



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY



SAKSHIN

MONTHLY NEWSLETTER OF DEPARTMENT OF
CSE/CSE(AI)

VISION

Nurturing globally competent Computer Science and Engineering graduates capable of taking challenges in the Industry and Research & Development activities

MISSION

Imparting quality education to meet the needs of industry, and to achieve excellence in teaching and learning

Inculcating value-based, socially committed professionalism for development of society

Providing support to promote quality research

ABOUT ASIET

Adi Shankara Institute of Engineering & Technology (ASIET) was established in Kalady with the goal of providing technical education that instills in students both professional excellence and strong ethical values. The institute is run by the Adi Shankara Trust, a well-respected educational organization that has been active for over 50 years.

Founded in 2001 and maintained by the Sringeri Mutt with the benign blessings of His Holiness Sri Sri Bharathi Tirtha Mahaswamiji, the college is dedicated to promoting the overall growth and development of its students.

ASIET is situated in a beautiful and inspiring location, reminiscent of the peaceful presence of Jagadguru Adi Shankaracharya. The college is affiliated with the A P J Abdul Kalam Technological University in Kerala, and is approved by the AICTE. It offers undergraduate, graduate, and PhD level courses, with four of its programs being NBA accredited (CSE, ECE, EEE & MECH) demonstrating its commitment to high-quality education.



AAKASHIEN :THE GRAND ALUMNI MEET-MAY 2023

AAKASHIEN, the grand alumni meet of B.tech, M.Tech, MBA Students of Adi Shankara Engineering college was conducted on 6th May 2023 in the college campus. It was an excellent opportunity for them to reconnect with their former classmates, professors, and relive the memories of their time at ASIET. The event was packed with exciting fun activities. They got a great opportunity to have a chance to learn about recent developments at the institution, catch up with old friends, and meet new ones.





ALUMNI AWARD WINNERS



Sreepa Prasannan

2003-2007 IT Batch
Project Manager Apps Team Technologies.
2016 - 2021 - Director/co-founder and
Product Owner
for Thivra Info Solutions an edtech and
gametech company



Varun P Nair

2004-08
Founder & MD, Infiniz IT Solutions,
Founder, AyAm Trading



Sharon V Shaji

2009-13 batch
Freelance drawing artist



Dr. MANUSANKAR C

2004-2008 BTech Batch
HOD, PG Department of Computer Science
,Sree Sankara Vidyapeetom College
ME, Anna University (2011)
MBA, Bharathiar University (2013)
PhD , MG University (2019)



Ajith R Pillai

2003-2007 IT Batch
QA Lead Engineer in Enfin
Technologies Pvt Ltd.



Elsa Sabu

2009-2013
Software Quality Analyst ,
Inspired Entertainment,
Infopark, Kochi





NEWS CORNER

JUNE 3RD 2023: Entrepreneurship Summit

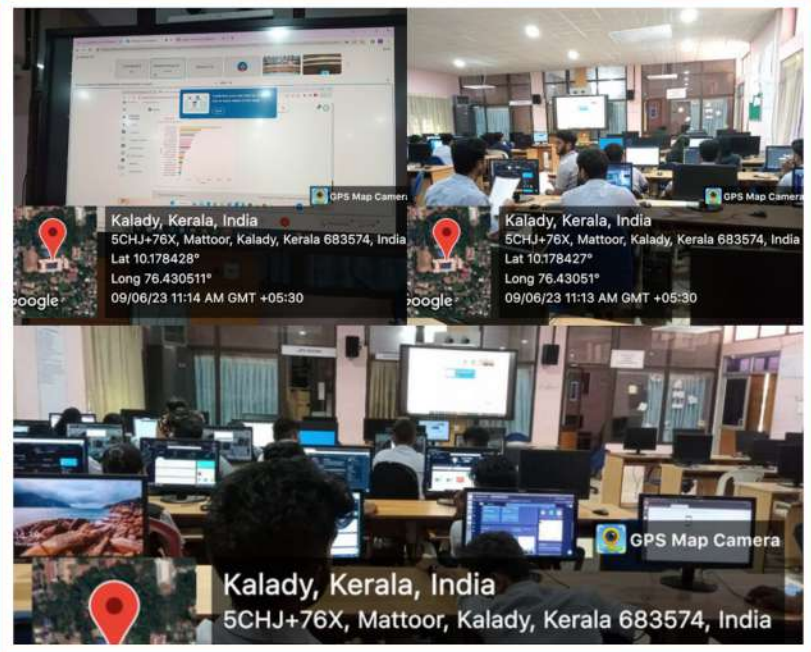
Vidya Academy of Science and Technology in Thrissur hosted the Vidya IEDC State Level Entrepreneurship Summit 2023, where Professor Ajay Basil Varghese was invited as a resource person. The event attracted 250 students from different colleges who participated in the summit.



9th JUNE 2023 : INFOSYS SPRINGBOARD

A certification drive session was conducted by Infosys Springboard on 9th June 2023.

The session was attended by CSE and CSE-AI students of S4 and S6 with much enthusiasm





NEWS CORNER

17th June 2023:

ASIET gets recognition for blood donation

In the field of blood donation, Adi Shankara Engineering College has won various awards. Under the NSS cell of Abdul Kalam Technological University, Novar Lal received the most blood donation awards in Ernakulam district. The best coordinator for coordinating blood donation activities, G Gokul, was honored. In the event organized at the LBS Institute of Technology for Women in Thiruvananthapuram, Minister Antony Raju inaugurated the function. Awards were presented by singer G Venugopal.

Adi Shankara Engineering College, which conducts the best blood donation activities in Ernakulam district, was felicitated by the IMA Center. The college also received certificates and awards from Anwar Sadath, MLA, to NSS Program Officer, Prof. Sijo George.

Under the leadership of NSS, blood donation activities of ASIET have provided assurance to numerous patients through hospitals and camps, which led to the acquisition of these awards.



24th JUNE

NOT ME... BUT YOU- CAMPAIGN AGAINST DENGUE FEVER

A joint campaign against dengue fever was organized by Kalady Grama Panchayat, the Government Hospital in Kalady, and the NSS units of ASIET. The program was inaugurated by Sri M. P. Antony, the President of Kalady Panchayath, with Smt. Ambika, the Vice President, presided over the function. Felicitation speeches were delivered by Ward member K. T. Eldhose, Medical officer Naseema Najeed, and junior health inspector Sasikala. The program was attended by ward members of Kalady Panchayat, health department officers, and Asha workers.

As part of the campaign, 123 NSS volunteers from ASIET visited approximately 1000 houses in the areas of Kalady, Piraroor, Manickamangalam, and Thottakom subcenters of the Government Hospital to raise awareness about dengue fever.



