

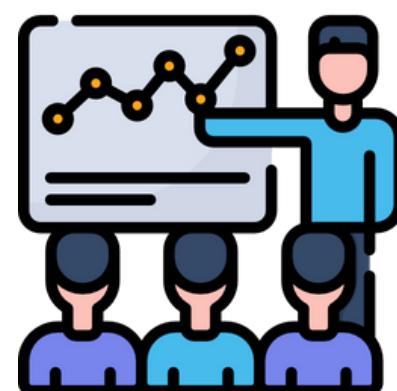
2022

Intel IoT Club

AMRITA VISHWA VIDYAPEETHAM, COIMBATORE



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1st batch

Openvino Training Session

7 FEB 2022

Intel IoT Club's first industrial training session on **Intel DevCloud** and **Intel OpenVINO toolkit**.

Sandeep Rajakrishnan (ML Lead) addressing the development and deployment of deep learning models.

Deepak Sai (Head) demonstrating a "Safety Detection" project, highlighting the benefits of OpenVINO to optimize AI models and test their performance on Intel DevCloud.



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Blog-a-thon

23 June 2022

A technical blog competition on **AI, ML, Deep Learning, and IoT** with entries exceeding 800 words.

Out of **30 contenders**, 5 emerged victorious providing an excellent platform for the students to showcase their writing and technical knowledge in AI and IoT.



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TECHNICAL BLOG-A-THON

TOPICS

AI ML IOT
DEELEARNING



23 JUN 2022

ONLINE

2022

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Breaking into AI 21 MAY 2022

The Intel IoT Club conducted its **first offline event**, Pie & AI - Amrita: Breaking into AI with over **500 registrations and 300 attendees**.

Deepak (Head) emphasized the importance of club participation.

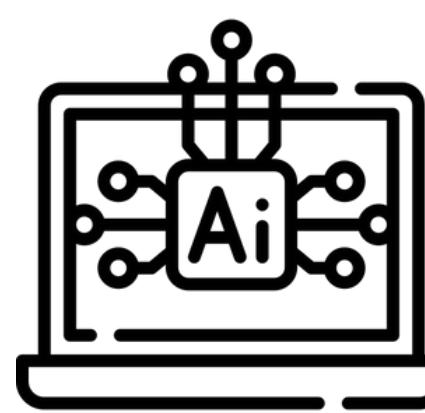
Prem Sundar (AI Lead) introduced AI and machine learning concepts.

Mohan (IoT Lead) discussed about IoT and its various use cases in smart cities and homes.

Dr. Anbazhagan (Faculty Coordinator) concluded by outlining upcoming events.



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Breaking into AIoT 15 NOV 2022

The **seminar** focused on IoT, AR, and Machine Learning, and relevant Intel technologies, drawing a massive response with **600 registrations and over 400 attendees**.

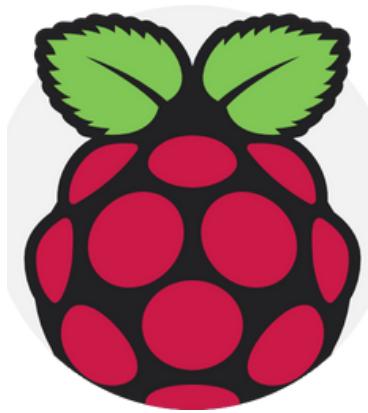
Mr. Navaneeth Malingan (Founder of Nunnari Labs, Coimbatore) shared insights on Opensource, Competitive Programming, and Entrepreneurship.



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Edge AI and HATs of Raspberry Pi 15 MAR 2023

A **webinar** on Edge AI and HATs of Raspberry Pi explored the basics of Raspberry Pi and its HATs (Hardware Attached on Top) **Mohan V (IoT Team Lead)** covering different Raspberry Pi HATs.

Deepak Sai (Head) discussed applications of **Edge AI** were discussed, emphasizing the benefits of **Intel oneAPI** for deploying cross-architecture applications.



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Hardware-on-Top(HAT)s of Raspberry Pi

IoT workshop - “Build your smart home” 23 APR 2023

An **IoT workshop** was conducted on building our own smart homes using Raspberry pi 3 and grove pi kit.

