Sri SAI RAM ENGINEERING COLLEGE
An Autonomous Institution | Affiliated to Anna University & Approved by AICTE, New Delhi
Accredited by NBA and NAAC "A+" | An ISO 9001:2015 Certified and MHRD NIRF ranked institution
Sai Leo Nagar, West Tambaram, Chennai - 600 044. www.sairam.edu.in
Founder Chairman : MJF. Ln. Leo Muthu

1ST NATIONAL CONFERENCE ON ADVANCEMENT IN ARTIFICIAL INTELLIGENCE AND EMERGING TRENDS (NCAAIET'22)

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE, SRI SAIRAM ENGINEERING COLLEGE &

DEPARTMENT OF DCE, ECE, EEE, MECHANICAL, CIVIL, SRI SAIRAM POLYTECHNIC COLLEGE

Department of Artificial Intelligence and Data Science, Sri Sairam Engineering College in association with the departments of Sri Sairam Polytechnic College organized its 1ST NATIONAL CONFERENCE ON ADVANCEMENT IN ARTIFICIAL INTELLIGENCE AND EMERGING TRENDS on 3rd & 4th November, 2022.

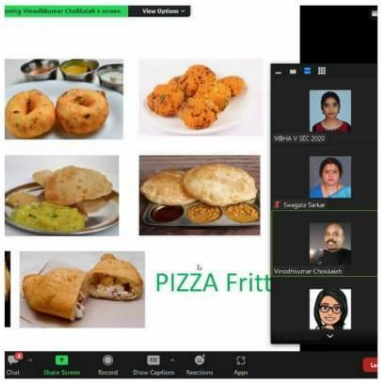
The National Conference on Advancement in Artificial Intelligence and Emerging Trends (NCAAIET 2022) intends to bring together academic researchers and industry practitioners to discuss advanced developmental activities in Computer Science, Information Technology, and Computational Engineering.

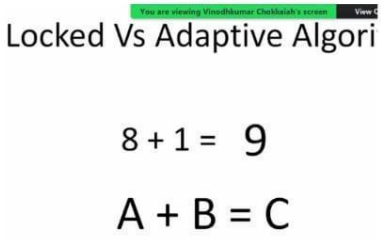
It offers a fantastic international forum for exchanging information and findings on theory, methodology, and applications of a variety of computational technology and science areas.

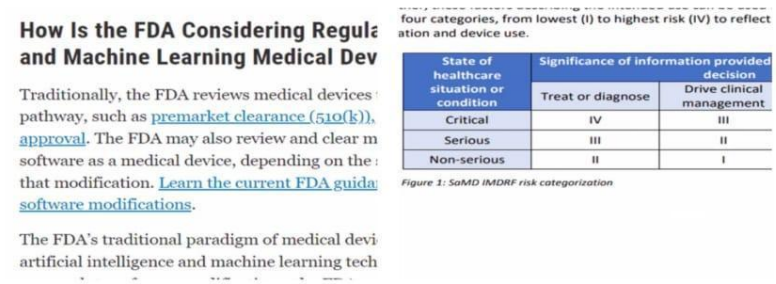
The conference gave participants the chance to share their knowledge, concepts, innovations, and problem-solving strategies while presenting original research on all facets of new scientific approaches for technologies, computational processes, software, and hardware solutions pertaining to particular scientific fields.

The Conference comprises Pre talk by renowned speakers.

On 31st October, 2022 the first conference Pre talk by Mr.Vinodhkumar Chokkaiah, Technical Manager. Cincinnati, Ohio, USA. He enlightened our students and participants with his talk on Artificial Intelligence in Healthcare







On November 1st, 2022, Mr.Bhargav Parthasarathy, Senior Business Analyst and Requirements Manager - Advisory ERP, Defence ERP Solution shared his talk on Artificial Intelligence and Robotic Intelligence used in Australian Defence and guided students with the Job opportunities available for an Artificial Intelligence.

Where Are We At - Artificial Intelligence - Phase Zero 'Capability Study'

Australia sits firmly within *Stage 1 – Aware*, and is currently lagging far behind adversaries and allies, like the United States, China, Korea, and Japan who are at *Stage 3 – Proactive*, in AI maturity. To reach the desired *Reactive – Proactive* target state, it is pivotal that Asutralian Defence work towards developing extensive foundational AI capabilities to securely and sustainably embedding AI proficiency within the organisation, allowing for the gradual unlocking of RAS and AI through iteration and controlled maturation.