NEWS CORNER

17TH JUNE 2023 : DEBUTSAV

Aaron P Laju of S6 CSE-AI participated in Debutsav Kochi, a captivating event organized by FOSS MEC, held at Thrikkakara on 17th June 2023. The day kicked off promptly at 9:30 AM and continued until 5:30 PM, packed with insightful sessions and interactive workshops.

One of the highlights was the event being divided into two sets, each offering a unique learning experience. I opted for Set 1, which featured two remarkable speaker sessions. Andrew Bastin enlightened the students on the fascinating world of Syng, while Sahil Dilman shared his incredible journey as a Debian developer.

In addition to the speaker sessions, the workshops provided hands-on learning opportunities. Set 1's workshop on self-hosting, led by Adithya Anilkumar, was particularly memorable. Participants delved into the intricacies of self-hosting, discovering ways to personalize their online presence and take control of their digital lives.



JUNE 20: YOGA DAY

Adi Shankara Institute of Engineering and Technology (ASIET) in Kalady celebrated Yoga Day with great enthusiasm and participation, aiming to promote physical and mental well-being. The event included an enlightening speech emphasizing the importance of yoga in daily life. Students, faculty, and staff actively participated in guided yoga sessions by the Principal, practicing various asanas, breathing exercises, and meditation. The celebration provided a platform for relaxation, stress reduction, and awareness of the health benefits of regular yoga practice. ASIET's commitment to holistic well-being was reinforced, inspiring members to prioritize their health through yoga and ensuring support for students and staff.





ASPREN'23-FINAL YEAR PROJECT EXHIBITION

In collaboration with IEEE SB ASIET, ASIET organized ASPERN '23, an exhibition and contest showcasing the best final year projects. This event will be held at ASIET on 23 June 2023 from 9 AM to 5 PM. For ASPER-23, five projects were selected from each batch of B.tech students.

ASPREN'23

BEST PROJECT AWARDS FROM VARIOUS DEPARTMENTS

CSE-Robotic Station Assistant

Team members:- Abhijith Jaideep, Anusha PS, Alwin George

Guided by:- Prof. Divya KS

CE- Resuscitation of Manjali Thodu, Kerala, India:-Balancing societal priorities with technological possibilities.

Team members:- Bestin Baby, Anjanamol Jose, Nirmal Prince, Ashila Anil

Guided by :-Prof. Aneesh PC

EEE- Catastrophic hypervigilant system

Team members:- Ananthu Ashok, Ansal Khan, Aparna KS, Devika R Nair

Guided by:- Dr. Deepa Sankar

EC-Integrated Intelligent surveillance with deep learning

Team members:- Katherine, Manikandan AR, Sona Paul, Sabarinath MS

Guided by Prof. Arya Paul

ME-Oil Skimmer and waste water collecting device

Team members:- Rahul Das, Rahul V

Menon, Muhammad Shalom, Meenakshi R Nair

Guided by :-Prof. Ajith M S





ASPREN PROJECTS FROM CSE DEPARTMENT

Project No.1

ROBOTIC STATION ASSISTANT

Abhijith Jaideep, Anusha PS, Alwin George of S8 CSE

The purpose of a virtual assistant is to assist its user so they can have their daily activities done efficiently and without much hassle. In today's world we forget to enjoy our lives since we are lost in life's tribulations, working like a mechanical being who's trying to provide for their family and complete their everyday responsibilities. The aim of this project is to remind people that they don't have to do everything on their own, instead they can rely on one of the most useful tools created by man, that is their smartphone. The virtual Assistant that we introduce is not like the already existing systems in the market. We wish to cater to the needs of the people by making them feel that the assistant truly understands the heritage culture and language of the user using them in their own mother tongue especially in a country like India filled with diverse cultures. The virtual assistant will be run using natural language processing(NLP) which processes the voice input from the user. The text converted from the input is fed into the model which returns the appropriate response in the native language chosen by the user. Thus assisting the user to perform everyday tasks.



Asst Prof . Divya K S
Mentor



**Adi Shankara**
INSTITUTE OF ENGINEERING AND TECHNOLOGY

**NBA**
NATIONAL BOARD OF ASSOCIATION

ASPREN '23 - PROJECT EXPO
ROBOTIC STATION ASSISTANT
23 JUNE 2023**OBJECTIVES**

- Provide efficient and sophisticated aid.
- Enhancing operational productivity.
- Optimizing customer experience in the railway domain.

FEATURES

- Navigation to nearby facilities.
- Multilingual Capability.
- Live Train Status.

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Abhijith Jaideep



Alwin George



Anusha PS

**Best Project
Award
From CSE**



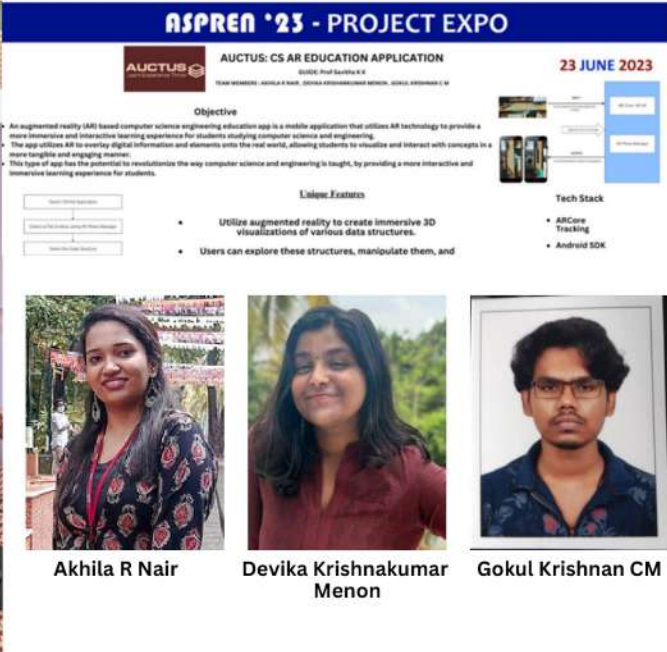

ASPREN PROJECTS FROM CSE DEPARTMENT

Project No.2

CS AR EDUCATION APPLICATION

Akhila R Nair, Devika Krishnakumar Menon, Gokul Krishnan CM of S8 CSE-A

- An augmented reality (AR) based computer science education app focused on teaching the implementation of data structures. The app utilizes AR technology to create an immersive and interactive learning experience, enabling students to visualize and manipulate data structures in a tangible and engaging way.
- The AR-based CS education app provides a user-friendly interface that guides students through the implementation of various data structures, such as linked lists, stacks, queues, trees, and graphs. Through interactive visualizations, students can observe the internal structure and behavior of these data structures, gaining a deeper understanding of their implementation principles.
- The app offers step-by-step tutorials and hands-on exercises to reinforce learning, allowing students to practice implementing data structures in a guided manner. They can interact with virtual objects representing the data structures, perform operations, and observe the resulting changes.
- Additionally, the app provides explanatory text, code snippets, and visual aids to support students' comprehension of data structure implementation. Students can explore the app's resources at their own pace, fostering self-directed learning and experimentation. By leveraging AR technology, this app enhances the traditional teaching of data structures implementation by offering a more interactive and intuitive learning experience. It enables students to bridge the gap between theory and practice, strengthening their programming skills and deepening their understanding of data structures in computer science.