Mohan V (IoT Team Lead) and **Yash Puthalath (IoT Team Member)** presented the working of **raspberry pi 3 and grove pi kit**.

A total of **7 smart home devices** were built and the different use cases of the sensors were discussed in the workshop with **50 attendees**.

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2nd batch

Intel IoT Club Induction 2 FEB 2024

The Intel IoT club conducted its **second induction event** for the new academic year with **second batch - new 40 members** of the club.

Srinithi (IoT Lead) and Balasuriya (AI/ML Lead) presented the gathering about the emerging trends of IoT and AI.

Live demo of **Entry count system** was deployed in the hall which impressed the **200 attendees**.



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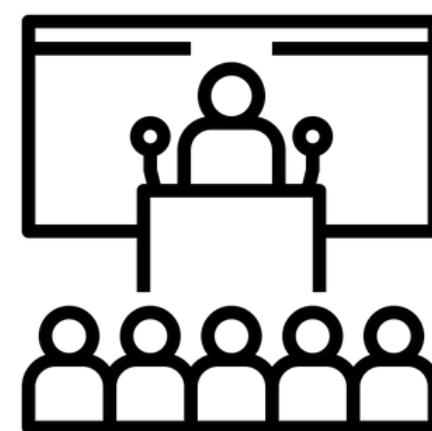
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IoT Competition 19 AUG 2023

An **IoT competition** conducted by **Mohan V(IoT Team Lead)** with a problem statement of creating an application with **grove pi kit** was held. Out of **20 applications**, the outstanding applications were **coal mine evacuation system, environment sense system, smart agriculture monitoring system**.

The participants of the previous workshop applied their newly acquired knowledge in this competition.

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2024

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Intel oneAPI Workshop 15 MAR 2024

A Intel oneAPI workshop was conducted with **70 attendees** explored different applications of Intel oneAPI.

The **Intel oneAPI student ambassadors** **Balasuriya and Navabharati** along with **Dilip P(ML Engineer at Sivi)** presented the real-world insights on oneAPI.

Participants were able to gain complete understanding about **Intel oneAPI** along with **Intel DevCloud**.



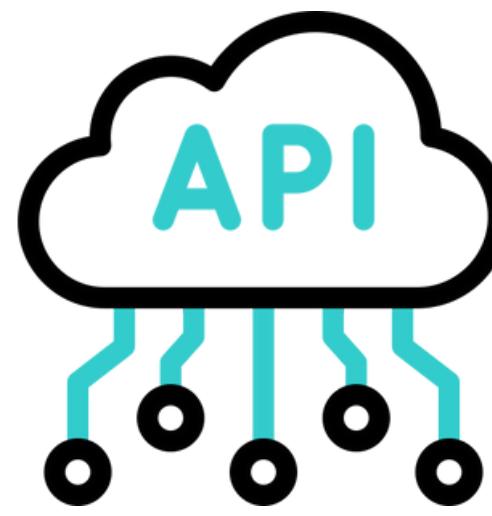
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PiCraft: Build a Game Server with Raspberry Pi 28 FEB 2024

An **IoT workshop** on building a **game server with Raspberry Pi** was conducted by **Dr. Anantha Narayanan and Mohan V.**

The **new IoT team members** presented the workshop using **Raspberry Pi 3 and grove pi kit**.

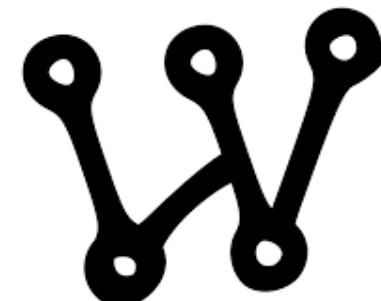
With **60 attendees**, the basics of IoT, Raspberry Pi and grove pi kit was taught and a game server was built using Raspberry Pi.



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3rd batch

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IoT simulation Webinar 21 JUL 2024

The IoT simulation webinar was conducted as part of ideation phase in **ESP2LIFE hackathon**. With **120 hackathon and non-hackathon participants**, the webinar reached a wider audience.

Mangal(Head) and Jaidev(IoT Team Lead) along with IoT team members presented IoT project integration with various cloud platforms like **Thingspeak, Adafruit, NodeRed.**, to create functional IoT simulation



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Wokwi Simulator: Hands-on Webinar 19 MAY 2024

The Wokwi Simulator Hands-on Webinar had **90 participants** who were introduced about the working of **Arduino, Raspberry Pi Pico and ESP32 simulation** through working on hands-on projects.