The Study concluded that to become an effective AI enabled Australian Defence, maturity must be built across the foundational elements of Strategy, People, Process, Data and Technology. Based on competitor analysis, current state analysis and target state analysis, a practical roadmap for AI implementation and maturity across Australian Defence was developed and 16 core recommendations for building AI maturity across Australian Defence were presented to the Australian Defence Capability Committee in September 2021.

Why Defence Needs AI

Artificial Intelligence can deliver greater military effects with less resources. It is an essential technology for all warfighting domains – air & space, land, maritime, intelligence & cyber – and is at the heart of advances in situational awareness, decision support, weapons development, threat management and logistics.

For example why have a CPO searching through PMKeyS or Objective looking for information required to promote or post a member when an AI Automation or 'Bot' can do it much faster and easier thereby releasing the CPOET to do what he/she has been trained to do.

Where Are We At - Artificial Intelligence - Phase Zero 'Capabi

To this end, sixteen key recommendations were put forward, and amalgamated into five distinct Lines of Effort (LoE) to inform future AI enablement. They are:

- **AI Operating Model** – Define accountabilities and establish a central coordination hub and build factor.
- **Workforce Preparedness** – Ensure the workforce is prepared to adopt and embrace AI through learning and transition initiatives.
- **Data and Governance** – Establish good data practice, data systems and approaches for prioritising use cases.
- **AI Use Cases** – Progress AI use cases to realise value through AI.

On Day 3, There were two pre talk sessions. Dr.Sailesh Iyer, Professor & Dean, Rai University, Ahmedabad delivered his speech on Emerging AI Research Trends and Applications and Mr. Louis Bardouil, Philips Medical Tech Sales Engineer, France North gave a wide exposure about the Artificial Intelligence and Automation and made the session more interactive and interesting for the participants.


Expert talk on
Emerging AI research trends and applications
Dr. Sailesh Iyer
Professor & Dean,
Rai University,Ahmedabad


17 UN Sustainable Development Goals
SUSTAINABLE DEVELOPMENT GOALS

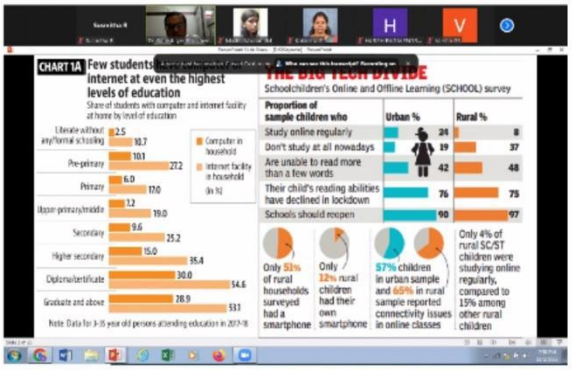
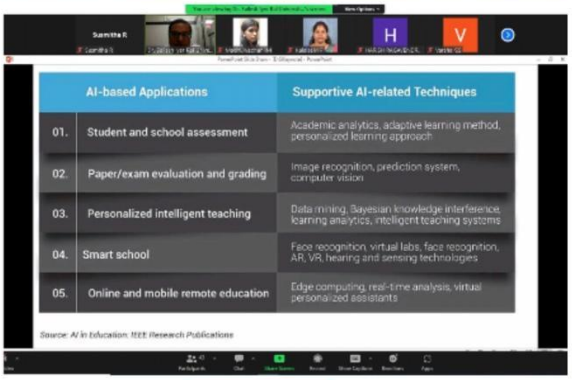
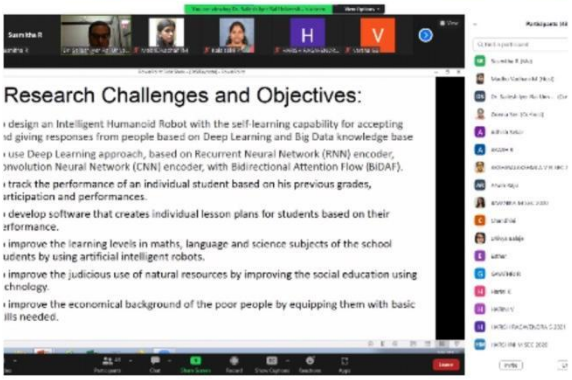
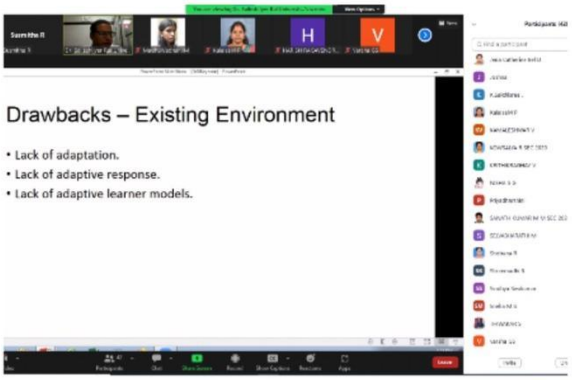


