devices we use—it has become an invisible force that connects people, systems, and environments in real time. From smart homes and healthcare to agriculture, transportation, and disaster management, IoT is revolutionizing the way we live and work. By enabling devices to communicate, analyze data, and make intelligent decisions, IoT is driving a future built on efficiency, innovation, and connectivity.

As the world rapidly advances toward digital transformation, technologies such as IoT, Artificial Intelligence, cloud computing, and automation are creating endless opportunities for innovation and problem-solving. India's growing focus on smart technologies and digital initiatives is empowering young minds to explore, create, and contribute to a technology-driven future.

Educational institutions play a vital role in shaping this transformation. At Presidency University, we strive to cultivate curiosity, creativity, and technological excellence among students. By encouraging innovation and interdisciplinary learning, we aim to prepare future leaders who can harness technology to solve real-world challenges and create meaningful impact.

This edition of The Communique celebrates the spirit of connected innovation. The articles and ideas presented here showcase how intelligent technologies are shaping industries, improving lives, and building smarter communities. As we continue to innovate and connect, let us use technology not only to advance digitally but also to inspire progress, responsibility, and positive change for society.

Best Regards,

Prof. (Dr.) S. Sivaperumal
B.E. (ECE), M.E. (VLSI), Ph.D. (Control Systems), Ph.D. (Communication Systems), FIE., FIETE., SMIEEE., MISTE.
Pro-Vice Chancellor
Director – International Relations
Professor – Electronics and Communication Engineering
Presidency University, Bengaluru

THE COMMUNIQUE

THE TEAM

DR. R. MAHALAKSHMI
EDITOR -IN-CHIEF

MS. NEHA ARORA
EDITOR

MS. DEVI S
EDITOR

The essence
and
The spirit
That breathe
Life into it all.

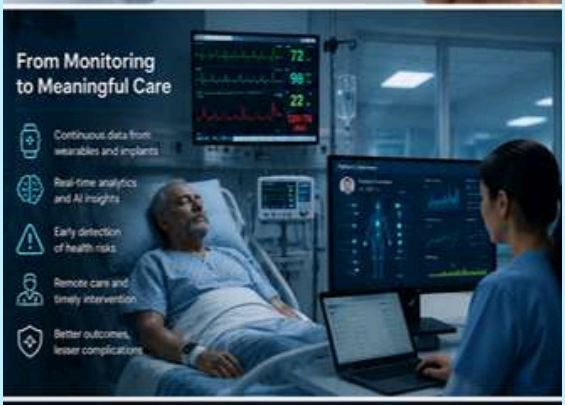
DR. SRABANA PRAMANIK
SUB EDITOR

Your Body is Online Now: Whether You Agreed to It or Not?

I remember the first time I looked down at my wrist and realized the watch there wasn't just telling time. It was measuring my oxygen saturation, estimating my stress levels, and silently uploading all of it somewhere. I hadn't really consented to that in any meaningful way. I'd clicked through a term of service page, sure. But that's not the same thing.

What's Actually Happening in 2026?

What's actually happening is this: healthcare is slowly shifting from a system where you show up sick and get treated, to one where you're being observed continuously and the system tries to catch problems before they catch you. Remote patient monitoring took off during COVID out of necessity, and it never really went back. Cardiologists now routinely manage patients whose implanted devices send telemetry overnight. Diabetics wear continuous glucose monitors that talk to their phones and, increasingly, to their insulin pumps directly, with no human in the loop at all.



Wearables have gotten genuinely good at a few things they used to be mediocre at. ECG detection on consumer devices catches arrhythmias that would have gone unnoticed between annual checkups. Sleep tracking, while still imperfect, has become precise enough that some sleep clinics are starting to take the data seriously. Blood pressure monitoring without a cuff is getting close to accurate, which would be a real shift if it holds up clinically.

Where Cyber Physical Systems Come In?

Most discussions of IoT in healthcare treat the devices as data collectors and leave it there. That misses the more interesting story, which is what happens when the system doesn't just collect data but acts on it.

The shift from monitoring to control is the genuinely consequential development here. When your wearable just tracks your heart rate, the worst that happens if it's wrong is you get bad fitness data. When your device is making therapeutic decisions based on that data, the stakes are completely different. An insulin pump that misreads glucose levels and doses incorrectly doesn't just give you a bad report. It can send you into hypoglycaemia.

It's control systems engineering combined with safety-critical software design, applied to hardware that lives in or on a human body. The feedback loops are tight, the actuators are biological, and the failure modes are not recoverable in the way software bugs usually are.

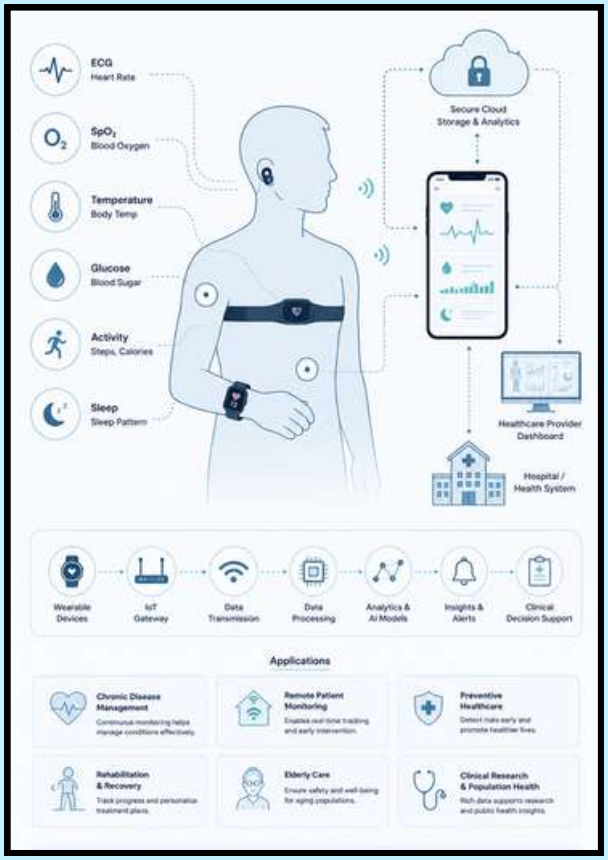
The Security Problem Nobody Wants to Talk About

Healthcare IoT has the same pressures and higher stakes. Medical device manufacturers operate under FDA regulatory frameworks that weren't designed for software-defined products and have struggled to keep up. Many devices running in hospitals today are running old versions of Windows or embedded Linux with known vulnerabilities, because updating them requires recertification that manufacturers haven't done.

Your Body is Online Now: Whether You Agreed to It or Not?

In a CPS context this stops being a data privacy problem and becomes a patient safety problem. Ransomware attacks on hospital networks have delayed surgeries and been implicated in patient deaths. A compromised insulin pump or pacemaker is a different category of threat than a compromised email server, but the attack surface overlaps.

The FDA has gotten more serious about this recently. Guidance on premarket cybersecurity requirements for medical devices has been tightened. But guidance and enforcement are different things, and the installed base of vulnerable devices isn't going anywhere quickly.



The Data Question

Healthcare IoT generates an enormous amount of continuous, longitudinal, physiological data about people. What happens to it is genuinely unclear in most cases.

The clinical data collected by your hospital is governed by HIPAA in the US, similar frameworks elsewhere. The data collected by your Fitbit or Apple Watch is largely not, because consumer wellness devices have managed to stay outside the medical device regulatory bucket.

Your insurance company, your employer, anyone who buys data from your device manufacturer's analytics operation, their access to this data is governed mostly by privacy policies that you didn't read and that can change.

Where This Goes

Healthcare IoT and wearable technology are going to keep expanding because the value, when it works, is real. Continuous monitoring catches things episodic monitoring misses. Early detection changes outcomes. Remote care reaches people that the current system doesn't reach well.

Dr. Hashmat Fida
Assistant Professor
Presidency University, Bengaluru

A Day in a Smart Home - Life with IoT

Living with Connected Intelligence

Imagine a home where devices communicate with each other to make life easier, safer, and smarter. This is the power of the Internet of Things (IoT). From smart alarms and wearable devices to automated lights and security systems, IoT is transforming modern homes into intelligent living spaces.

Smart Morning Routine

The day begins with a smart alarm clock connected to a wearable fitness band. It wakes the user at the perfect time based on sleep patterns.

As the alarm rings:

- Smart curtains open automatically
- Lights adjust brightness gradually
- The coffee machine starts brewing
- Voice assistants provide weather and news updates
- Wearable smartwatches also monitor heart rate, steps, and overall fitness.

Intelligent Kitchen

IoT makes kitchens smarter and more convenient.

Smart Kitchen Features:

- Smart refrigerators track food items
- Voice-controlled appliances simplify cooking
- Smart water purifiers monitor water quality
- Automated coffee makers save time
- Users can even receive mobile notifications when groceries are running low.

Smart Work and Security

While working or studying from home, smart devices create a comfortable environment.

Smart Security features:-

- Smart lights adjust automatically
- AI assistants manage reminders
- Smart plugs save electricity
- Smart cameras monitor the house
- Motion sensors detect unusual activity
- Smart locks allow fingerprint access
- Mobile alerts provide real-time updates

A Day in a Smart Home - Life with IoT

Entertainment and Relaxation

After a busy day, IoT enhances entertainment and comfort.

- Smart TVs suggest personalized content
- Voice assistants play music instantly
- Automated lighting creates a relaxing atmosphere
- Smart air conditioners maintain ideal temperature

A simple voice command can control multiple devices together.