Mangal(Co-head) with the new IoT team explored **10 home automation IoT simulations** along with cloud platform integration.



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ESP2THINK: ESP32 AIoT Workshop

27 JUL 2024

The AIoT workshop with **50 participants** is a first-of-its-kind event to teach AI and IoT into an application.

Ananth(AIoT Team Lead) and **AIoT team members** demonstrated how to set up and use the **ESP32** and **MPU-6050 Accelerometer** sensor with **Edge Impulse** for data collection, model training, and deployment in machine learning applications.



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ESP2AR: ESP32 AR with IoT Workshop

6 AUG 2024

This AR with IoT workshop guided the **50 participants** through the process of gathering sensor data from an IoT platform and displaying it in augmented reality with **Unity Engine** and **BLYNK cloud platform**.

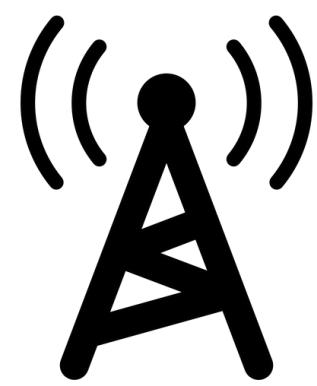
Jaidev(IoT Team lead) and **IoT Team members** explained controlling devices and monitoring data using **AR interfaces and ESP32 controllers**



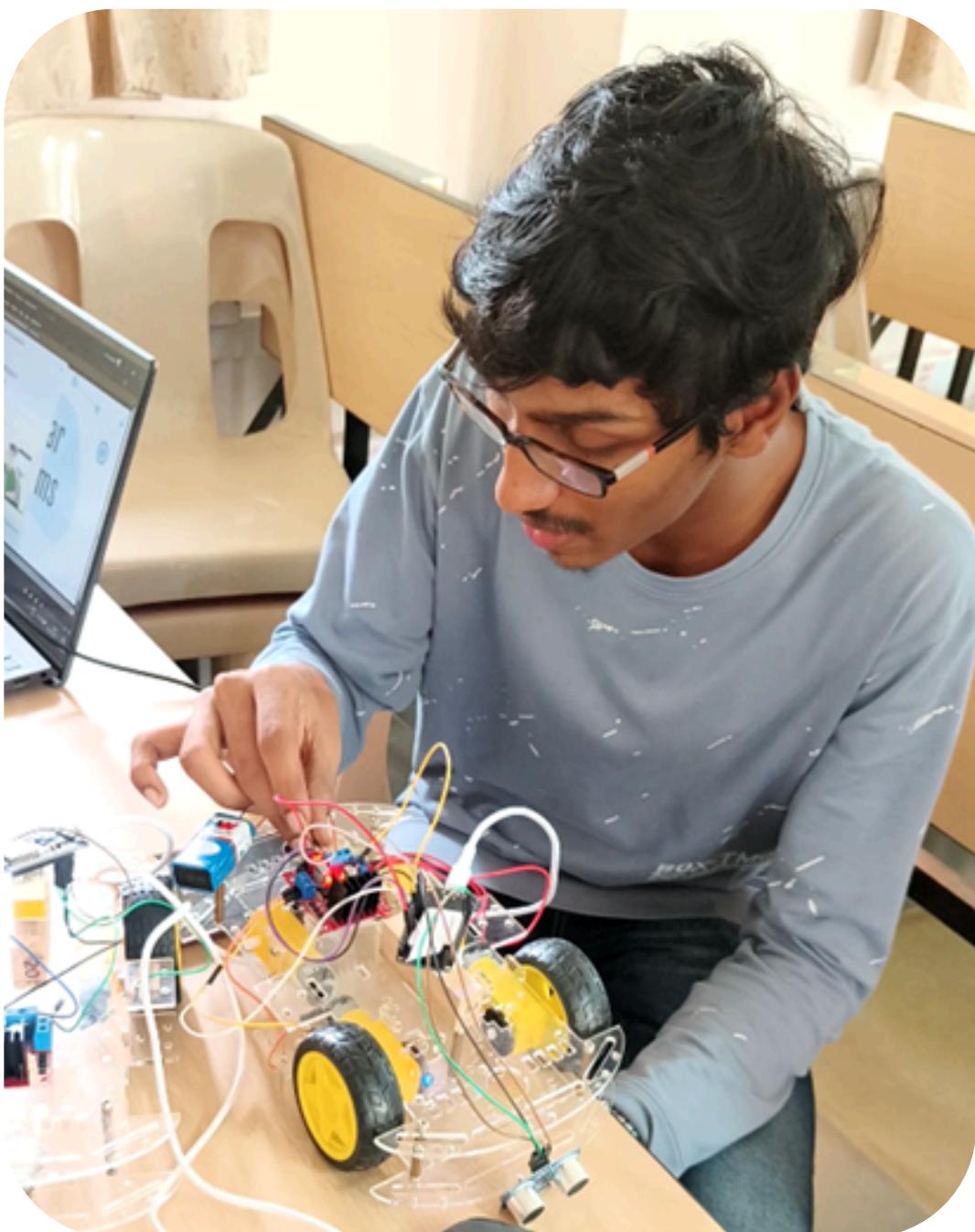
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ESP2SYNC: ESP32 Communication workshop

