JANUARY 2023

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

MOU WITH MG UNIVERSITY

16.01.2023: Adi Shankara Institute of Engineering and Technology, Kalady and Mahatma Gandhi University, Kottayam has signed an MoU for the exchange of information in the field of innovation, entrepreneurship and startups.

Prof R Rajaram (Dean Project and Consultancy, ASIET),Prof Ajay Basil Varghese (Nodal Officer, Adi Shankara TBI) and Dr. P.S. Sreekala, Director, Knowledge Economy Mission have handed over the MoU on 16th Jan 2023 at Mammen Mappila Hall, Kottayam .

Scope of MOU include:

- Collaborating on joint startup initiatives
- Hosting joint events such as conferences, workshops, and innovation development and training programs
- Facilitating exchanges of faculty members and students for entrepreneurship training activities
- Inviting faculty members and researchers to participate in seminars, conferences, courses, and meetings focused on innovation and entrepreneurship development
- Promoting the growth of innovation ecosystems
- Co-mentoring and co-incubating startups, with specific details to be determined on a case-by-case basis
- Publishing joint scientific works in fields of shared interest
- Developing entrepreneurship development programs.

EDITORIAL BOARD

CONTACT US:
newslettercse@adishankara.ac.in

SPECIAL APPRECIATION

Prof Ajay Basil Varghese received a special appreciation from MG University, Kottayam for his notable contribution to the startup Ecosystem

FACULTY TALKS

18.01.2023 : During a three-day faculty development program focused on the theme of 'Artificial Intelligence and Machine Learning in Manufacturing,' Prof. P V Rajaraman, the Head of the Artificial Intelligence Department, gave a lecture on the topic of 'Interpreting DL Models with Explainable AI.' as part of a FDP organized by Department of Mechanical Engineering , ASIET.

Prof. P V Rajaraman's lecture began with an overview of the various applications of deep learning, including computer vision, speech and audio recognition, and natural language processing. He also discussed the limitations of data enhancement in medical imaging. The lecture then delved into the different steps involved in deep learning, from data fetching to processing, model training, testing, and improvement.

During the lecture, Prof. Rajaraman also covered the features of Convolutional Neural Networks (CNNs), including striding, pooling, and padding, and compared them to Recurrent Neural Networks (RNNs). In addition, the lecture introduced the concept of explainable machine learning algorithms.

04.01.2023: Mahaguru Institute of Technology invited Prof. Ajay Basil Varghese to serve as a resource person for a workshop on problem-solving and ideation. The event was organized by the IEDC and IIC of Mahagurutech.

23.01.2023: Prof. Ajay Basil Varghese was invited to be a resource person for a KTU-sponsored Faculty Development Program (FDP) on the topic of "Faculty Entrepreneurship in the Scenario of Make in India." The FDP took place at St. Thomas College of Engineering and Technology in Chengannur

05.01.2023: As part of a Springer International Conference on Computer, Communication, and Signal Processing (ICCCSP-2023) held at SSN Engineering College in Chennai, Prof. Manesh delivered a keynote address on the topic of "Modern Cybersecurity Attacks in Wi-Fi Networks." In his speech, he covered latest cybersecurity threats to Wi-Fi and IoT networks and provided insights into how to counteract them.

06.01.2023: Prof. B. S. Satyanarayana (PhD), an eminent educationalist and a freelance consultant in technology development and innovation, was our esteemed guest from Sringeri mutt. He delivered an informative talk on the contemporary skills of teaching and learning to an audience comprising of faculty members and students from various departments.

During his talk, he emphasized the crucial responsibility of teachers to adapt and keep themselves updated with current trends. He also motivated the students by sharing various learning techniques and how they can shape their future by acquiring modern industry skills.

MOU WITH CYBERDOME, KERALA POLICE

19.01.2023: ASIET has signed a Memorandum of Understanding (MoU) with P Prakash IPS, the Nodal Officer of the Kerala Police Cyberdrome, with Dr. Eldose K K and Prof. Manesh T representing the institution. The primary objective of this MoU is to provide cyber security awareness campaigns to students and the public. The partnership also aims to foster collaborative research projects that break new ground in the field of cyber security. This MoU will help to create a more secure and informed society by promoting awareness of the latest cyber threats and best practices for safeguarding against them. Through joint research initiatives, the partnership will also help to develop innovative solutions to emerging cyber security challenges. This collaboration between ASIET and the Kerala Police Cyberdrome is a significant step towards building a safer digital world for everyone.