ASPREN '23 - PROJECT EXPO

AUCTUS: CS AR EDUCATION APPLICATION

GUIDE: Prof. Savitha K K
TEAM MEMBERS: AKHILA R NAIR, DEVIKA KRISHNAKUMAR MENON, GOKUL KRISHNAN CM

23 JUNE 2023

Objective

An augmented reality (AR) based computer science engineering education app is a mobile application that utilizes AR technology to provide a more immersive and interactive learning experience for students studying computer science and engineering.

The app utilizes AR to overlay digital information and elements onto the real world, allowing students to visualize and interact with concepts in a more tangible and engaging manner.

This type of app has the potential to revolutionize the way computer science and engineering is taught, by providing a more interactive and immersive learning experience for students.




Unique Features

- Utilize augmented reality to create immersive 3D visualizations of various data structures.
- Users can explore these structures, manipulate them, and

Tech Stack

- ARCore Tracking
- Android SDK

Team Members:



Akhila R Nair **Devika Krishnakumar Menon** **Gokul Krishnan CM**

Prof. Savitha K K
Mentor



ASPREN PROJECTS FROM CSE DEPARTMENT

Project No.3

INTEGRATED AUTOMATED FARMING SYSTEM

Appu V A, Haritha M, Electta Varghese of S8 CSE-A

- The project develops a versatile robotic agricultural machine tailored for navigating along a straight line between the plants and performing various tasks. Equipped with sensors to monitor soil moisture levels, pH, temperature, humidity, and lighting conditions, the robotic vehicle ensures optimal conditions for crop growth. Real-time data is collected and transmitted to a mobile application via IoT communication, empowering farmers with continuous monitoring and control capabilities. In addition to environmental factors monitoring sensors embedded within
- This integrated system; machine learning framework incorporated within its structure permits quick identification & classification of plant diseases through image processing algorithms preventing their spread. Hence, on identification of such a disease the robotic vehicle automatically sprays pesticides instantly on time which allows for sustained crop health. The significant advantage of using an IoT-based model is that it provides a smooth flow of communication between devices, i.e., sensors and the central processing unit responsible for automating agricultural practices in real-time. The system also includes an automated irrigation mechanism that adjusts water supply based on real-time soil moisture readings. By optimizing irrigation, water usage can be minimized, reducing wastage and promoting sustainable water management practices. In conclusion, this project aims at introducing the potential success of innovative rooftop organic farming methods reiterating the ever-increasing importance of sustainable food production concepts worldwide towards achieving long-term ecological stability while addressing issues related to limited land availability and water scarcity, causing concern globally.



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Accredited Programmes
ISO 9001:2015 & ISO 14001:2015

ASPREN '23 - PROJECT EXPO

INTEGRATED AUTOMATED FARMING SYSTEM 23 JUNE 2023

Objective: Optimize terrace farming operations through automated and integrated technology.

FEATURES:

- Autonomously Navigation
- Precise Soil Moisture Sensing
- Crop Monitoring System
- Effective Pest Control
- Automation and Optimization



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TEAM MEMBERS:

Appu V A
Electta Varghese
Haritha M

GUIDE:

Prof. Shyama R



Electta Varghese



Haritha M Thayyil



Appu V A



Prof. Shyama R
Mentor



ASPREN PROJECTS FROM CSE DEPARTMENT

Project No.4

DETECTION OF DOS ATTACKS TOWARDS WI-FI

Akshara S Kumar, Dona Antony, C S Pooja of S8 CSE-A

The project aims to develop a lightweight and signature-based intrusion detection solution against modern DoS attacks like de-authentication and disassociation attacks. The devices using WPA/WPA2/WPA3 protocols are vulnerable to these attacks. The solution is a centralized plug and play system that can be implemented into any Wi-Fi based IoT environment without changing network settings, any firmware updates, or any other hardware integration. This system would offer continuous protection against contemporary DoS attacks, particularly in heterogeneous Wi-Fi and IoT networks.



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Accredited Programmes
ISO 9001:2015 & ISO 27001:2017

ASPREN '23 - PROJECT EXPO

ON THE DETECTION OF DOS ATTACKS TOWARDS WIFI 23 JUNE 2023

Objective : To detect DoS Attacks in smart environments using a plug and play system

Functions

Detect Deauthentication attacks
Detect Disassociation attacks



Team Members

Akshara S Kumar
C S Pooja
Dona Antony

Team Guide

Prof. Manesh T

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Dona Antony



Pooja V A



Akshara S Kumar



Prof. Manesh T
Mentor





ASPREN PROJECTS FROM CSE DEPARTMENT

Project No.5

EMERGENCY ASSISTANCE FOR PARALYZED USING EYE BLINK DETECTION

Alfiya MJ, Hamna Hassan VM, Abhishek Hareesan Menon

- There are three types of paralysis of the human body: Hemiplegia, Paraplegia and Quadriplegia. We have seen that there are many helping tools provided for stroke patients like Electrode implants, Robotic Arms, canes and some other devices are still under research. To control certain devices a patient should have actively moving fingers, which is not possible by quadriplegic patients. And these devices are not economically feasible or may not be efficient enough. In the above three cases eyes are non-injured and are one of the most active parts.
- The primary goal of this study is to create an interactive system that can help people who are paralyzed manage their daily routines. The technology can be utilized by many kinds of people and is designed to help the paraplegic and physically handicapped. In order to identify eye blinks, image processing techniques have been used. The patient's needs will be determined based on the frequency and pattern of eye blinks. We are using eye blinks for the patient to select from a set of general needs provided by us and, we are including a few general phrases that a patient may have, this can be used for general communication with the caretaker or loved ones of the patient. Also, we are including a feature where alerts can be sent to the caretaker's mobile in case of any emergency.

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**NBA**
National Board of Accreditation
EVALUATED PROGRAMME
(2013, 2016 & 2019)

ASPREN '23 - PROJECT EXPO

EMERGENCY ASSISTANCE FOR PARALYZED PATIENTS USING EYE BLINK DETECTION **23 JUNE 2023**

ACTIONS:

- Entertainment Options
- Food Options
- Prebuilt Messages
- Emergency Room Alert
- Messages send to



TEAM MEMBERS:

- Abhishek Menon
- Alfiya M J
- Hamna Hassan V M

GUIDE:

- Prof. Simi M S

Objective: To help paralyzed people for communicating their basic needs.