Energy Saving and Future Living

IoT helps reduce energy consumption through smart bulbs, automated appliances, and intelligent power management systems.

In the future, smart homes will become even more advanced with Artificial Intelligence and 5G technology, creating fully automated and sustainable living experiences.

Conclusion

Smart homes powered by IoT are making everyday life more connected, efficient, and secure. From wearable devices and smart alarms to intelligent security and energy management systems, IoT is shaping the future of modern living.

SMART DOOR LOCK

SMART CURTAINS

SMART COFFEE MAKER

SMART MIRROR

Smart World Around Us: How IoT Is Transforming Everyday Life

Making life simpler, smarter, and more connected

We often think of technology as something we actively use—our phones, laptops, or apps. But today, technology is also working quietly in the background, making our daily lives easier without needing constant attention. This is made possible through the Internet of Things (IoT), a network of connected devices that collect, share, and use data to improve convenience and efficiency.

From smart homes to healthcare and transportation, IoT is becoming a part of everyday life. Devices such as smart speakers allow users to control lights, fans, and appliances through voice commands or mobile apps. These systems can even learn user habits over time, helping save energy and making homes more comfortable.

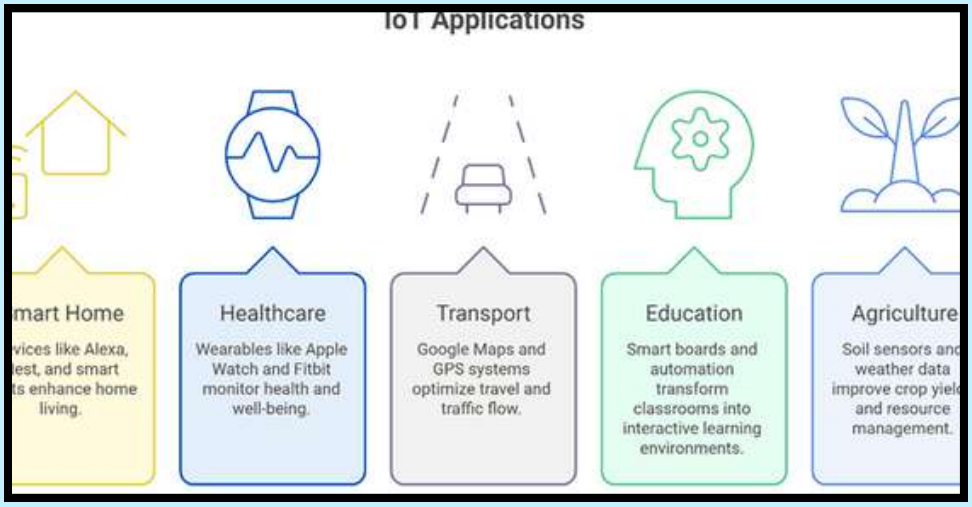
Transportation is another area where IoT has a strong impact. Applications like Google Maps provide real-time traffic information and suggest faster routes. In cities like Bengaluru, IoT-based traffic systems and GPS-enabled public transport are helping reduce congestion and improve travel efficiency.

In healthcare, wearable devices such as smartwatches and fitness bands monitor heart rate, physical activity, and sleep patterns. This information can help doctors track patient health and support early diagnosis, especially for elderly people and patients requiring regular monitoring. Education and workplaces are also becoming smarter through IoT. Smart classrooms use connected devices and automated systems to create more interactive learning environments. Similarly, organizations use IoT for security, energy management, and improving productivity.

IoT is also benefiting agriculture. Farmers use sensors to monitor soil moisture, temperature, and weather conditions. Automated irrigation systems help save water and improve crop production, supporting sustainable farming practices.

Although IoT offers many advantages, it also creates challenges related to privacy and data security. Since devices continuously collect and exchange information, protecting user data and ensuring secure communication are important concerns.

In conclusion, the Internet of Things is shaping a smarter and more connected world. It simplifies daily activities, improves efficiency, and enhances quality of life. As IoT continues to grow, technology will become even more integrated into our surroundings, making everyday living more convenient and intelligent.



The Editorial Board
The Communique

THE IOT CHRONICLE: 2026 EDITION

The IoT is no longer just about sensing; it perceives and acts. This is the biggest conceptual leap since the emergence of the technology itself.

The Rise of Physical AI and Autonomous Perception

The Internet of Things has officially transcended the 'data collection' phase. In 2026, the industry is witnessing the birth of Physical AI. This trend integrates large-scale transformer models directly with robotic sensors, allowing machines to not just see, but to understand environmental context. In Stockholm, autonomous ferries are now navigating complex waterways using this technology, processing terabytes of sensor data locally to make split-second safety decisions without human intervention .

Zero Trust Architecture in Operational Technology (OT)

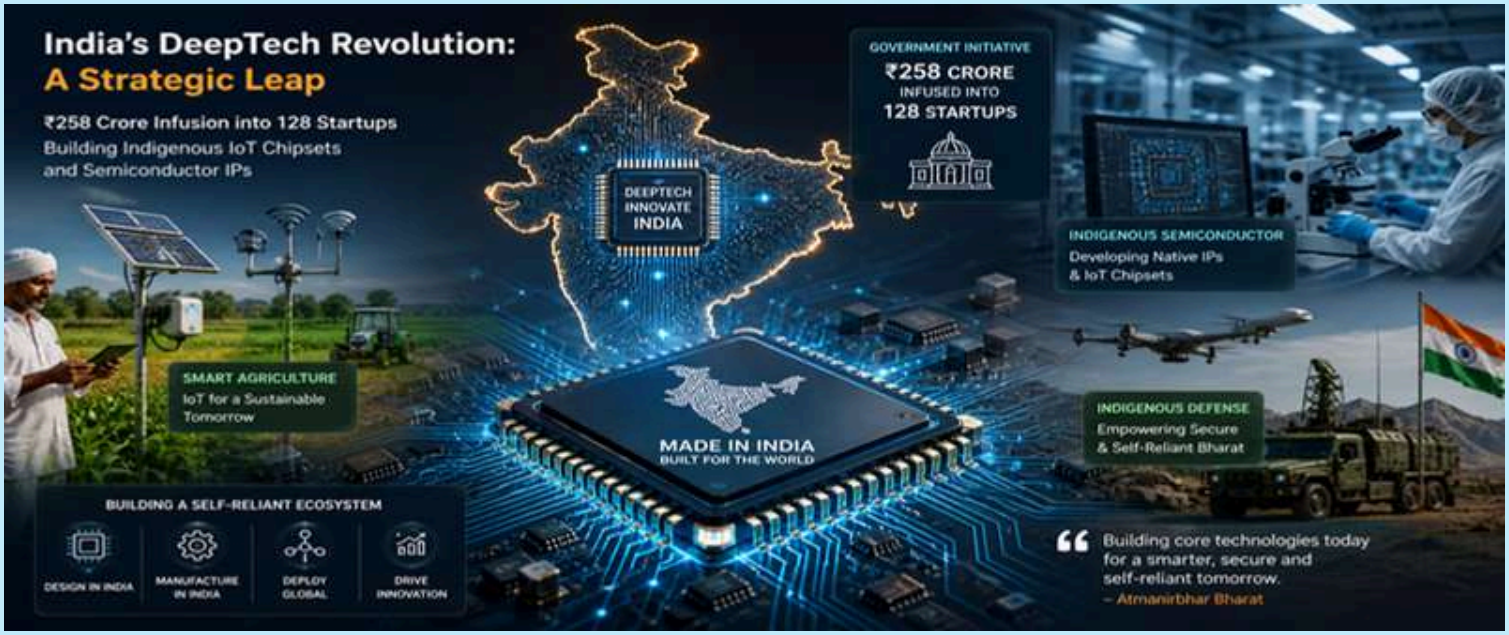
As critical infrastructure becomes increasingly connected, the security landscape has shifted from 'perimeter defense' to 'Zero Trust'. The U.S. Cybersecurity and Infrastructure Security Agency (CISA) has released new frameworks specifically for Industrial IoT. In this model, every sensor, valve, and actuator is treated as a potential entry point, requiring continuous cryptographic verification before any command is executed.

Author: Industrial Cyber Group
Publication: Industrial Cyber News
Date: April 30, 2026

Resilience and flexibility are the new priorities. The decline of 'connect and forget' IoT will reshape the landscape.

Granular Traceability: The Micro-Level Supply Chain

Logistics has evolved from tracking ships to tracking individual medicine vials and electronics units. Through the integration of 5G-Advanced and Low Earth Orbit (LEO) satellites, real-time visibility is now global. Smart labels, costing only cents, monitor not just location but internal package conditions—vibration, humidity, and light exposure.



India's DeepTech Revolution: A Strategic Leap

India is aggressively positioning itself as a global IoT hub. The recent government infusion of ₹258 Crore into 128 startups focuses on 'DeepTech'—developing indigenous semiconductor IPs and IoT chipsets. This movement aims to reduce import dependency and create a specialized ecosystem for smart agriculture and indigenous defense electronics.

Author: ELE Times Editorial
Publication: Electronic Engineering Times (India)
Date: April 2026

Mr. Krishna Mishra
Assistant Professor, PSIS
Presidency University, Bengaluru

Internet of Things (IoT) in Disaster Management

Building Smarter and Safer Communities

Natural disasters such as floods, earthquakes, cyclones, and wildfires cause severe damage to life and property every year. One of the major challenges during disasters is providing timely warnings and effective emergency response. Today, the Internet of Things (IoT) is helping improve disaster management through smart and connected technologies.