13 AUG 2024

The ESP32 communication workshop had **30 participants** who were introduced about the communication between ESP32 controller using **Cloud Platforms Adafruit, ESPNOW protocol, Wi-Fi Communication**.

Gurukarthi and Gurukumar(IoT team member) presented a mini project on controlling speed of two wheeled robots controlled by communication between ESP32 controller.

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ESP2LIFE Hackathon

15 MAR 2024

ESP2LIFE Hackathon is an **IoT product hackathon** with **50 teams** from various colleges explored different applications of ESP32 boards.

Those **4 workshops** were conducted in **ideation phase** to make participants learn the various concepts of **IoT** like **Wokwi simulation, AIoT, AR with IoT, Communication protocols**.

The **best 2 products** were displayed in **Anokha Tech fair** while all the participants gained an exposure on the applications of IoT and ESP32



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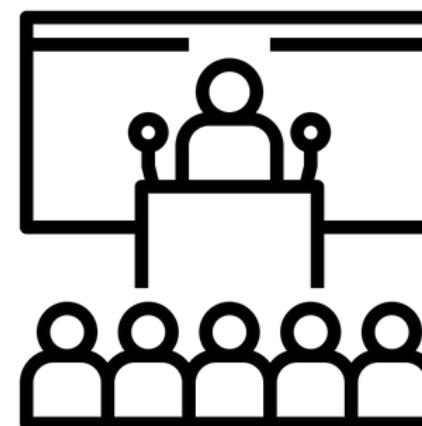
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Edge Fusion Showdown : An ESP32 AIoT Competition 18 OCT 2024

The Artificial intelligence of Things made into reality by deploying 1D and 2D ML models into edge places with ESP32 microcontroller.

With 20 teams in Anokha (National level Techfest) tech competition, application based 1D and 2D models were deployed into **ESP32** and **ESP32-CAM** boards using **Edge impulse platform**. For **Top 2 applications**, prize money were awarded.

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Intel IoT Club Induction 25 OCT 2024

New Club head Mangal conducted the 3rd Intel IoT club induction event for the new academic year 2024-2025 with 3rd batch - new 60 members of the club.

Jaidev (IoT Lead), Anath (AIoT Lead), Thomas (IoRT Lead) presented the gathering about the emerging trends of IoT, AI and Robotics.

Live demo of Face capture based Entry count system was deployed in the hall entry door which impressed the 100 attendees.



SYNERGY



Intel IoT Club

Amrita Vishwa Vidyapeetham, Coimbatore,
TamilNadu, India

Faculty Coordinator

Dr. Anbazhagan Mahadevan

Dr. Anantha Narayanan Velu

Core Team

Mangalasridhar - Club Head

Jaidev - IoT lead

Anathasivan - AIoT lead

Thomas Jefferson - IoRT Lead

Shyam Anand - Tech Support Lead

Vismaya V - Event Management Lead

Mohan V - Co-Founder & Student Mentor

Deepak Sai P - Founder & Intel IoT Student Ambassador



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