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Hamna Hassan VM


Abhishek Hareesan Menon


Alfiya MJ


Prof. Simi M S
Mentor



ASPREN PROJECTS FROM CSE DEPARTMENT

VOCALICIOUS - VOICE ASSISTED FOOD ORDERING SYSTEM

Jishma Murali, Joseph Jose, Lekshmi Sharma- S8 CSE

Project No.6

The web app is a convenient solution for food ordering at restaurants. It offers a unique feature that allows users to access the app through a QR code, eliminating the need to download a dedicated mobile application. Users can simply scan the QR code placed on the restaurant table, which instantly opens the web app on their devices. The standout feature of this app is its voice-assisted food ordering system. Users can speak their orders using natural language, making the process faster and more intuitive. The app also provides a user-friendly interface for browsing the menu, customizing orders, and making payments, ensuring a seamless and enjoyable dining experience.





ASPREN '23 - PROJECT EXPO

VOCALICIOUS : Voice Assisted Food Ordering Web Application 23 JUNE 2023

FEATURES

- QR Activated
- Voice Assistant
- Easy Navigation
- Better UI/UX
- Book A Table





TEAM MEMBERS
Jishma Murali
Joseph Jose
Lekshmi Sharma

GUIDE
Prof. Teena George

www.adishankara.ac.in



Lekshmi Sharma

Jishma Jose

Joseph Jose



Prof. Teena George
Mentor





ASPREN PROJECTS FROM CSE DEPARTMENT

Project No.7

MENTAL HEALTH WEB APPLICATION

Mridul Krishna P M, Sanath Savio Nelson, Sidharth Rajesh of S8 CSE

- The mental health web app is a Flask-based application that incorporates a chatbot to provide support and assistance to users. The app allows users to interact with the chatbot, which is powered by a trained neural network model. The model predicts the intent of the user's messages and generates appropriate responses.
- The app's front-end interface includes a homepage where users can input their messages and receive responses from the chatbot. The chatbot uses a bag-of-words approach to analyze the user's input and determine the intent. If the intent is recognized, the chatbot generates a response based on predefined patterns and intents stored in a JSON file. In case the intent is not recognized, a fallback response is provided.
- The web app aims to provide support for mental health by offering a convenient platform for users to express their thoughts and concerns. By engaging with the chatbot, users can receive relevant responses and potentially find comfort, guidance, or helpful resources. The app's interface is user-friendly, making it accessible to individuals seeking assistance with mental health issues.
- Overall, the mental health web app leverages natural language processing techniques and a trained neural network model to provide a supportive and interactive platform for users to address their mental health concerns.




ASPREN '23 - PROJECT EXPO

MENTAL HEALTH WEB APPLICATION **23 JUNE 2023**

Objective : Prioritizing mental health for a healthier future

Features


- ChatBot
- Recommend Videos
- Meditation Timer
- Journaling




Team Members

Mridul Krishna P M
Sanath Savio Nelson
Sidharth Rajesh


Guide
Prof. Rose Mary Varghese



Sanath Savio Nelson



Sidharth Rajesh



Mridul Krishna



Prof. Rosemary Varghese
Mentor



ASPREN PROJECTS FROM CSE DEPARTMENT

Project No.8

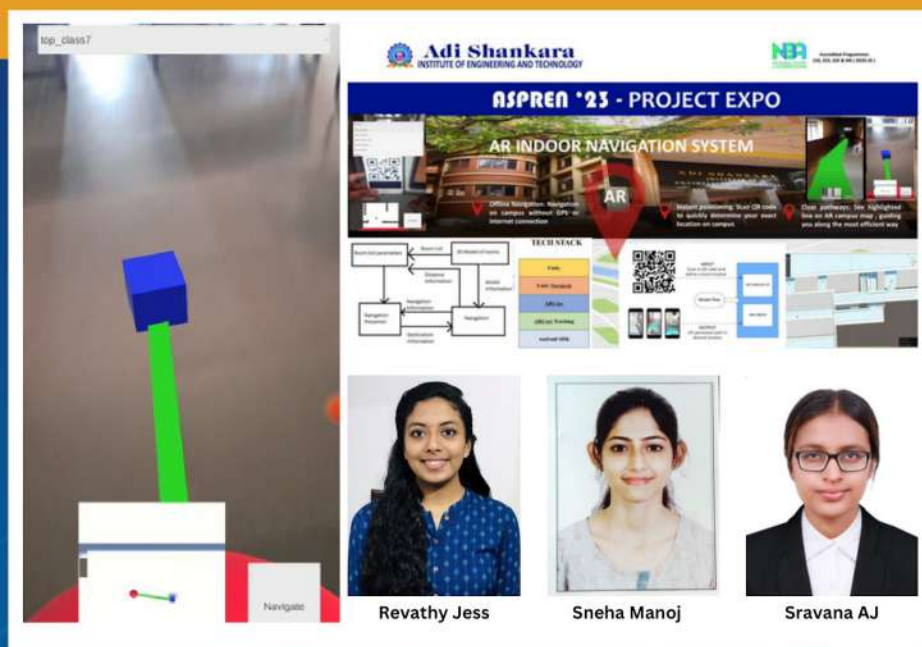
AR INDOOR NAVIGATION SYSTEM

Revathy Jess, Sneha Manoj, Sravana A J

Augmented Reality has started becoming a booming industry nowadays. Augmented reality is used for educational purposes, businesses and now in navigation of huge multi-complexes too. Augmented Reality makes work easier and more interesting with its various features, and a smaller number of hardware components at the same time. When navigating across expansive and complicated indoor spaces like malls, terminals, and healthcare facilities, indoor navigation systems are essential. Because of poor satellite reception indoors, traditional navigation solutions sometimes rely on GPS signals, which are inaccurate. The aim of our project is to look for all feasible technology in terms of Indoor Navigation and present a modest prototype as a solution. We suggest an inventive Indoor Navigation System that makes use of QR Code technology to get over this restriction.

In our system, essential indoor sites like corridors, junctions or lobbies are strategically marked with QR codes. The user uses a smartphone or other specific QR code scanner device to scan the QR code in order to navigate the system. The system then decodes the data from the QR code, including the user's present location and the routes that can be taken to reach desired locations. The area of the project's prototype is a huge Campus, that would provide students and guests with usability advantages and location finding features in the indoors of the college itself, particularly where the target is located. We implemented a prototype of the system and conducted a series of experiments. The results demonstrate the system's effectiveness in providing accurate and reliable navigation guidance.