IoT refers to a network of devices such as sensors, cameras, drones, and communication systems that collect and exchange data through the internet. These devices help authorities monitor situations in real time and respond quickly during emergencies.

One of the most important applications of IoT in disaster management is early warning systems. Sensors installed in rivers, forests, and seismic zones can detect environmental changes and send alerts before disasters occur. Water level sensors help predict floods, while smoke and temperature sensors identify forest fires at an early stage.

IoT also improves rescue and relief operations. Drones provide live images of affected areas, GPS-enabled devices help locate victims, and emergency communication systems ensure connectivity during emergencies. Authorities can also track relief materials more efficiently using IoT-based systems. Despite its advantages, IoT faces challenges such as high implementation costs, internet dependency, and data security concerns. However, advancements in AI, Machine Learning, and 5G technology are expected to make IoT systems more reliable and efficient.

In conclusion, IoT is transforming disaster management through early warnings, real-time monitoring, and smarter emergency response systems, helping build safer and more resilient communities.

Dr. Riyazulla Rehman J.
Assistant Professor - Senior Scale
Presidency University, Bengaluru

The Silent Sentinel: Protecting the Smart Networks of 2026

In 2026, the **Internet of Things (IoT)** has become an essential part of everyday life, connecting billions of devices across smart cities, healthcare, industries, and homes. However, this rapid connectivity has also created major cybersecurity challenges that traditional security systems cannot fully handle.

To address these threats, IoT-Based Intrusion Detection Systems (IDS) act as “silent sentinels,” continuously monitoring networks and detecting suspicious activities in real time.

The New Battlefield: 20+ Terabit Attacks

The rapid growth of IoT has increased cybersecurity threats. Modern botnets can launch massive DDoS attacks capable of disrupting critical infrastructure, while malware can compromise devices even before they reach users.
As most IoT devices cannot run traditional antivirus software, security must be managed within the network itself. IoT-Based Intrusion Detection Systems (IDS) monitor traffic patterns and detect suspicious activities in real time.

Anatomy of a 2026 Intrusion Detection System

Modern Intrusion Detection Systems (IDS) are evolving to secure smart networks through advanced technologies:

- Edge AI: Instead of sending all data to the cloud, IDS now processes information locally on gateways and routers, enabling faster threat detection and preventing attacks from spreading.
- Behavioral Fingerprinting: Modern systems study the normal behavior of connected devices and quickly identify unusual activities or suspicious network behavior.
- Federated Learning: Devices learn about threats locally and share only security insights with a central system, helping improve network protection while maintaining user privacy.

The Regulatory Turning Point

Security is no longer just a "nice-to-have." As of September 2026, the EU Cyber Resilience Act mandates that manufacturers report actively exploited vulnerabilities within 24 hours. This legal shift is forcing the industry to move from "Security as an Afterthought" to "Security by Design."

Looking Ahead: The 6G Horizon

As the world moves toward 6G networks, future Intrusion Detection Systems (IDS) will become more intelligent and deeply integrated with communication systems. AI-driven security will play a major role in protecting smart networks from evolving cyber threats. While connected technologies offer greater convenience and efficiency, IDS will remain essential in ensuring a secure and reliable digital future.

Ms. Josephine R
Assistant Professor - PSCS
Presidency University, Bengaluru

Why Centralized AI is Failing Privacy and How Federated Learning Solves It?

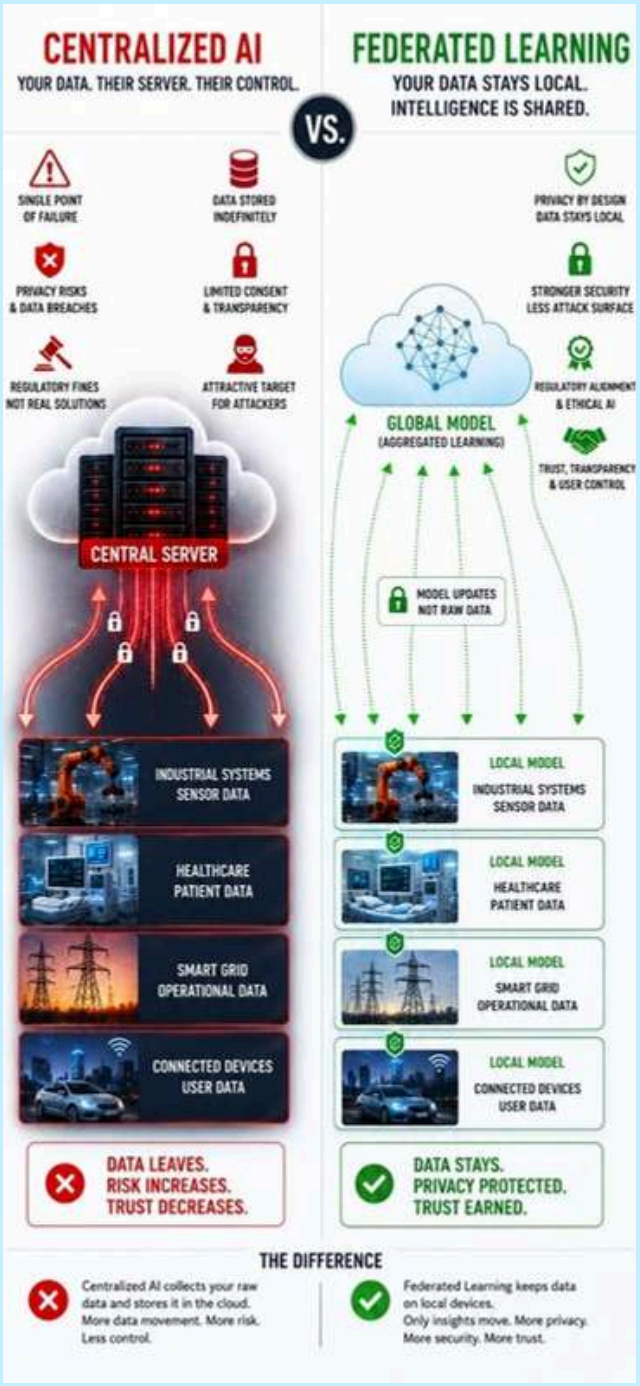
There is a version of the AI story we keep being sold. Data goes to the cloud, a model trains on it, and intelligence comes back. Clean. Efficient. Scalable. The problem is that version skips over what actually happens in the middle, which is that your data, my data, and the operational data of critical physical infrastructure sit on someone else's server, often indefinitely, often without meaningful consent.

The centralized model made sense when AI was mostly about recommendation engines. You could argue the privacy trade-off was acceptable. But the scope of what AI now touches has changed completely. Smart grids adjust power distribution in real time. Hospital networks feed patient monitoring data into diagnostic models. Industrial control systems run on continuous feedback loops. These are Cyber Physical Systems, environments where computation and the physical world are tightly coupled, and the data they generate is nothing like a search history.

When a factory floor sensor sends pressure readings to a central server, it's not just metadata. It's operational intelligence. When a glucose monitor streams patient data to a cloud model, the stakes aren't abstract. Centralizing this data creates a single point of failure, technically and ethically. GDPR tried to address this. CCPA tried. The results have been fines, not fixes.

This is where federated learning stops being a research paper topic and starts being the only approach that actually fits the problem. The model trains where the data lives. A hospital runs a local training process, computes the model update, and sends only gradient updates upstream. The aggregation server combines updates from multiple participants without ever seeing raw data.

For Cyber Physical Systems this matters for reasons beyond privacy. A smart grid controller that waits for a round trip to a central model is slower than one running inference locally. In environments where decisions happen in milliseconds, that lag is not acceptable. Federated architectures push inference to the edge, which is where it needs to be anyway. CPS environments also have intermittent connectivity. A wind farm offshore doesn't have fibre. A remote mining operation has network constraints you can't design around. Federated learning tolerates this without breaking.



Google has been running federated learning on Android devices for keyboard prediction for years. Healthcare consortiums are building federated networks for cancer imaging where no hospital shares raw scans. NVIDIA's FLARE framework is getting real adoption in medical and financial contexts. This is not theoretical anymore. Federated learning isn't a silver bullet. It's a shift in where you put the risk. And for systems where data is sensitive, latency matters, and physical consequences of failure are real, that shift is long overdue.

Mr. Faizan Anwar Khan
Assistant Professor
School of Information Science, Presidency University

HEAD'S CORNER

Connected Futures: Exploring Career Opportunities in IoT

The Internet of Things (IoT) is transforming the world into a smart, connected ecosystem where devices communicate, analyze data, and make intelligent decisions. From smart homes and healthcare to agriculture, manufacturing, and transportation, IoT is creating endless career possibilities for today's students and future innovators.

Why Choose a Career in IoT?

- Rapidly growing global industry
- High demand for skilled professionals
- Opportunities in both software and hardware domains
- Strong integration with AI, Cloud Computing, Cybersecurity, and Data Science
- Attractive salary packages and innovation-driven careers

Top Career Roles in IoT

1. IoT Developer

Designs and develops smart applications and connected systems using sensors, microcontrollers, and cloud platforms.

Skills Required:

- Python, C, Java
- Arduino, Raspberry Pi
- MQTT, Node-RED
- Cloud platforms

2. Embedded Systems Engineer

Works on hardware programming and device-level communication for smart systems.

Skills Required:

- Embedded C
- Microcontrollers
- PCB Design
- Real-time systems

3. IoT Solution Architect

Designs complete IoT ecosystems for industries and organizations.