INTERACTION WITH MR. MANOJ ABRAHAM IPS, ADGP VIGILANCE

19.01.2023: Dr. Eldose K K and Prof. Manesh T had the opportunity to interact with Mr. Manoj Abraham IPS, the ADGP of Vigilance. During the meeting, Mr. Abraham congratulated ASIET for its efforts in fostering cybersecurity awareness through seminars and other events. He also emphasized the importance of continuing to organize such events, both by students and in the community at large, in order to keep pace with the ever-evolving cyber threat landscape. Additionally, Mr. Abraham stressed the need to identify and address cybersecurity issues in the community, highlighting the crucial role that educational institutions like ASIET can play in this effort. This interaction served as a valuable reminder of the ongoing need for cybersecurity awareness and collaboration among stakeholders in the fight against cyber threats.

FISAT CUP CRICKET TOURNAMENT

The ASIET cricket team took part in the Professor's cricket match, which was organized by FISAT. They secured a victory in the first group match against the College of Engineering Thrikkaripur, Kasargord, and proceeded to win the quarter-final match against Jyothi Engineering College in Thrissur, thereby earning a spot in the semifinals. The team was comprised of faculty members from various departments. Congratulations for your effort!!!!

STUDENT CORNER

- Alen Biju, Devarsh R, Dyna Joshy, Insha Nourin Sulbi from S3 CS attended the Annual meet-up of the Kochi hub of IEEE Kerala Section was held on the 10th and 11th of December 2022 at St. Joseph's College of Engineering and Technology,Palai. The two-day event comprised workshops, technical talks and a cultural night.

- Amrita Ajith, Amritha R from S5 CS A attended a 2-month online internship program on data science on 10-11-22 to 10-01-23.

FACULTY CORNER

- Prof. Manesh T attended a one-day hands-on workshop on IoT for Smart System as part of Springer International Conference on Computer, Communication and Signal Processing on January 4, 2023 held at SSN engineering college, Chennai.
- Prof. Divya K.S presented a paper titled "Deep learning architectures for Brain Tumor detection: A Survey" at Sixth International Conference on "Advanced Computing and Communication Technologies for High Performance Applications (ACCTHPA'23) held at FISAT Engineering college , January 20,2023
- Dr. Sanaj MS, Prof. Nikhil Narayanan attended five-day APJ KTU Sponsored FDP on project based learning at Sahradya College of Engineering &Technology.
- Prof. Manesh T presented a paper titled " Multi-Channel Man-in-the-Middle attacks against protected Wi-Fi networks and their attack signatures" in a Springer International Conference on Computer, Communication, and Signal Processing (ICCCSP- 2023) on 05-01-2023, held at SSN Engineering College in Chennai,
- Prof. Divya K.S attended a five-day KTU sponsored Offline FDP on "MEDICAL IMAGE ANALYSIS USING DEEP LEARNING TECHNIQUES" at Sahradya College of Engineering &Technology from 23/01/23 to 28/01/23.
- Prof. Sumesh M.S attended a one-week SERB Karyashala workshop on "Understanding machines :Explainable AI" at CUSAT from 16/01/23 to 22/1/23.
- Prof. Teena George attended a three-day online FDP on "Data Science using Python" conducted by Department of Computer Science & Engineering, Mangalam College of Engineering Kottayam, Kerala from 24/01/2023 to 26/01/2023.

UPCOMING EVENTS!