The technology offers users dependable and precise interior navigation direction by using QR codes' pervasiveness and their capacity to store and transfer information. This project makes use of technologies like Unity, ARCore and Navmesh etc. The technology has a lot of potential for use in a variety of settings, including workplaces, hospitals and many more.



Prof Savitha K K
Mentor



ASPREN PROJECTS FROM CSE DEPARTMENT

Project No.9

COLLEGE BUS TRACKING SYSTEM

Meenakshi Ashokan, Musafir KY, N Niranjana

- A variety of technologies are increasingly recommending a sophisticated environment, and modern business practices are continuously improved through technological advancements. The most recent and rapidly evolving technology available to all consumers or users in today's industry is Android. Over the past few years, there has been a significant increase in end-user assent. The proposal focuses on utilizing the latest GPS technology on Android devices, enabling college students to monitor the movement of college buses, maintain a timetable, and access real-time bus positions.
- The seamless running of the bus system and vehicle switching are impacted by exceptional road conditions, traffic, unexpected delays, and dispatching events involving damaged vehicles. As a result, students' schedules are affected, necessitating wait times or efforts to catch their specific bus. The main goal of the application is to display precise bus positions on Google Maps for individual users, utilizing the driver's mobile device for location updates. The system operates in real-time, providing updated latitude and longitude coordinates every second via the driver's mobile device to the user's application through the Google Maps API. Users can view the estimated arrival time of their bus at the designated stop, allowing for advanced schedule planning.
- Additionally, users can check delay times if the bus is running behind schedule. The application also offers the option to directly pay bus fees through the college bus tracking system, with various payment methods such as credit cards or Net banking.

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**NBA**
Accredited Programmes
AACSB, ISO 9001:2015

ASPREN '23 - PROJECT EXPO

Campus Connect: College Bus Tracking System **23 JUNE 2023**

TECH STACK

- Flutter
- Dart
- Firebase
- Google Map API
- Razorpay







Features

- Real Time Bus Tracking
- View Arrival Time
- Bus Fee Payment

TEAM MEMBERS

Meenakshi Ashokan
Musafir KY
N Niranjana

GUIDE

Prof. Revathy Prasanna

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Meenakshi Ashokan


Musafir KY


N Niranjana


Prof Revathy Prasanna
Mentor



ASPREN PROJECTS FROM DEPARTMENT OF CSE

Project No.10

RAAGAM : FACIAL EMOTION DETECTION AND MUSICAL THERAPY WEBSITE Shruti Aswal, S Shankarakrishnan, Sruthilaya Jyothidas

Music is an integral part of our lives and plays a vital role in affecting our emotions and mood. Music streaming platforms offer a wide range of music genres and playlists, but users often struggle to discover new music that matches their current emotional state. Traditional recommendation algorithms based on listening history or user preferences may not be effective in addressing this problem. Manual selection of playlists or music genres based on emotional state can be time-consuming and cumbersome for users.

Music listeners have a tough time creating and segregating the playlist manually when they have hundreds of songs. This proposed method removes the time-consuming and tedious task of manually grouping songs into different lists of interest and helps in generating an appropriate playlist based on an individual's emotional features.

The Emotion-based music program would help people who are searching for music driven on emotion and emotional behavior. It could help to reduce the unnecessary computational time and thus increase the overall accuracy and efficiency of the system.

Facial recognition-based music recommendation is a relatively new notion in the world of music recommendation systems. The use of facial recognition as a method of assessing a user's mood and recommending music based on that mood is a novel technique, even though there have been numerous music recommendation systems based on user preferences, listening history, and genre classification. The idea of employing music as a type of therapy may benefit one's emotional and psychological health. Python and React JS would be a viable option for building the project.

The combination of these two technologies would allow for efficient data processing as well as a responsive and user-friendly interface. This project's innovative approach to music recommendation has the potential to revolutionize the music industry.

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INSTITUTE OF ENGINEERING AND TECHNOLOGY

NBA
Accredited Programmes
CPE, CCA, CCA & CCA (2024-25)

ASPREN '23 - PROJECT EXPO**RAAGAM : FACIAL EMOTION DETECTION AND MUSICAL THERAPY WEBSITE**
Done by : Shruti Aswal, Sruthilaya Jyothidas, S Shankarakrishnan
Guided by : Prabhu M, Assistant Professor
DEPARTMENT OF COMPUTER SCIENCE ENGINEERING**23 JUNE 2023****OBJECTIVE**
Introducing an Emotion-based music program that automates playlist creation based on individual emotional features. It alleviates the time-consuming task of manual song segregation and aids in generating playlists that cater to specific emotional needs. In our proposed system, a mood-based music player is created which performs real time mood detection and suggests songs as per detected mood.**TECH STACK**
REACT JS, JAVASCRIPT, STREAMLIT, MEDIAPIPE, PYTHON, OPEN CV, KERAS**UNIQUE FEATURES**
Detect Facial Expression and Detect Emotion; Suggest Playlist According to mood; Voice Assisted Therapy Botwww.adishankara.ac.in

Prof Prabhu M
Mentor



S Shankarakrishnan



Shruti Aswal



Sruthilaya Jyothidas



GRADUATION CEREMONY-SAMAVARTHANA-2023



We, the management, staff and students of ASIET cordially invite
your gracious presence for the grand finale ceremony

'SAMAVARTHANA 2023'

THE GRADUATION CEREMONY OF 19th B.TECH., 12th M.TECH. & 18th MBA BATCHES

Guest of Honour



DR. R. VELRAJ
Vice Chancellor - Anna University

On June 27, 2023, Samavartana 23, the graduation ceremony for final year B.Tech and MBA students, took place. Dr. R Velraj, the Vice Chancellor of Anna University, graced the occasion as the guest of honor. The ceremony commenced at 10 AM with the Guru Ashtakam, followed by a Welcome Address from the Principal, Dr. Sreepriya S. Sri. K Anand, the Managing Trustee of Adi Shankara Trust, delivered the Presidential Address.

Dr. R Velraj then delivered the inaugural address, followed by the distribution of awards to the students. Ms. Arya Paul welcomed the graduates to the ASIET Alumni community. The event concluded with a vote of thanks by the Student Representatives.