Skills Required:

- System Integration
- Cloud Architecture
- Networking
- Security Design

HEAD'S CORNER

Connected Futures: Exploring Career Opportunities in IoT

4. Data Analyst / IoT Data Scientist

Analyzes data generated by smart devices to extract insights and predictions.

Skills Required:

- Data Analytics
- Machine Learning
- Visualization Tools
- Python & SQL

5. IoT Security Specialist

Protects smart devices and networks from cyber threats and attacks.

Skills Required:

- Cybersecurity
- Ethical Hacking
- Network Security
- Encryption Techniques

6. Cloud IoT Engineer

Manages IoT platforms and cloud-based communication between devices.

Skills Required:

- AWS IoT / Azure IoT
- Cloud Computing
- APIs
- Database Management

7. Automation and Robotics Engineer

Develops intelligent machines and automated industrial systems.

Skills Required:

- Robotics
- Sensors & Actuators
- AI Integration
- Industrial Automation

Future Scope of IoT

The future of IoT is driven by intelligent automation, smart infrastructure, and connected living. As industries continue to adopt digital transformation, IoT professionals will play a major role in building innovative and sustainable solutions for society

Dr. Renuka Devi M.
Professor & HOD MCA
Presidency School of Information Science

THE INSIGHT EXCHANGE

How IoT is Building Tomorrow

The Internet of Things (IoT) is no longer just a futuristic idea it is rapidly becoming the foundation of tomorrow's intelligent world. IoT connects devices, machines, sensors, and systems through the internet, allowing them to communicate, share data, and make smart decisions with minimal human intervention. From homes and hospitals to industries and smart cities, IoT is transforming the way people live, work, and interact with technology.

Smart Healthcare: Technology Saving Lives

IoT is revolutionizing healthcare through wearable devices, remote patient monitoring, and AI-assisted diagnostics. Smartwatches and sensors can continuously monitor heart rate, oxygen levels, and physical activity, helping doctors provide faster and more accurate treatment. IoT is making healthcare more accessible, efficient, and patient-centered.

Smart Agriculture: Farming for the Future

IoT is helping farmers improve productivity and sustainability. Smart sensors monitor soil moisture, weather conditions, and crop health in real time. Automated irrigation systems reduce water wastage, while drones and AI analytics help farmers make data-driven decisions for better crop management.

Smart Transportation and Cities

IoT is creating safer and smarter transportation systems. Intelligent traffic management, connected vehicles, and smart parking systems help reduce congestion and improve road safety. Smart cities use IoT to manage energy, waste, water supply, and public services efficiently, creating sustainable urban environments for future generations.

THE INSIGHT EXCHANGE

How IoT is Building Tomorrow

Industrial IoT: The Rise of Smart Industries

Industries are embracing IoT to improve automation, monitoring, and productivity. Machines equipped with sensors can detect faults, predict maintenance needs, and optimize production processes. This concept, known as Industry 4.0, is helping businesses reduce costs, improve efficiency, and increase innovation.

Smart Parking: Smarter Cities, Better Mobility

IoT-based smart parking systems are transforming urban transportation by reducing traffic congestion and saving time. Smart sensors installed in parking spaces detect vehicle availability and provide real-time updates through mobile applications. Drivers can easily locate vacant parking spots, reducing fuel consumption, pollution, and unnecessary traffic movement in busy cities.

Features such as automated payment systems, vehicle tracking, and AI-driven parking management make parking more efficient, secure, and user-friendly. Smart parking is becoming an essential component of future smart cities and intelligent transportation systems.

The Future Ahead

The future of IoT is closely connected with Artificial Intelligence, 5G, Cloud Computing, and Blockchain technologies. As billions of devices become interconnected, IoT will continue to shape smarter homes, intelligent healthcare, sustainable agriculture, automated industries, and connected cities.

IoT is not just building devices—it is building a smarter tomorrow where technology works seamlessly to improve human life, increase efficiency, and create a sustainable future for generations to come.

Dr. Mridula Singh
Professor
Quantum University, Uttarakhand

INDUSTRY PULSE

MR. DURGA PRASHANTH

Associate Consultant, The Hackett Group Inc.

Q How is IoT reshaping the way we live, work, and interact with technology?

The Internet of Things (IoT) is transforming the modern world by connecting devices, systems, and people through the internet. From smart homes and wearable fitness trackers to automated workplaces and smart appliances, IoT enables devices to communicate and exchange data in real time. This improves convenience, efficiency, safety, and productivity. In workplaces, IoT helps automate repetitive tasks, monitor equipment performance, and support better decision-making through real-time insights.

Q What industries are experiencing the greatest impact from IoT today?

IoT is impacting industries such as healthcare, manufacturing, agriculture, transportation, and smart cities. In healthcare, IoT supports remote patient monitoring and smart medical systems. In manufacturing, smart sensors improve efficiency and predictive maintenance. Agriculture benefits from smart irrigation and crop monitoring, while transportation uses IoT for traffic management and vehicle tracking. These advancements help reduce costs and improve productivity.

Q How does Artificial Intelligence enhance the capabilities of IoT systems?

Artificial Intelligence (AI) enhances IoT systems by converting raw sensor data into meaningful insights and intelligent actions. AI algorithms can analyze large volumes of data, identify patterns, predict failures, and automate decisions without human intervention. AI-powered IoT applications are widely used in smart homes, autonomous vehicles, industrial automation, healthcare monitoring, and predictive maintenance systems. Together, AI and IoT create smarter, faster, and more efficient technologies.

Security and privacy are the foundation of a successful IoT ecosystem in a connected world.

Q What are the major cybersecurity and privacy concerns associated with IoT?

As IoT devices continuously collect and share data, they are vulnerable to cybersecurity threats such as hacking, malware attacks, and data breaches. Weak passwords, insecure networks, and outdated software increase the risk of unauthorized access. Privacy is also a major concern because sensitive information collected by IoT devices can be misused if not properly protected. Strong encryption, secure authentication, regular software updates, and network monitoring are essential for ensuring IoT security and user privacy.

Q How can IoT contribute to smarter and more sustainable cities?

IoT plays a major role in building smart and sustainable cities by improving the management of urban resources and public services. Smart traffic systems help reduce congestion and fuel consumption, while smart energy systems optimize electricity usage in buildings and streetlights. IoT-enabled waste management systems monitor garbage levels and improve collection efficiency. Environmental sensors can track air quality, water usage, and pollution levels in real time. These technologies help cities become more efficient, eco-friendly, and comfortable for citizens.

Q What advice would you give students aspiring to build careers in IoT and smart technologies?

Students should develop skills in programming, AI, networking, and cybersecurity. Hands-on projects and staying updated with new technologies like 5G and IoT will help them build successful careers in smart technologies. Continuous learning and innovation are also important in this rapidly evolving field. Strong problem-solving and teamwork skills will further help students succeed in the IoT industry. Participating in workshops, hackathons, and internships can also provide valuable practical experience.

NPTEL STARS

Dr. Sandeep Albert Mathias
Assistant Professor - Senior Scale
Database Management System

Dr. V Anand
Associate Professor
Cloud Computing and Distributed System

Dr. S Hasan Hussain
Professor
Fundamentals Algorithms: Design and Analysis

Dr. Sandeep Albert Mathias
Assistant Professor - Senior Scale
Fundamentals Algorithms: Design and Analysis

Dr. Sandeep Albert Mathias
Assistant Professor - Senior Scale
System and Usability Security

Dr. Sandeep Albert Mathias
Assistant Professor - Senior Scale
Information Security 5- Secure System Engineering

Research Frontiers

Dr. Hashmat Fida published a research paper titled "Risk-Sensitive Reinforcement Learning for Portfolio Optimization" in the journal Mathematics (MDPI), highlighting the role of AI-driven models in enhancing intelligent financial decision-making and risk-aware investment strategies.

Dr. Hashmat Fida
Assistant Professor

Ms. Faizan Anwar Khan presented a research paper on "Blockchain-Enabled Authenticity, Enhancing Counterfeit Product Detection" at the International Conference on Computational Intelligence and Communication Technologies (CCICT 2026), highlighting innovative approaches for secure product authentication systems.

Mr. Faizan Anwar Khan
Assistant Professor

Mr. Irfan Rajab Bhat presented the research paper titled "Ensemble of Grouped Convolution Based EfficientNet and DenseNet-121 for Image Classification" at INDIACom 2026, highlighting advanced AI techniques for efficient and sustainable image classification systems.

Mr. Irfan Rajab Bhat
Assistant Professor

Ms. S. Vanitha presented the research paper titled "Hybrid Framework for Coronary Stenosis and Brain Tumor Detection" at the 9th International Conference on Inventive Computation Technologies (ICICT-2026), showcasing innovative AI-based healthcare diagnostic solutions.

Ms. S. Vanitha
Assistant Professor

Mr. Himansu Sekhar Rout co-authored the book chapter titled "Toward Precision Alzheimer's Treatment: AdGenius-CogMol-VAE for Smart Drug Discovery," presenting AI-driven innovations for precision medicine and intelligent drug discovery in Alzheimer's treatment.

Mr. Himanshu Sekhar Rout
Assistant Professor

Research Frontiers

Nagma Fariyal has achieved the prestigious Oracle Cloud Infrastructure 2025 Certified Foundations Associate certification, showcasing excellence in cloud computing and emerging technologies.

Ms. Nagma Fariyal
Assistant Professor

Dr. Vijayalakshmi P co-authored and presented the paper titled "Enhancing Lung Cancer Detection Accuracy and Efficiency through attention mechanisms: A comprehensive review with proposed framework" at the International Conference on Current Trends in Advanced Computing (ICCTAC–2026).