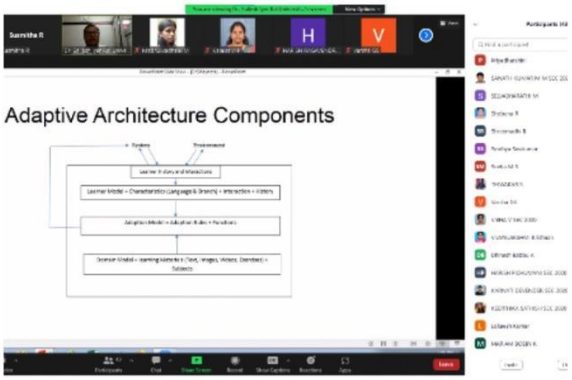
CHART 1A Few students have internet at even the highest levels of education
THE BIG TECH DIVIDE
School children's Online and Offline Learning (SCHOOL) survey
Proportion of sample children who
Urban %
Rural %
Study online regularly
Don't study at all nowadays
Are unable to read more than a few words
Their child's reading abilities have declined in lockdown
Schools should reopen
Only 31% of rural households surveyed had a smartphone
Only 12% rural children had their own smartphone
57% children in urban sample and 65% in rural sample reported connectivity issues in online classes
Only 4% of rural SC/ST children were studying online regularly, compared to 15% among other rural children


How Machine Learning is revolutionizing Education Sector?
• Adaptive Learning
• Predictive Analytics
• Increasing Efficiency
• Personalized Learning
• Learning Analytics
• Accurately grading Assignments

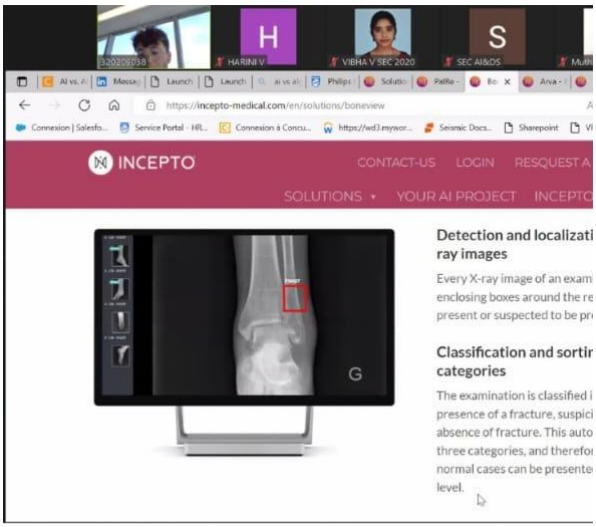

AI-based Applications
Supportive AI-related Techniques
01. Student and school assessment
Academic analytics, adaptive learning method, personalized learning approach
02. Paper/exam evaluation and grading
Image recognition, prediction system, computer vision
03. Personalized intelligent teaching
Data mining, Bayesian knowledge interference, learning analytics, intelligent teaching systems
04. Smart school
Face recognition, virtual labs, face recognition, AR, VR, hearing and sensing technologies
05. Online and mobile remote education
Edge computing, real-time analysis, virtual personalized assistants
Source: AI in Education: IEEE Research Publications