SIGNIFICANT ACHIVEMENTS OF 2023 PASSOUT STUDENTS

Academic Excellence Awards

ALFIYA M J



ACHIEVEMENTS

- Batch Topper 2019-2023 CSE with CGPA 9.26
- Final year project selected for CERD funding
- Member of IEI
- Member of Hack club ASIET
- Volunteer of Brahma 2k22
- Coordinated Hackathon - Adi Shankara Gameathon
- Third prize for Adi Shankara I2p Contest
- Internship at Azure skynet
- project selected for ASPAREN '23
- Participated in the finals of Asiet Hackathon

PLACEMENTS

- HSBC Technology India (9 LPA)
- Ernst & Young Private Limited
- Suyati Technologies

AADHITHYA NARAYANAN V A



ACHIEVEMENTS

- Batch Second Topper CSE 2019-2023 with CGPA 9.13
- Certified Specialist in Full Stack Development by ICT Academy of Kerala
- 1 year internship at Suyati Technologies with stipend
- 2 Months Remote Internship at TCS
- 1st prize in Coding Duo (Brahma 2k22)
- 1st prize in KodeX conducted by CSI
- Member of IEI
- Certified Specialist in Google Cloud Platform
- Coordinated Hackathon - Adi Shankara Gameathon

PLACEMENTS

- IBS Software
- Quest Global
- 6D Technologies
- Ernst & Young Private Limited

MERIN JAMES



ACHIEVEMENTS

- Batch Second Topper CSE 2019-2023 with CGPA 9.13
- 4th year representative of CS Association
- IEEE Student coordination team member
- Core committee member of Ashwamedha '22
- Financial head of Brahma '23
- Completed Flutter App internship
- Participated in Reverse Coding competition held at College of Engineering Trivandrum
- Secured 1st position in various arts events.

PLACEMENTS

- Acabes
- GadgeON
- Jobin & Jismi
- Exacore
- Speridian Technologies



SIGNIFICANT ACHIVEMENTS OF 2023 PASSOUT STUDENTS

Academic Excellence Awards

AJAY ANTU



ACHIEVEMENTS

- Academic Excellence Award Winner CSE 2019-2023 Batch with 9.08 CGPA
- 2 months remote internship at TCS
- Certified Specialist in Full Stack Development by ICT Academy of kerala
- 1st prize in Coding Duo (Brahma 2k22)
- 1st prize KodeX conducted by CSI -ASIET
- Participated in TinkerHub "Build from home" competition

PLACEMENTS

- Qburst
- Experion
- 6D Technologies
- Jobin & Jismi

ASHNA SAJU



ACHIEVEMENTS

- Academic Excellence Award Winner CSE 2019-2023 Batch with 9.05 CGPA
- Eligible for Minor Degree
- NPTEL Certification in 'Fundamentals of Artificial Intelligence and 'Wheeled Mobile Robots'
- Pursuing Minor degree in Robotics and Automation
- Member of IEI
- Volunteer of Brahma 2k23
- Member of Hack club ASIET
- Participated in the finals of Asiet Hackathon

PLACEMENTS

- IBS SOFTWARE
- EXPERION TECHNOLOGIES

Best Outgoing Student Award

ADITH MENON AJITHKUMAR



ACHIEVEMENTS

- Chairperson, Computer Science & Engineering Association, ASIET
- Vice Chairperson, IEEE Student Branch,
- ASIET Executive Committee Member, Brahma '23
- Core Committee Member, Ashwamedha '22
- Secretary, IEEE Student Branch ASIET
- IAS Secretary, IEEE Student Branch ASIET
- Internship at Pace Lab, Kochi

PLACEMENTS

- Federal Bank
- Quest Global
- Experion Technologies



SIGNIFICANT ACHIVEMENTS OF 2023 PASSOUT STUDENTS

Adit Menon receiving award
for best outgoing student from CSE



Alfiya M J receiving the academic
excellence award



Aadhithya Narayanan V A
receiving the academic excellence award



Merin James receiving the
academic excellence award



Ashna Saju receiving the academic
excellence award



Ajay Antu receiving the academic
excellence award





JUNE 23

SAMAVARTHANA-2023-GALLERY



SCAN TO DOWNLOD
MORE PICS



INDUSTRY-ACADEMIA INTERACTION

21st JUNE 2023

We are delighted to share that **Dr. Seema and Dr. Muralidharan**, esteemed Senior Scientists from **CMET in Trissur**, recently paid a visit to the ASIET campus. The purpose of their visit was to engage in a productive discussion and evaluate a project proposal that had been submitted to **MeitY (Ministry of Electronics and Information Technology)**.

Our principal, **Dr. Sreepriya S**, and **Dr. Ajay Kumar**, **Prof. P. V Rajaraman**, **Prof. Manesh T**, and **Prof. Albins Paul** were also took part in this discussion.

During the insightful conversation, Dr. Seema brought to light the immense potential for a research alliance between ASIET and CMET. This alliance, if established, holds the promise of offering substantial support for government-funded faculty and research projects. By joining forces, the two institutions can pave the way for enhanced research capabilities, leading to significant technological advancements.

Stay tuned for further updates on the progress of this exciting endeavor as ASIET continues its journey towards excellence in research, education, and technological advancements.





PHOTO SHOOT 2019-23 BATCH

S8 CSE A BATCH



S8 CSE-B BATCH





PHOTO SHOOT 2019-23 BATCH

2019-23 CSE DEPARTMENT



Placement Record of 2023
Passout Batch

SENT OFF PARTY TO S8 STUDENTS



In a heartwarming gesture of affection and appreciation, the Department of Computer Science and Engineering (CSE) recently organized a small send-off party for our beloved final year students. The event was a heartfelt tribute to honor their academic journey and celebrate the milestones they have achieved.

The send-off party served as a platform for faculty members, staff, and fellow students to express their love, gratitude, and best wishes to the graduating class. It was a beautiful moment filled with laughter, memories, and heartfelt speeches that highlighted the remarkable accomplishments of our dear students.





STUDENTS CORNER

- As part of Aspren'23 held on June 23rd, Fernando J and Akshay S of S4 CSE-AI presented a game developed by them using Unity and Blender. The game was played by many school students who attended the exhibition.
- Sanjay Gireesan from S6 CSE B Completed Google data Analytics Certificate from Coursera
- Arya NV and Malavika Muraleedharan of S2 CSE AI attended the yoga day function at our college.
- Swathi Dinesh of S4 CSE-AI completed the Digital Marketing course offered by Google.
- Muhammad Baakir ,Paul eldhose,Sai Asok, Rishfana E A,Srekha Ravi, Saniya E S Shivaranjini R, Shivaranjini N, Nayana, Parvathi S from S2 CSE C attended the NSS dengue



Anjana Rajesh of S2 CSE bagged the first prize of NOVUS, conducted by IEEE SB ASIET

Manuel Saju of S4 CSE came 2nd in NOVUS, conducted by IEEE SB ASIET



AMRITHA R of S6 CSE A completed 8 Week MOOC course



STUDENTS ACHIEVEMENTS



Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY



Congratulations!