Dr. Vijayalakshmi P
Professor

Mr. Faizal Nujumudeen contributed to the research article "Adaptive Blockchain Framework for Reliable Authentication and Preservation of Digital Forensic Evidence," focusing on secure blockchain-based solutions for digital forensics, authentication, and cyber resilience.

Mr. Faizal Nujumudeen
Assistant Professor

Dr. N Trimoorthy contributed to the research paper titled "Vision Transformers for Medical Diagnostics and Agricultural Crop Management Using a Novel Deep Learning Framework for Advanced Image Analysis," showcasing innovative applications of deep learning and AI in healthcare and smart agriculture.

Dr. N. Thrimoorthy
Assistant Professor- Senior Scale

Mr. Asif Ahmad Najar successfully completed a Five-Day Faculty Development Program on "AI Driven Cyber Security and Emerging Technologies: A Global View & Aspect," enhancing expertise in advanced cybersecurity and emerging AI technologies.

Mr. Asif Ahmad Najar
Assistant Professor

Dr. Saurabh Sarkar contributed to the research paper "Identification of Medicinal Plants using Machine Learning Algorithms," showcasing the application of AI and machine learning in healthcare and medicinal plant recognition.

Dr. Saurabh Sarkar
Assistant Professor

Research Frontiers

Ms. Josephine R and Ms. Devi S co-authored the IEEE research paper titled "Implementation of a Zero Trust Edge Blockchain Framework for IoT Security: Integrating 6G Connectivity and LoRaWAN," presenting advanced solutions for secure and intelligent IoT communication systems.

Ms. Josephine R
Assistant Professor

Ms. Devi S
Assistant Professor

Dr. T Lalitha presented the research paper titled "Genomic Prediction of Yield and Yield-Related Traits using Multi-Trait Approaches and Machine Learning Models" at the International Conference on Cognitive Informatics Engineering and Technology-2026, highlighting the role of AI and machine learning in advanced agricultural genomics.

Dr. T. Lalitha
Professor

Dr. R. Balakrishnan and Mr. Venkoba Kutagamari authored the research paper titled "Digital Rights and Data Privacy in the Era of Artificial Intelligence: Legal Challenges, Ethical Considerations, and Global Regulatory Frameworks," exploring AI governance, data privacy, and ethical challenges in modern digital systems.

Mr. Venkoba Kutagamari
Assistant Professor

Dr. Balakrishnan Raju
Associate Professor

Ms. Keren Lois Daniel presented the research paper titled "Generative Diffusion-Based Augmentation for Robust UAV Object Detection in Low-Visibility Conditions" at the IEEE-sponsored International Conference on Electrical Communication and Computing Technologies (iCONECCT-2025).

Ms. Keren Lois Daniel
Assistant Professor

Mr. Afroz Alam contributed to the research paper "QGAN-Enabled Generation of Multi-Modal Biomedical Signals for Smart Diagnostic Decision Support Systems," focusing on advanced AI-driven healthcare solutions using quantum generative models for intelligent biomedical signal analysis.

Mr. Afroz Alam
Assistant Professor

Research Frontiers

Dr. Riyazullah Rahman and Dr. Afroz Pasha contributed to the research article "MQTT-Enabled IoT Framework for Efficient Healthcare Monitoring and Prediction System," showcasing innovative IoT-based healthcare solutions for real-time patient monitoring and predictive healthcare analytics.

Dr. Riyazulla Rehman J.
Assistant Professor
Senior Scale

Dr. Afroz Pasha
Assistant Professor
Senior Scale

Dr. Pradeep Bhaskar contributed to the research work "Advanced Energy Management in Smart Grids through Fog-Centric IoT Systems," focusing on innovative IoT, fog computing, and smart grid technologies for efficient energy management and real-time power monitoring.

Dr. Pradeep Bhaskar
Assistant Professor - Selection Grade

Dr. S. Nithya contributed to the conference paper "Lung Cancer Prediction Through Image Segmentation with Enhanced Erfnet," highlighting advanced AI and image processing techniques for accurate and efficient lung cancer detection.

Dr. S. Nithya
Assistant Professor

Mr. Sreehari T.M.contributed to the conference paper "A Real-Time Application for Chronic Kidney Disease (CKD) Stage Prediction Using Machine Learning," highlighting innovative healthcare solutions through real-time machine learning applications and predictive analytics.

Mr. Sreehari T.M.
Assistant Professor

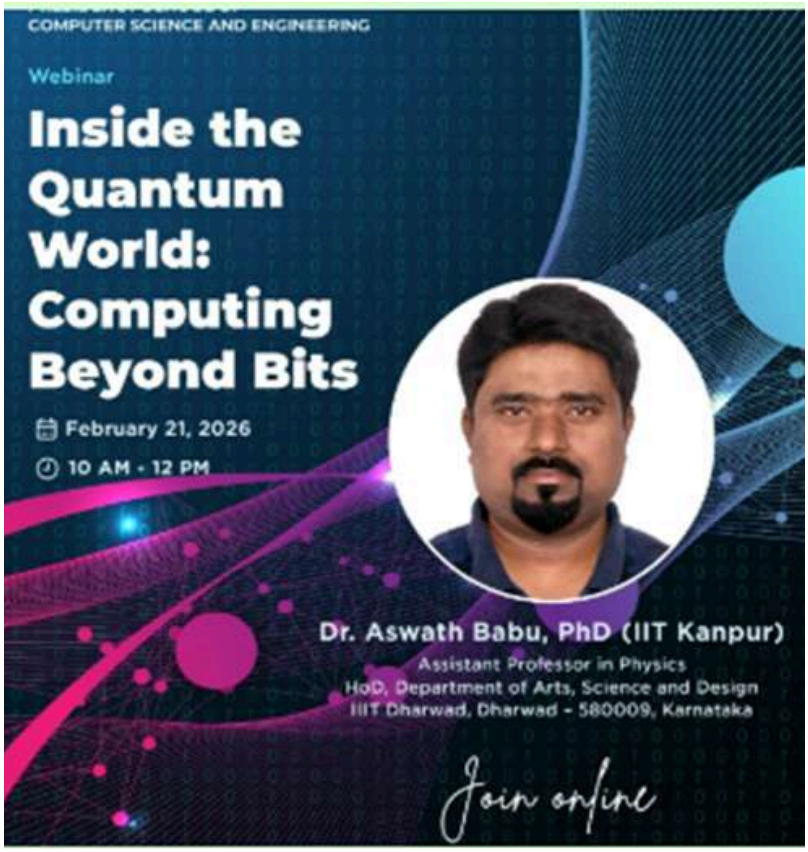
Dr. Jasmine David contributed to the review article "Advanced Soft Computing Paradigm for Crop Mapping Using Remote Sensing and Artificial Intelligence," emphasizing innovative AI-driven approaches for smart agriculture and precision crop monitoring.

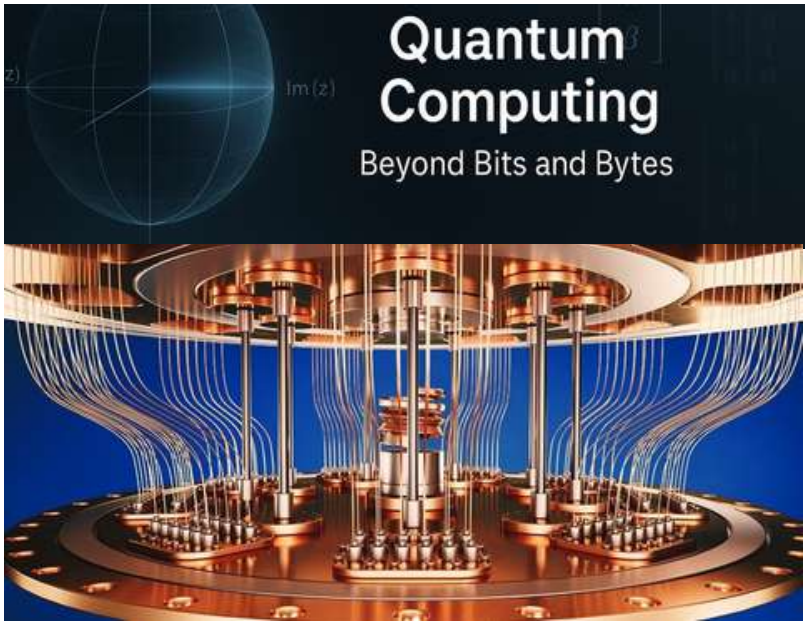
Dr. Jasmine David D.
Associate Professor

DEPT NEWS

M.Tech/MCA | B.Tech | BCA | B.Sc.

Inside the Quantum World: Computing Beyond Bits





The Presidency School of Computer Science and Engineering (PSCS) organized an online workshop titled "Inside the Quantum World: Computing Beyond Bits" on 21 February 2026 to introduce participants to the rapidly evolving field of quantum computing. The session aimed to provide foundational knowledge on how quantum technologies are transforming the future of computation beyond traditional binary systems.

The workshop was delivered by Dr. H. Aswath Babu, Assistant Professor in Physics and HoD, Department of Arts, Science and Design, IIIT Dharwad, Karnataka. The session covered important concepts such as qubits, superposition, entanglement, quantum gates, circuits, and quantum algorithms. Participants also explored the growing applications of quantum computing in areas such as cryptography, artificial intelligence, optimization, and scientific simulations.