Technical Workshop on Python Web Development by CS Association- February 2023

Brahma-23- 30th March -1st April 2023

Adi Shankara Hackathon 2K23- 29th -30th March 2023

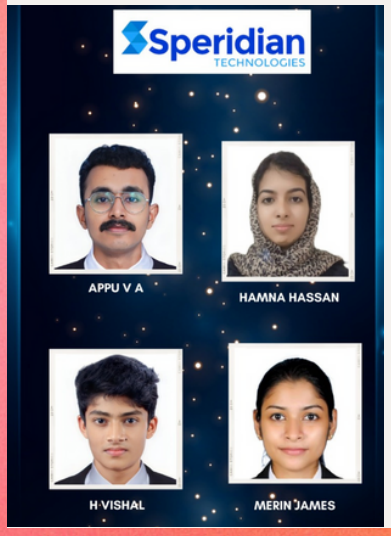
PLACEMENTS

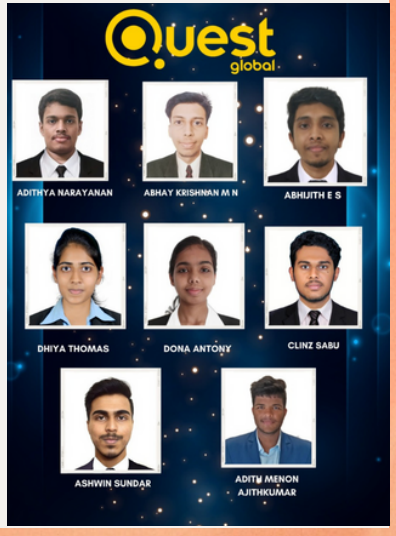
2019-2023 BATCH

Adi Shankara
INSTITUTE OF ENGINEERING AND TECHNOLOGY
ASIET

NBA
NATIONAL BOARD OF ACCREDITATION

Congratulations





Congratulations

Selected for Internship at Suyati Technologies (2020-2024 Batch)

Cyril C Kurian
(S6 CS A)

Roshan Davis
(S6 CS B)

Antony Thomas
(S6 CS A)

Ashwin Raguraj
(S6 CS A)

Achu M V
(S6 CS AI)

Yadhukrishnan M S
(S6 CS AI)

U. Harikrishnan
(S6 CS B)

K K Haridev
(S6 CS B)

Abijith S
(S6 CS A)

Cleeto Ittiachan
(S6 CS AI)

Ashik K J
(S6 CS AI)

Shareeh Bin Shakkir
(S6 CS AI)

WELCOME ABOARD

Renjith R
Network Administrator

Mr. Renjith. R is a Senior Network / System Administrator with 16+ years of professional experience, specializing in network infrastructure, technical project management, and network security. He received his Master degree in Information Technology from Annamalai University, Chennai. He holds a Bachelor degree in Electronics with Computer Hardware from Mahatma Gandhi University, Kottayam. He worked as an I T Manager in the department of computer science and engineering at Jaibharath College of Management and Engineering Technology, Perumbavoor, from 2009 to 2022. Prior to that, he worked as a System Administrator in department of computer science at Jaibharath Arts and Science College from 2006 to 2009. He has professional certifications in CCNA and MCSA.

Congratulations and warm welcome!

Tech News

How large language models like GPT-3 can learn a new task from just a few examples?

Large language models like OpenAI's GPT-3 are massive neural networks that can generate human-like text, from poetry to programming code. Trained using troves of internet data, these machine-learning models take a small bit of input text and then predict the text that is likely to come next. But that's not all these models can do. Researchers are exploring a curious phenomenon known as in-context learning, in which a large language model learns to accomplish a task after seeing only a few examples—despite the fact that it wasn't trained for that task. For instance, someone could feed the model several example sentences and their sentiments (positive or negative), then prompt it with a new sentence, and the model can give the correct sentiment.

Typically, a machine-learning model like GPT-3 would need to be retrained with new data for this new task. During this training process, the model updates its parameters as it processes new information to learn the task. But with in-context learning, the model's parameters aren't updated, so it seems like the model learns a new task without learning anything at all.

Scientists from MIT, Google Research, and Stanford University are striving to unravel this mystery. They studied models that are very similar to large language models to see how they can learn without updating parameters.

The researchers' theoretical results show that these massive neural network models are capable of containing smaller, simpler linear models buried inside them. The large model could then implement a simple learning algorithm to train this smaller, linear model to complete a new task, using only information already contained within the larger model. Its parameters remain fixed.

For more info :https://techxplore.com/news/2023-02-large-language-gpt-task-examples.html