STUDENTS SELECTED FOR PAID INTERNSHIP AT



Antony Thomas
S6 CSE



Ashwin Raguraj
S6 CSE



K K Haridev
S6 CSE



U Harikrishnan
S6 CSE



Roshan Davis
S6 CSE



Sreeram K R
S6 ECE



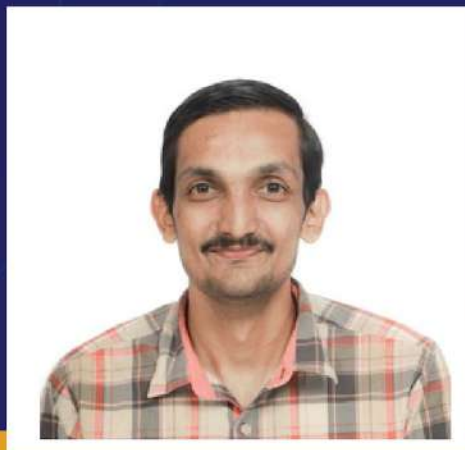
Yadhukrishnan M S
S6 CSE(AI)



Jaison T Poullose
S6 ECE



WELCOME ONBOARD



Dr. Hari Narayanan A G joins Dept. of CSE as Assistant Professor, He holds a PhD in Computer Science from Noorul Islam Centre for Higher Education, Thuckalay. With a post-graduation in Computer Application (MCA) from Sastra University, he has exhibited a strong academic prowess. Dr. Hari Narayanan completed his graduation from MK University, Madurai.

Previously, Dr. Hari Narayanan served as an Assistant Professor at Amrita Vishwa Vidyapeetham Kochi Campus. Over the course of fifteen years, he has excelled in both academia and industry, becoming a seasoned expert in the field.

Dr. Hari Narayanan's contributions to research are exceptional, with more than 20 research publications to his credit. Notably, 19 of these publications have been indexed in Scopus, demonstrating the significance and impact of his work. He received two national recognitions from the Computer Society of India (CSI) in 2018 and 2019.

With his profound knowledge, extensive experience, and notable research contributions, Dr. Hari Narayanan A G continues to make valuable contributions to the academic and professional landscape in the field of computer science.



JUNE 23

INTERNSHIP OPPORTUNITIES FROM ADI SHANKARA SKILL KENDRA

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- The program now recruits on behalf of three institutions (the World Bank, IFC and MIGA).
- WBG YPP is a two-year leadership development program at the start of a five-year employment contract with the World Bank.
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Ministry of Micro, Small and Medium Enterprises

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Individual category has now been recategorised into Student and Others. Now Three categories (Women Owned MSME, Women Student, Other Women Benefits of MSME idea hackathon

Financial assistance up-to maximum of Rs. 15 lakh per approved idea shall be provided to Host Institute for developing and nurturing of the idea into prototype Click the link my.msme.gov.in/inc

[Adi Shankara TBI is recognised by MSME and offers support for incubating your ideas](#)

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Career Launchpad: The Guaranteed Placement Webinar

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20 JULY 2023
5.00 PM**

**RHEA SHARMA
(INSTRUCTIONAL DESIGNER)**

internshala.com/i/cf-webinar

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Project Duration: 1 year
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For queries contact: sravani.sannareddy@ihub-data.iiit.ac.in



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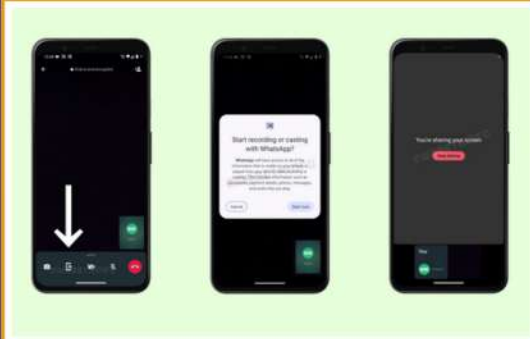
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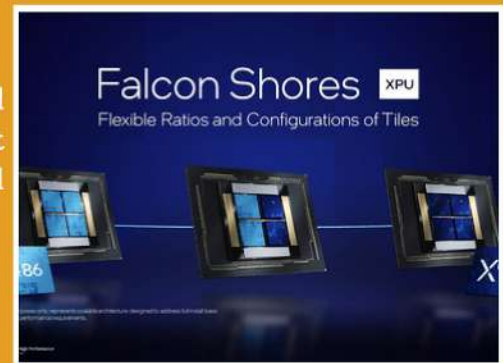


TECH NEWS



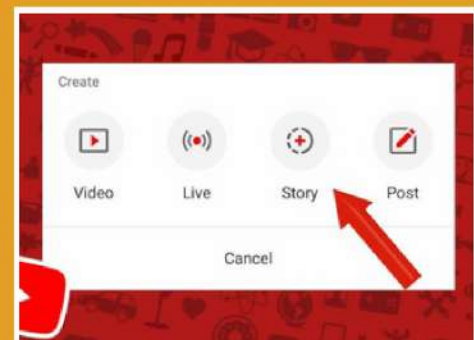
Whatsapp will soon support screen sharing in android devices. WhatsApp is working on companion mode for iPad users which may help in linking up to 4 devices to an account, securely.

Intel is shifting its strategy to compete with Nvidia and advanced micro devices. They announced their next Falcon Shore processor at the International Supercomputing Conference in Germany.



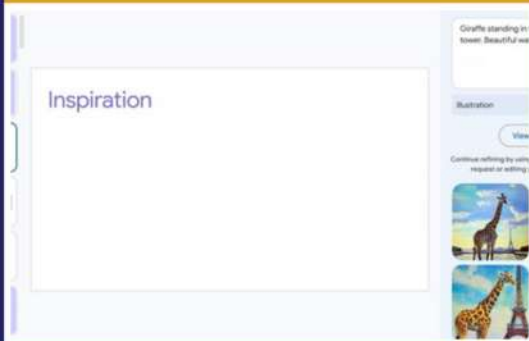
TikTok in early stages of testing an AI chatbot, Tako, that can converse with users on short videos and help discover content

Youtube to discontinue "stories" feature from 26th June.



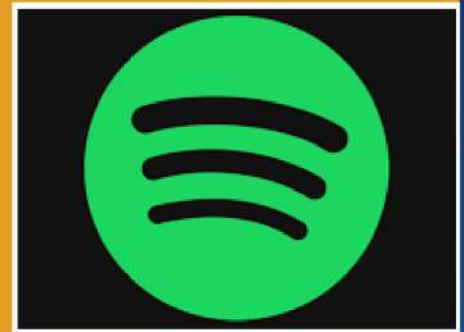


TECH NEWS



Google to add precise location to support its AI chatbot Bard, for relevant responses. Google Slides to implement AI-powered image generation features.

Spotify testing "Your Offline Mix" feature, for users to listen to while they are offline.



Twitter offers a 1 hour limit for editing tweets for blue-tick users.