The event was convened by Dr. Robin Rohit Vincent and coordinated by Ms. Rajitha Reddy, Mr. Likhith S.R., and Mr. Gyanesh Verma, Assistant Professors, PSCS. The workshop witnessed active participation from faculty members, students, and external participants, encouraging academic discussions and creating awareness about emerging research opportunities in quantum technologies.

DEPT NEWS

M.Tech/MCA | B.Tech | BCA | B.Sc.

SYNERGY 2026 – Industry-Academia Innovation Summit

The Presidency School of Computer Science and Engineering successfully organized SYNERGY 2026 – Industry–Academia Innovation Summit on 26–27 February 2026 at Presidency University, Bengaluru. The two-day summit brought together students, faculty members, researchers, and industry professionals to explore emerging technologies and strengthen collaboration between academia and industry.

The summit featured keynote talks, technical sessions, panel discussions, workshops, and innovation competitions conducted by experts from leading organizations including ServiceNow, JP Morgan Chase, Nokia, Tata Consultancy Services, K7 Computing, and Pente.ai. Discussions focused on trending domains such as Artificial Intelligence, Automation, Robotics, Cybersecurity, Internet of Things (IoT), Healthcare AI, and Industry 5.0 technologies.

A special Women-in-Tech leadership session and a workshop on AI Ethics and Governance highlighted the importance of inclusive innovation and responsible technology development. The summit also hosted a Startup, Research, and Innovation Expo, where students showcased innovative ideas and participated in competitions such as the Best Startup Innovation Award and Best Idea Award.

The event created an engaging platform for participants to interact with industry leaders, gain exposure to real-world technological challenges, and develop awareness of future research and innovation opportunities. The summit was coordinated by Dr. S. Poornima, Assistant Professor (Senior Scale), SoCSE, and Ms. Neha Seirah Biju, Assistant Professor, SoCSE.

DEPT NEWS

M.Tech/MCA | B.Tech | BCA | B.Sc.

Achieving Excellence: Mastering OBE for Impactful Learning

The School of Computer Science and Engineering organized a seminar titled "Achieving Excellence: Mastering OBE for Impactful Learning" on 24 January 2026 to enhance faculty understanding of Outcome-Based Education (OBE) practices and their significance in academic quality improvement and accreditation processes. The session aimed to strengthen knowledge on CO–PO mapping, attainment calculations, and continuous quality improvement methodologies.

The seminar was convened by Dr. Pallavi R. The session was handled by Dr. Praveena K N, Assistant Professor, Presidency University, who provided detailed insights into the principles of OBE, formulation of measurable Course Outcomes (COs), systematic CO–PO mapping techniques, and attainment analysis methods aligned with NBA and NAAC requirements.

Faculty members actively participated in discussions on designing effective COs, preparing OBE-compliant course files, and applying outcome mapping strategies for continuous quality improvement (CQI). The seminar witnessed participation from 21 faculty members and helped strengthen awareness about best practices in outcome-based academic planning and assessment.

DEPT NEWS

M.Tech/MCA | B.Tech | BCA | B.Sc.

Voices Beyond Boundaries: Women in Technology Shaping the Future

The Presidency School of Information Science (PSIS), Presidency University, Bengaluru, organized a panel discussion titled "Voices Beyond Boundaries: Women in Technology Shaping the Future" on 16 March 2026 as part of the International Women's Day celebrations. The event aimed to inspire students by highlighting the achievements and contributions of women leaders in technology.

A special highlight of the event was the demonstration of MCA student projects on women's safety applications, showcasing innovative solutions addressing real-world challenges. Students also presented a video titled "A Day Without Women's Inventions," emphasizing the impact of women's contributions to technology and society.

The session provided an inspiring platform for students to interact with industry experts, encouraging innovation, inclusivity, and leadership in technology.

Connected Creations: Exploring the New Age of IoT Innovation

1. Smart Home Control Panels(SONOFF NSPanel Pro Smart Home Control Panel)·

An advanced smart home dashboard that controls lighting, appliances, security, and IoT devices from one interface.

Price Range: Rs. 10000 to Rs.25000

Review:

The SONOFF NSPanel Pro is one of the most useful IoT products for modern smart homes. It combines automation, voice control, and device management into a single touchscreen interface. Its compatibility with smart ecosystems makes it ideal for connected living spaces. The product is highly efficient for energy management and home automation, though setup may require basic technical knowledge.

Product Link: https://www.sonoff.in/shop/sonoff-nspanel-pro-smart-home-control-panel-817?

2. AI-Powered Health Tracking Ring

ULTRAHUMAN Ring AIR Smart Ring with Activity Tracker ·

A smart wearable IoT ring that tracks sleep, movement, recovery, and health insights in real time.

Price Range: Rs. 25000 to Rs.30000

Review:

This smart ring is an innovative example of wearable IoT technology. It continuously monitors body activity, sleep quality, and wellness metrics using AI-powered analytics. Its lightweight design and accurate tracking make it popular among fitness enthusiasts and health-conscious users. However, the price is relatively high compared to traditional smart bands.

Product Link: https://www.amazon.in/ULTRAHUMAN-Ring-AIR-Subscription-Tracking/dp/B0CJV5HY1P?

3. Voice-Controlled Smart Display

Echo Show 5 Smart Speaker with Alexa ·

A compact smart display that integrates voice assistance, smart home control, entertainment, and automation.

Price Range: Rs. 5000 - 15000

Review:

The Echo Show 5 demonstrates how IoT is making homes smarter and more interactive. Users can control smart devices, view security cameras, access reminders, and interact with Alexa through voice commands. The device is easy to use and perfect for students or families exploring smart home ecosystems. Privacy concerns related to microphones and cameras remain a consideration for some users.

Product Link: https://www.amazon.in/Amazon-Echo-Show-5--3rd-Gen/dp/B09B2VNNCS?

4. Smart Home Automation Switch

Wipro Smart Switch Module 4 Switch Control Compatible with Alexa & Google Home ·

A smart IoT switch module that converts traditional electrical systems into voice-controlled smart automation systems.

Price Range: Rs. 1700

Review:

The Wipro Smart Switch Module is an affordable and practical IoT product for beginners in home automation. It allows users to control appliances remotely using mobile apps or voice assistants like Alexa and Google Home. The installation is simple, and it offers good reliability for daily automation needs. It is an excellent choice for creating budget-friendly smart homes.

Product Link: https://www.amazon.in/Switch-Module-Control-Compatible-Google/dp/B09XHSY1G3?

UNWIND ZONE

Smart World Around Us: IoT & Technology Crossword Puzzle

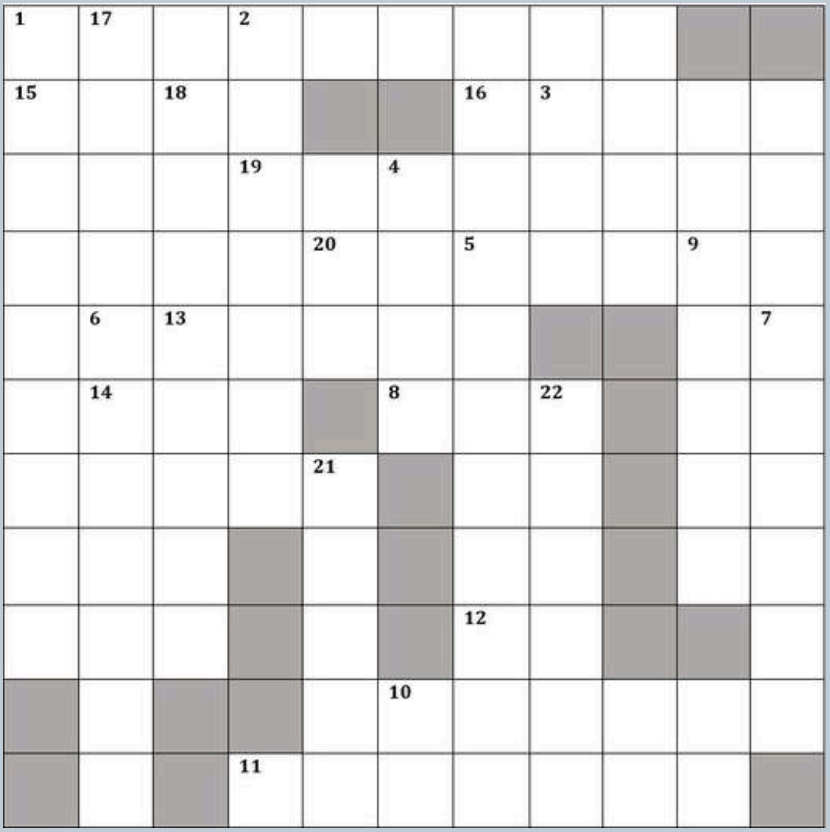
Across:

1.Detects or perceives stimuli from surroundings (5)
2. Provides services or resources to other computers (6)
3. Raw facts and figures used for processing (4)
4. Electronic equipment used in IoT systems (6)
5. Monitor or follow the movement of something (5)
6. Stores and processes data over the internet (5)
8. Network of connected smart devices (3)
10. A self-contained unit of a system (6)
11. Distribute data packets or signals across multiple nodes for parallel processing (7)
19. Basic unit of a network (4)
20. Simulation of human intelligence by machines (2)