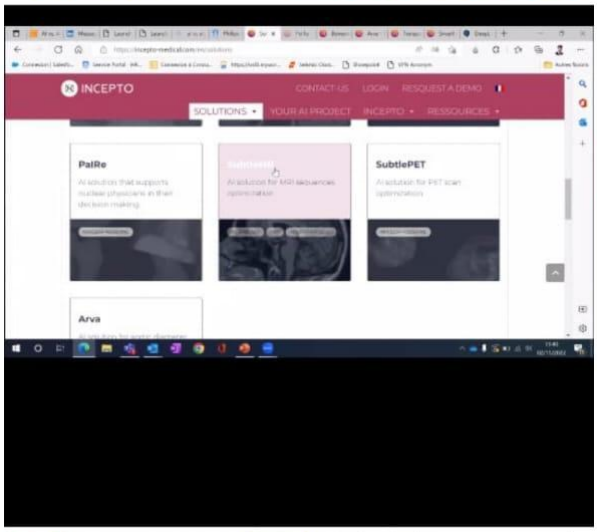

Research Challenges and Objectives:

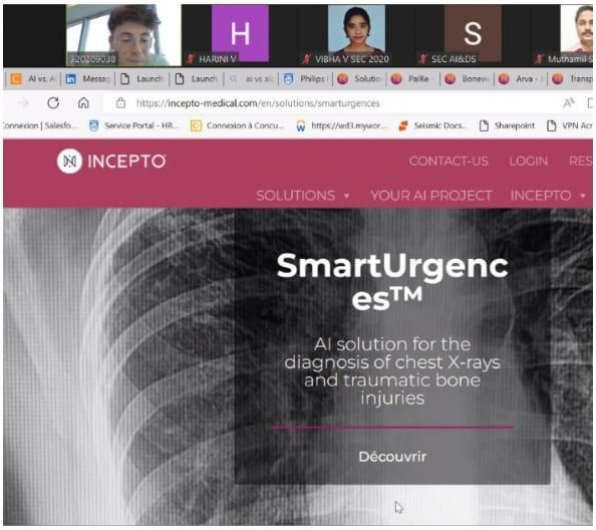

Drawbacks – Existing Environment
• Lack of adaptation.
• Lack of adaptive response.
• Lack of adaptive learner models.


Adaptive Architecture Components

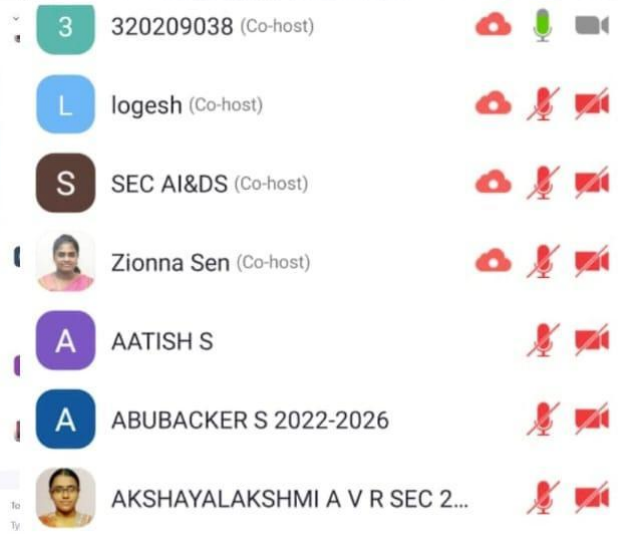

General Talk about the conference
Mr. Louis Bardoul
Philips Medical Tech,Sales Engineering
France North,East and IDF
ON 2nd November 2022
AT 6:00 PM
Mr.S.MuthamilSelvan
Mrs.P.Kalaiselvi
Co-ordinators
Dr. Swagata Sarkar
Head/AI-DS
Dr. K Porkumaran
Principal
Shri. Sai Prakash Leo Muthu
Chairman & CEO
Sairam Institutions


INCEPTO
CONTACT-US
LOGIN
SOLUTIONS
YOUR AI PROJECT
Detection and localizati
ray images
Classification and sortir
categories