Microsoft brings Bing ChatGPT for iOS devices



Meta CEO Mark Zuckerberg took to Instagram to introduce the firm's new VR headset 'Quest 3'.

Apple Reportedly Planning to Switch Technology Bionic Chip to Cut Costs Next Year





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BLOGGING CORNER

AIRAWAT: India's AI-Based Supercomputer Takes Global Stage



AIRAWAT: India's AI-Based Supercomputer Takes Global Stage

India's commitment to technological advancements has reached new heights with the achievement of the AI supercomputer, AIRAWAT. At the International Supercomputing Conference (ISC 2023) in Germany, AIRAWAT, located at C-DAC in Pune, proudly secured the impressive global ranking of 75th on the esteemed Top 500 Global Supercomputing List. This remarkable feat establishes India as a leading nation in the field of AI supercomputing and showcases the country's significant strides in AI capabilities.

Technical Specifications of AIRAWAT

AIRAWAT's technical specifications are truly awe-inspiring, showcasing the power and capabilities of this AI-based supercomputer:

- AIRAWAT's manufacturer is Netweb Technologies. Its operating system is Ubuntu 20.04.2 LTS
- Integration with PARAM Siddhi (India's supercomputer developed by CDAC): The Proof of Concept (PoC) of AIRAWAT involves the integration of 200 AI Petaflops with PARAM Siddhi, resulting in a combined peak compute capacity of 410 AI Petaflops in mixed precision. The sustained compute capacity of AIRAWAT is an impressive 8.5 Petaflops (Rmax) in Double Precision, and the peak compute capacity (Double Precision, Rpeak) stands at 13 Petaflops.





BLOGGING CORNER

Contributions of MeitY

AIRAWAT is part of the National Program on AI, developed by the Ministry of Electronics and Information Technology (MeitY), Government of India. MeitY's vision for AIRAWAT extends beyond its technical specifications and global rankings. The contributions and vision of MeitY towards AIRAWAT include:

1. **Advancing AI Capabilities:** MeitY aims to propel India's AI capabilities to new heights by developing and deploying cutting-edge supercomputing technologies. AIRAWAT serves as a testament to MeitY's commitment to fostering innovation and pushing the boundaries of AI in India.
2. **Strengthening Research and Development:** MeitY recognizes the importance of research and development in AI. By investing in supercomputing infrastructure like AIRAWAT, MeitY aims to provide researchers with the necessary resources and computing power to tackle complex problems in various domains, from climate modeling to drug discovery.
3. **Establishing India's Global Presence:** AIRAWAT's global ranking on the Top 500 Global Supercomputing List highlights India's emergence as a key player in the field of AI supercomputing. MeitY envisions AIRAWAT as a stepping stone towards establishing India's global presence in cutting-edge technologies and fostering collaborations with international research organizations.

Research Problems Solvable by AIRAWAT

AIRAWAT's immense computing power and AI capabilities enable it to address a wide range of research problems, including but not limited to:

1. **Drug Discovery:** AIRAWAT's computational prowess can significantly accelerate the drug discovery process by simulating the interactions between potential drug compounds and biological targets. This can lead to the identification of promising drug candidates and expedite the development of new therapies.
2. **Climate Modeling:** With its exceptional computing power, AIRAWAT can simulate complex climate models, aiding in predicting weather patterns, studying climate change impacts, and informing policy decisions related to environmental sustainability.
3. **Genomics and Precision Medicine:** AIRAWAT's ability to analyze large genomic datasets enables researchers to identify disease markers, understand genetic predispositions, and develop personalized treatment strategies. This can revolutionize healthcare and improve patient outcomes.
4. **Artificial Intelligence and Machine Learning:** AIRAWAT's integration of AI and machine learning capabilities enables researchers to develop and train sophisticated models. This has applications in various domains, including natural language processing, image recognition, autonomous vehicles, medical imaging, education and healthcare, and robotics.

Prof. Manesh T
HOD-CSE



BLOGGING CORNER

Exploring the Power of Google Bard: Revolutionizing Conversational AI

In the world of artificial intelligence, Google Bard has emerged as a game-changer, reshaping the landscape of conversational AI. With its advanced neural network architecture and remarkable capabilities, Bard is revolutionizing the way we interact with technology. From engaging in dynamic conversations to providing personalized assistance, Google Bard is at the forefront of transforming the future of communication.

Google Bard originated as an extension of groundbreaking research in natural language processing and machine learning. Developed by a team of experts at Google, Bard has been trained on vast amounts of data to understand and respond to a wide range of queries. The underlying technology behind Bard leverages sophisticated algorithms and neural networks, enabling it to process and generate contextually relevant responses in real time. Whether through text-based interfaces or voice assistants, Bard seamlessly integrates into various platforms, bringing conversational AI to the forefront of user experiences.

One of the standout features of Google Bard lies in its ability to maintain context throughout a conversation. Unlike traditional chatbots, Bard possesses contextual understanding, allowing it to recall previous points and engage in meaningful exchanges. This ensures a smoother and more natural flow of conversation, making interactions with Bard feel incredibly human-like.

Furthermore, Bard can adapt to various domains and industries, making it a versatile tool with numerous applications. In customer service, Bard can handle inquiries, resolve issues, and provide personalized recommendations, delivering a seamless and satisfactory customer experience. Its adaptability also extends to personal assistance, where Bard can assist users in managing schedules, answering questions, and providing relevant information. By leveraging its conversational expertise, Bard enhances productivity and streamlines processes.

Moreover, Bard's content creation and generation potential cannot be overlooked. It can assist writers and content creators by offering suggestions, generating coherent text, and providing creative inspiration. This has the potential to revolutionize the creative process, unleashing new realms of imagination and innovation.

Google Bard's emergence has transformed the field of conversational AI, unlocking a new era of dynamic and engaging interactions. With its advanced neural network architecture and contextual understanding, Bard has redefined the boundaries of what AI can achieve. From customer service to personal assistance and content creation, Bard's applications are vast and far-reaching.

As we move forward, it is essential to navigate the ethical considerations that arise with such powerful AI technologies. Transparency, privacy protection, and the responsible use of AI-generated content are paramount. By ensuring responsible development and deployment, we can fully harness the potential of Google Bard and other conversational AI technologies to enhance our lives and push the boundaries of human-machine interactions.



In conclusion, Google Bard represents a significant milestone in the evolution of conversational AI. Its ability to engage in natural and dynamic conversations, maintain context, and adapt to various domains opens up exciting possibilities for businesses, individuals, and industries alike. As technology advances, Google Bard is poised to shape the future of communication, paving the way for more intuitive, personalized, and immersive interactions with AI-powered systems.



**Biyas Mohammed M-
S6 CSE(AI)**



CONTACT US:

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