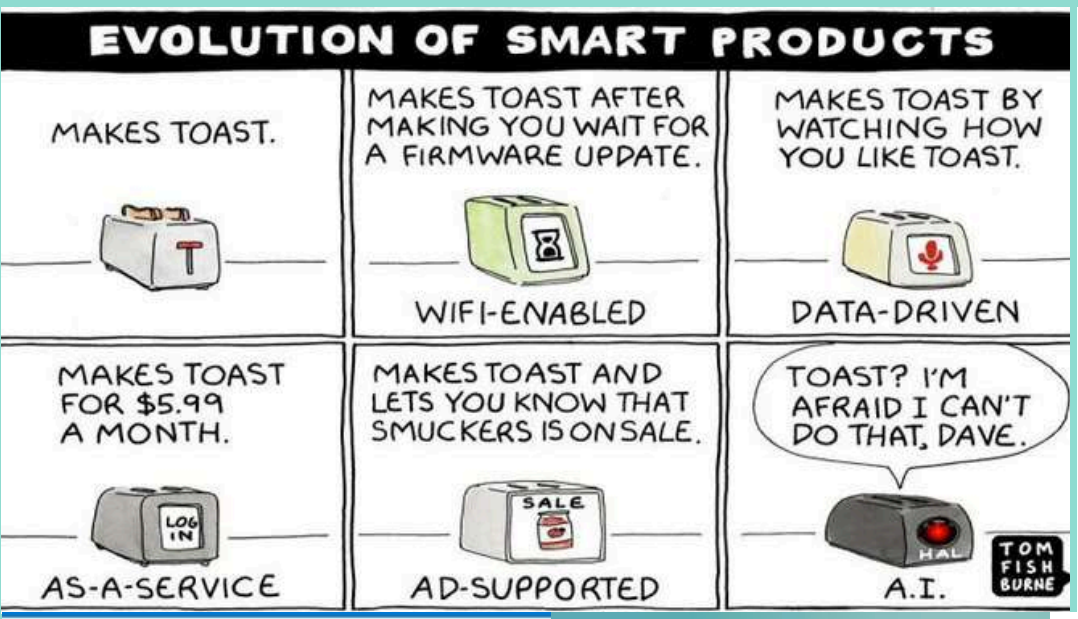
Down:

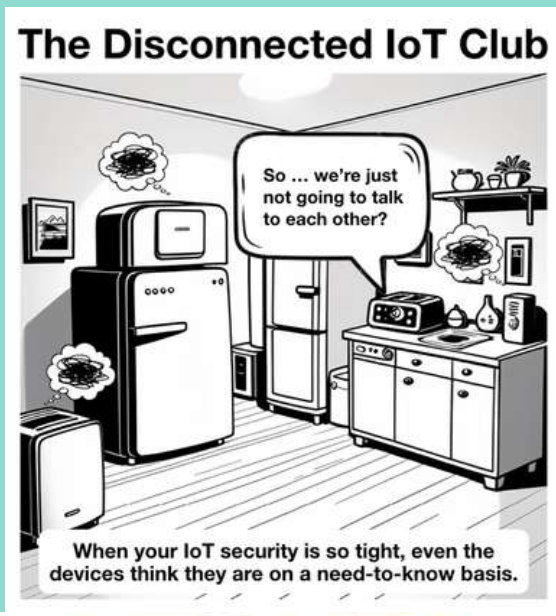
2. Device that detects and measures physical input (6)
7. Protected from unauthorized access (6)
9. Encodes and decodes digital data (5)
12. Automated program that performs tasks over the internet (3)
13. Open-source operating system (5)
14. State of physical and mental well-being (6)
15. Set of rules for data communication (8)
16. Interconnected system of devices (7)
17. Computing done near the data source (4)
18. Interface allowing communication between software (3)
21. Relates to medical field or treatment (5)
22. Application of scientific knowledge (4)

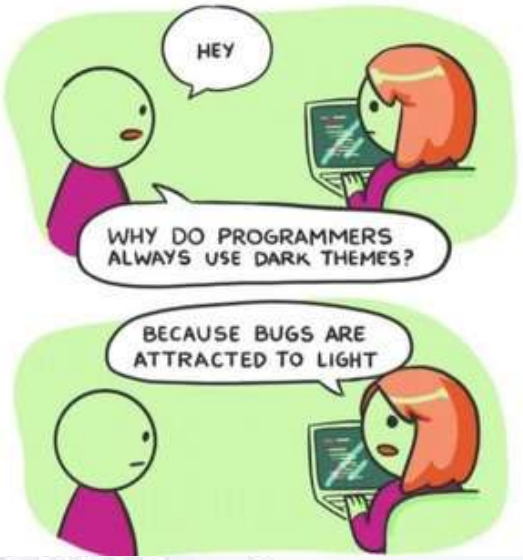
Ms. Lekhya Shree
Assistant Professor, PSIS
Presidency University, Bengaluru



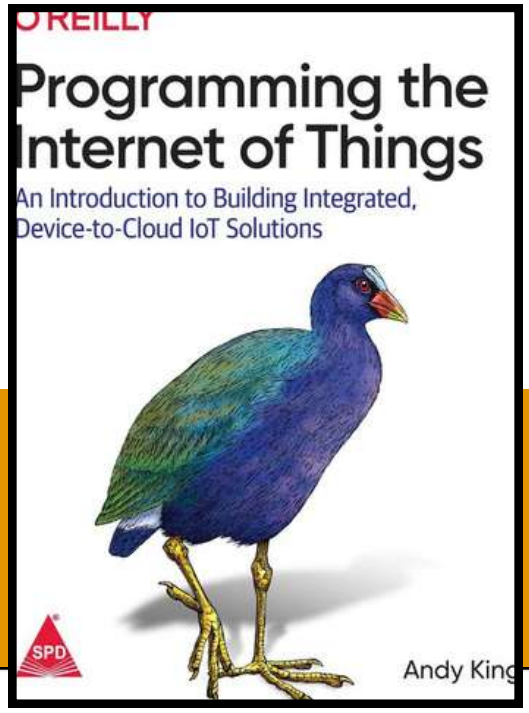
Connected Intelligence: Powering the Future with IoT







Best Seller



Book Review

Book Review: Programming the Internet of Things
Author: Andy King
Genre: Computer Science
Rating: (4.5/5)

Programming the Internet of Things is a practical and well-structured guide that introduces readers to the fundamentals of building complete IoT ecosystems—from connected devices to cloud-based services. Written by Andy King, the book simplifies complex IoT concepts using a step-by-step and hands-on approach, making it suitable for both students and developers.

One of the major strengths of the book is its focus on real-world IoT implementation. Instead of discussing only theoretical concepts, the author explains how to design and develop end-to-end IoT solutions involving sensors, gateways, cloud integration, and communication protocols such as MQTT and CoAP. The book also introduces development environments, software abstractions, and device-to-cloud communication using Python and Java.

⭐ Why Read It?

- Covers complete IoT architecture from edge devices to cloud
- Explains practical implementation using Python and Java
- Introduces protocols like MQTT and CoAP
- Includes real-world examples and development workflows
- Helpful for academic learning and industry projects

✅ Strengths

- Clear explanation of device-to-cloud communication
- Well-structured content suitable for students and beginners
- Includes real-world examples and implementation techniques
- Helpful for academic projects, research, and IoT applications

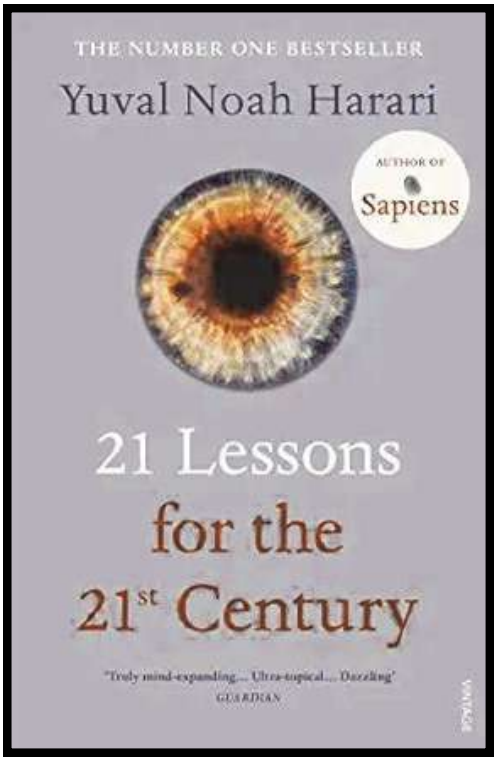
⚠️ Criticism & Limitations

- Some sections may feel technical for absolute beginners
- Requires basic programming knowledge for better understanding
- Less focus on advanced AI-integrated IoT application

⭐ Final Verdict

This book serves as an excellent foundation for anyone interested in IoT development and connected systems. Its practical orientation, organized explanations, and industry-relevant topics make it a valuable resource for students, researchers, and developers aiming to understand modern IoT ecosystems in depth.

Warm Regards,
The Editorial Board



21 LESSONS FOR THE 21ST CENTURY

Book Review: The power of positive thinking

Author: Yuval Noah Harari

Genre: Non-fiction / Society / Technology / Philosophy

Rating: (4.5/5) ★★★★½

21 Lessons for the 21st Century is a thought-provoking and intellectually engaging book that explores some of the most pressing issues facing humanity today. Written by Yuval Noah Harari, the book discusses modern challenges such as artificial intelligence, fake news, climate change, politics, religion, nationalism, and the future of human society. Rather than focusing on the past or distant future, the author examines the realities and uncertainties of the present century.