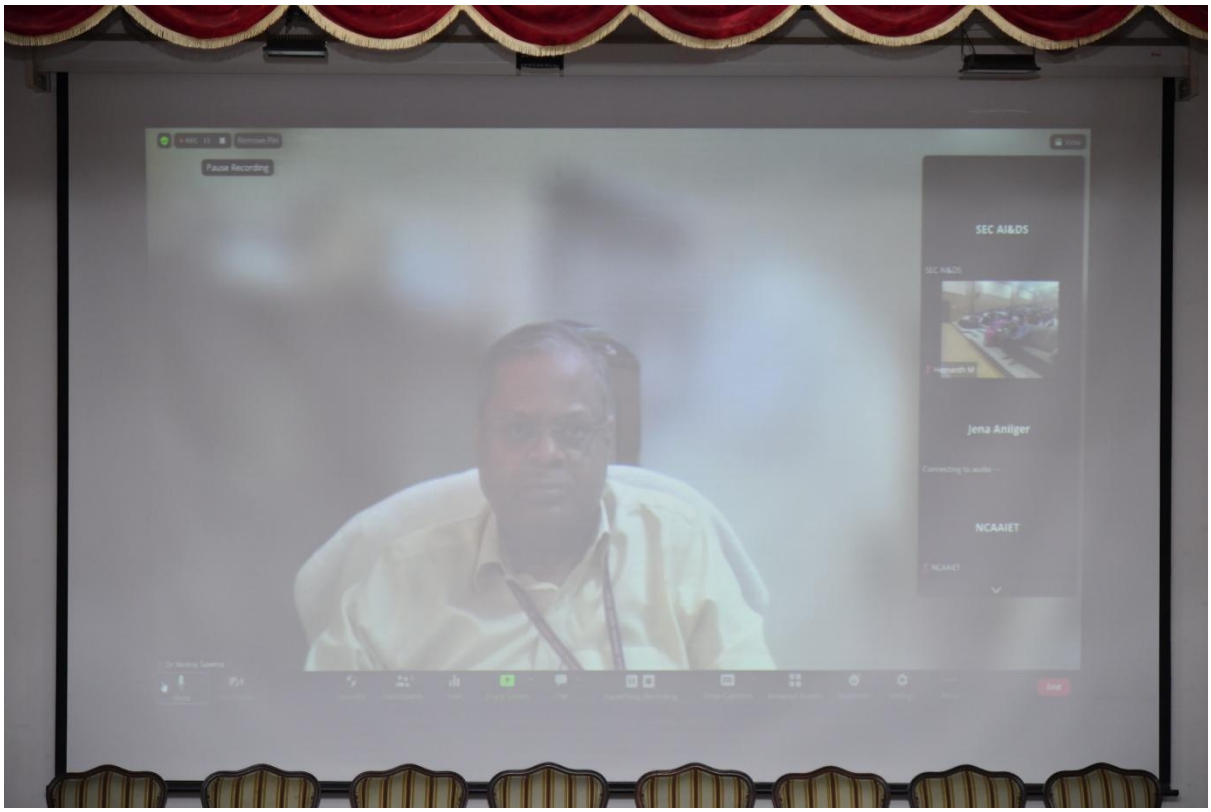

INCEPTO
PalRe
SubtlePET
Arva


INCEPTO
SmartUrgenc
esTM
AI solution for the
diagnosis of chest X-rays
and traumatic bone
injuries
Découvrir


S N VEDHIKA
SELVABHARATHI M


320209038 (Co-host)
logesh (Co-host)
SEC AI&DS (Co-host)
Zionna Sen (Co-host)
AATISH S
ABUBACKER S 2022-2026
AKSHAYALAKSHMI A V R SEC 2...

Our big day was on November 3rd, at 10:00 am the conference was inaugurated and Dr. Neeraja Saxena, Advisor I, Head of Institutional Development Cell, AICTE graced the occasion as the chief guest for the ceremony. Inaugural address was delivered by our beloved principal Dr.K.Porkumaran and Special address by Mr. K. Naresh Raj, Chief Information officer.



It was followed by Project Expo, three tracks of paper presentation and Hands on Training in Augmented reality and virtual reality. Eminent members from Academic and Industry delivered the key note speech and also act as the Judges for the event.

They are:

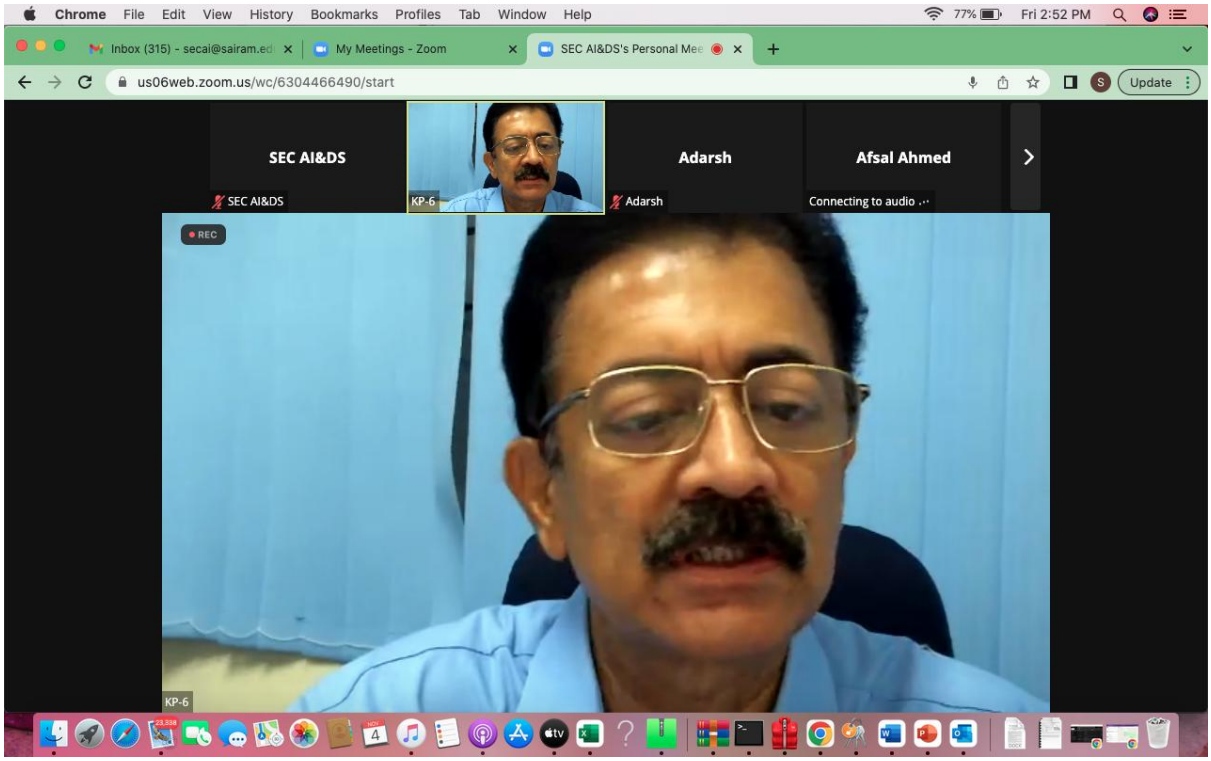
1. Dr.Kumaran, Assistant Professor, CSE, National Institute of Technology Puducherry, Karaikal
2. Dr.Gunasekaran, Profess
3. Dr. C.N.S Vinothkumar, Associate Professor, Department of Networking and Communications, School of Computing, SRM Institute of Science and Technology, Kattankulathur, Chennai
4. Mr.Ashvanth, Senior Associate, Technology Operations, MassMutual India, Vice Chair, IEEE Madras Young Professionals, Excom Member, IEEE Madras Section

On 4.11.2022 there was project expo, two tracks of paper presentation and Hands on training in Augmented reality and virtual reality. The key note speakers for day 2 of the conference are

1. Dr. E. Shanmugapriya, Assistant Professor, CSE, Anna University, Chennai
2. Mr.S.Padmanaban, Scientist, National Institute of Research in Tuberculosis (NIRT), ICMR, Chennai
3. Dr.A.Revathi, Assistant Professor, Dept of Computational Intelligence,SRM Institute of Science and Technology, Kattankulathur, Chennai

4. Dr.Sarooraj, Assistant Professor, Department of Information Technology, Rajalakshmi Engineering College.

On 4.11.2011 the Valedictory function of our conference is in place, Dr.R.Venkatesh, Chair MTS India section, Adjunct Professor, University of Massachusetts Dartmouth USA, Former Scientist NIOT is with us here as the Chief guest.



With the support of our beloved CEO Shri. Sai Prakash Leo Muthu and guidance of our Principal Dr.K.Porkumaran and support of our Head of the department, Dr.Swagata Sarkar we were able to organize the event successfully.

Screenshots

Project Expo

Paper Presentation

Hands on Training