One of the greatest strengths of the book is Harari's ability to explain complex global issues in a simple and engaging manner. Each chapter presents a unique "lesson" that encourages readers to think critically about technology, ethics, identity, and human values in an increasingly digital world. The book raises important questions about privacy, automation, social media influence, and the role of humans in an AI-driven future.

The writing style is clear, insightful, and highly accessible, making the book suitable for students, researchers, professionals, and general readers alike. Harari combines historical understanding with modern analysis, helping readers connect current global events with larger philosophical and societal themes.

Why Read It?

- Encourages critical thinking about media, truth, and human behavior
- Explains complex global issues in simple and engaging language
- Broadens perspective on humanity, ethics, and the future

✅ Strengths

- Explains technology, AI, and politics in an easy-to-understand way
- Encourages critical thinking and self-reflection
- Insightful discussion on humanity, ethics, and the future
- Engaging writing style with real-world examples

⚠️ Criticism & Limitations

- Some topics are discussed broadly rather than in technical depth
- Certain viewpoints may feel opinion-based or controversial
- Requires thoughtful reading and reflection to fully appreciate the ideas

⭐ Final Verdict

21 Lessons for the 21st Century is an enlightening and relevant book that challenges readers to think deeply about the rapidly changing world around them. It is a highly recommended read for anyone interested in understanding the complexities of the 21st century.

Warm Regards,
The Editorial Board

Upcoming Faculty Development Programmes(FDPs)

Institute Name	FDP Thrust Area	FDP Title	Start Date	End Date	Link for registration
Jain Deemed-to-be University	Engineering and Management	ICT & AI in Teaching–Learning and Academic Practices	21-05-2026	27-05-2026	https://events.jainuniversity.ac.in/events/six-day-fdp-on-ict-ai-in-teachinglearning-and-academic-practices
Research Foundation of India in association with Parul university	Engineering and Management	R Programming for Budding Data Analysts	8-06-2026	18-06-2026	https://registration.rfiindia.com/data-r-programing/
Birla Institute of Technology, Mesra	Engineering and Management	Artificial Intelligence for Hyper Spectral Data Analytics	8-06-2026	12-06-2026	bitmesra.ac.in/Event_Files/Eventfc078a6c0d5945e79f87c7dfaf22bfd6_AI_HYDA_FDP.pdf
ISME, Bengaluru	Engineering and Management	Pedagogical Innovation & Research Integration: Enhancing Engagement Through Digital & Ai-Enabled Tools	1-06-2026	5-06-2026	https://www.isme.in/fdp-june-2026/
REVA University	Engineering and Management	NextGen Computing: Mathematical Models to AI in Computer Vision	18-05-2026	22-05-2026	https://www.eicta.iitk.ac.in/payment/generative-ai-for-computer-vision?mode=ONLINE

Upcoming Research Proposals

Upcoming Research Proposals from January 2026			
Sr.No	**Details of Proposal**	**Details of proposal Link**	**Important Dates**
1	**India Austria Science and Technology Cooperation**	https://onlinedst.gov.in/Projectproposalformat.aspx?Id=2175	**The last date for submission is 5th June 2026**
2	**India Finland Joint Innovation Call 2026**	https://tdb.gov.in/launch-india-finland-joint-innovation-call-2026	**The last date for submission is 28th August 2026**
3	**VAANI (Vibrant Advocacy for Advancement and Nurturing of Indian Languages)**	https://atalacademy.aicte.gov.in/vaani-documents	**The last date for submission is 17th May 2026**
4	**Internal Seed Grants, Presidency University**	Please fill out thishttps://forms.office.com/r/D2KnvTFEXd form	**The last date for submission is 16th August 2026**

Upcoming Conferences

Upcoming Conferences from 2026					
Sr. No	Institute Name	Conference Name	Date	Link of WebPage	Last Date of Paper Submission
1	Jawaharlal Nehru University, New Delhi, India	4th International Conference On Network and Cryptology	8- 10 October, 2026	https://www.netcrypt.org.in/	5/30/2026
2	R V College of Engineering	10th International Conference on Computational System and Information Technology for Sustainable Solutions	30- 31 October, 2026	https://csitss.ieee-rvce.org/	6/14/2026
3	KIIT Deemed to Be University, Bhubaneswar, India	4th IEEE International Conference on Industrial Electronics: Developments & Applications	30 - 31 October, 2026	https://icidea.kiit.ac.in/	15/7/2026
	Indian Society for VLSI Education, Ranchi	6th International Conference on Nanoelectronics Machine Learning Internet of Things & Computing Systems	21-22 November,2026	https://isve.in/nmic-2026/	6/30/2026
4	Manipal University Jaipur	1st International Conference on Deep Learning Innovations for Smart Humanized AI	17-19 December, 2026	https://www.disha2026.com/	6/10/2026

UPCOMING EVENTS

18 May 2026

Next-Generation Cyber security Powered by Artificial Intelligence FDP

25 May 2026

The Role of Artificial Intelligence in Modern Cyber Defense Systems

FDP

25 May 2026

Hands on Practices using AI Tools

Workshop

2 June 2026

Interview skills for future Professionals

SDP

2 July 2026

AI in CyberSecurity :Transforming Threat Detection and Digital Defense

Webinar

25 July2026

AI Conclave

Webinar

4 August 2026

Generative Adversarial Netwroks(GANs):The Art of Digital Forgery

Workshop

4 August 2026

Workshop on Virtual Reality

Workshop

8 August, 2026

ATAL FDP on Cutting Edge Advances in Artificial Intelligence

FDP

THE WRAP UP

As this edition of The Communique comes to a close, we reflect on the theme "Connected Intelligence: Powering the Future with IoT." In today's interconnected world, the Internet of Things (IoT) is transforming the way we live, work, and communicate. From smart homes and wearable devices to intelligent transportation and industrial automation, IoT is creating a future where technology works seamlessly to enhance everyday life.

Key Takeaways from This Edition

- Smart Connectivity for Better Living – IoT enables devices and systems to communicate intelligently, improving convenience, efficiency, and user experiences in daily life.
- Data-Driven Decision Making – Connected devices continuously collect and analyze data, helping organizations and individuals make smarter and faster decisions.
- Innovation Across Industries – IoT is revolutionizing sectors such as healthcare, agriculture, education, transportation, manufacturing, and environmental sustainability.
- Automation and Efficiency – Intelligent systems reduce manual effort, optimize resources, and increase productivity through real-time monitoring and automation.
- Building Smarter Communities – Smart cities, connected infrastructure, and digital ecosystems are shaping safer, greener, and more sustainable communities.
- Empowering the Next Generation – Encouraging innovation in IoT inspires students and future professionals to create technologies that solve real-world challenges and improve society.

Final Thoughts

Connected Intelligence: Powering the Future with IoT is more than a theme. It represents a future where smart technologies connect people, devices, and ideas to create meaningful impact. By embracing innovation and collaboration, we move toward a smarter, sustainable, and more connected world.

Vision of Presidency School of Computer Science and Engineering

Vision	To be a value-driven global University, excelling beyond peers, creating professionals of integrity and character, and having concern and care for society.

Mission of Presidency School of Computer Science and Engineering

Mission	Commit to be an innovative and inclusive institution by seeking excellence in teaching, research, and knowledge.
Mission	Pursue research and development and its dissemination to the community at large.
Mission	Create, sustain, and apply learning in an interdisciplinary environment with consideration for ethical, ecological, and economic aspects of nation-building.
Mission	Provide knowledge-based technological support and services to the industry in its growth and development.
Mission	To impart globally applicable skill sets to students through flexible course offerings, support industry's requirements, and inculcate a spirit of new venture.

PROGRAM SPECIFIC OUTCOMES (PSOs) FOR B.TECH

PSO1	Problem Analysis: Identify, formulate, research literature, and analyse complex engineering problems related to Software Engineering principles and practices, Programming and Computing technologies reaching substantiated conclusions using first principle of Mathematics, Natural Sciences and Engineering Sciences.
PSO2	Design/development of Solutions: Design solutions for complex engineering problems related to Software Engineering principles and practices, Programming and Computing technologies and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal and environmental considerations.
PSO3	Modern Tool usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities related to Software Engineering principles and practices, programming and computing technologies with the understanding of the limitations.

Vision of Presidency School of Information Science

Vision	To be a global centre of excellence in information science and research, fostering innovation and producing professionals with integrity and ethical responsibility.

Mission of Presidency School of Information Science

Mission	To provide high-quality education in information science, equipping students with strong technical expertise and problem-solving skills.
Mission	To promote research and innovation in information science and technology, addressing real-world challenges through industry collaboration.
Mission	To nurture graduates with strong ethical values and a commitment for lifelong learning for sustained professional growth in the IT sector and allied fields.

PROGRAM SPECIFIC OUTCOMES (PSOs) FOR BCA

PSO1	Disciplinary knowledge: Demonstrate comprehensive knowledge and understanding of Computer Applications, Data Science and AI/ML techniques.
PSO2	Problem Solving: Identify, formulate and apply appropriate techniques in the areas related to Software development, Big data, Network, Cloud computing technolgies and related domains of varying complexities in real-time applications.
PSO3	Design/development of Applications: Design, develop, and test full stack applications by applying principles of software engineering, addressing real-world requirements across various domains.

CONNECTED INTELLIGENCE:

POWERING THE FUTURE WITH IoT

THE COMMUNIQUE

VOLUME 2 ISSUE 4

CONNECT. Every Device

ANALYZE. Every Data

AUTOMATE. Every Process

EMPOWER. Every Future

Smarter connections.
Stronger tomorrow.
Limitless possibilities.

Let's Connect.