

# IcfaiTech Newsletter

VOLUME 11

JUNE 2022



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# FROM THE DIRECTOR'S DESK

In the contemporary world where the experts need to innovate and redesign themselves perpetually, IcfaiTech, Hyderabad provides a platform for its faculty members and students to adapt to the dynamic milieu of science and information technology. We come together to conduct workshops and faculty development programs as well as ensure a vibrant campus life for our students through several activities and webinars, thereby enhancing the erudite experience.

Through the June edition of the newsletter, we aim to disseminate such information to our avid readers which provides them a glimpse of the invigorating campus activities as well as showcases the phenomenal achievements of our beloved students and prodigious faculty members. I welcome you to be a part of our journey through our newsletters.



*~ Dr. K.L. Narayana  
Director, IcfaiTech, Hyderabad*

# CAMPUS HAPPENINGS



As Internship Program is an integral part of the curriculum offered by IcfaiTech, Hyderabad, the 2nd phase of IP-I was initiated where 14 students were offered Internship by Skillbanc. Further, 92% of the registered students are already placed till June 2022 with highest Salary package of 10.4 LPA.



Summer camp was organized by the Department of Mathematics for the period of 5 days commencing from 30th May 2022. The closing ceremony of the elaborated Summer Camp witnessed Dr. K.L. Narayana address the students on importance of education and its impact on the society. Dr. Anjanna Matta, Coordinator, Department of Mathematics and Dr. T. Rakesh Reddy, summer camp coordinator actively participated in the camp along with other faculty members.



The final phase of the Faculty Development Programme on **"AI-Driven Secure Smart City Frameworks"** jointly organized by **Smart City Living Lab, IIIT, Hyderabad and Department of Computer Science and Engineering, IcfaiTech, IFHE, Hyderabad** involved a visit to the IIIT, Hyderabad campus where Prof. Ramesh Loganathan, IIIT, Hyderabad introduced their institute as well as orated on Smart City Living Lab. The invigorating Smart Lab tour included a visit to CVEST, SPCRSC & CSG as well as CIE & Product Lab.

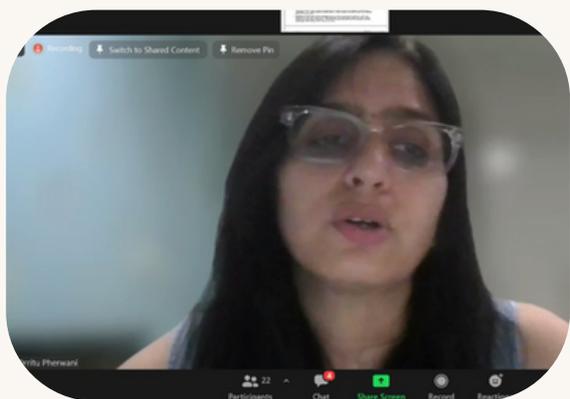


IcfaiTech, Hyderabad conducted complimentary mock EAMCET-2022 on 8th and 10th June 2022. The test provided a better perspective to students to prepare for the actual EAMCET exam, and enabled them to assess their level of preparation. It also assisted the aspirants to explore the questions so that it improves their further preparation. Through the exam, the student were aware of their strengths as well as gained insights to enhance their expertise.

# CAMPUS HAPPENINGS



Department of Computer Science and Engineering, **IcfaiTech, Hyderabad** organized departmental seminar entitled "**Stablecoin - the stable cryptocurrency**". On **June 21, 2022**, Mr. K.Vara Prasada Rao, Assistant Professor, Department of Computer Science and Engineering, IcfaiTech, Hyderabad narrated the emerging topic of stablecoins, which is an umbrella term used to refer to a stable cryptocurrency. He also presented a taxonomy of stablecoins based on the mechanism employed to stabilize their value. A more thorough exploration of the market for stablecoins was provided emphasizing the controversies surrounding the most popular of stablecoins - Tethe.



Asana Club, IcfaiTech, Hyderabad conducted a webinar to propagate Mental Health awareness and the importance of Yoga on 21st June, 2022 - International Yoga Day. Dr. Ritu Pherwani was invited as the guest speaker of the webinar which was hosted by club's Yoga Co-ordinator, Srihitha Jonnalagadda. Further, Dr. Anjanna Matta, Assistant Professor, Department of Mathematics graced the webinar with his presence. During the session, Dr. Ritu orated on the importance and benefits of Yoga and meditation, and its impact on one's mental health. She informed the 24 participants about the importance of good food habits, and a healthy diet. Concluding the invigorating session, Dr. Anjanna Matta expressed his gratitude to the guest lecturer and also gave an excellent speech narrating the importance of Yoga in daily life.

**IFHE** The ICFAI Foundation for Higher Education  
(Declared as Deemed-to-be-University under section 3 of the UGC Act, 1956)

Ref No: IFHE/FST/Ph.D/Science/2021-22/02. Date: 22-06-2022

**NOTIFICATION**  
Sub: Award of Ph.D Degree in Chemistry to Mr. Rudrarapu Aravind (Enr.No:16STRCIH010003)

Dr. Gouri S Brahma, Associate Professor, Department of Chemistry guided a scholar Mr. Rudrarapu Aravind, who successfully defended his thesis entitled "**Synthesis of Transition Metal-based complexes and Nanocomposites and Investigation of their Typical Applications**" for the award of Ph.D. degree by the IFHE on **22nd of June 2022**.

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Further, One of the top 5 Analytical Instrumentation company of the World "Waters corp" (An US based company) have hired Mr. Rudrarapu Aravind for the post of Application Analyst with a CTC of 10.25 LPA plus incentives. He is currently serving as a Senior Project Associate under the project entitled "Synergistic Training Program Utilizing the Scientific and Technological Infrastructure" at NIT, Warangal, post submission of his Ph.D. thesis.

**Online Faculty Development Program**  
**MATHEMATICAL MODELS**  
for Machine Learning and it's Applications  
July 11 - 20, 2022

Jointly Organised by  
**ICFAI** Foundation for Higher Education  
(Deemed to be University under Section 3 of the UGC Act, 1956)

in association with  
Department of Electronics and Information Technology

Department of Mathematics, IcfaiTech, Hyderabad in association with Electronics & ICT Academy, NIT Warangal have organized Ten-Day online Faculty Development Programme (FDP) on "**Mathematical Models for Machine Learning and It's Applications**" held from 11th July 2022 to 20th July 2022. The Faculty Development Program disseminated information pertaining to AI and Machine learning with python. It empowered the participants to understand how AI can be used to innovate and improve the business process. Machine Learning is a fast-growing field of Artificial Intelligence concerned with the study and design of computer algorithms for learning good representations of data, at multiple levels of abstraction. Since data is overwhelming, organizations are struggling to extract the powerful insights they need to make smarter business decisions. The participants were trained through hands-on approach to provide an in-depth insight into the domain of AI & ML and expose them to Feasibility & future scope.

# STUDENT ACHIEVEMENT



Kondamuri Sri Jashwanth Baba, fourth year, Department of Computer Science and Engineering, IcfaiTech, Hyderabad is pursuing internship at Goldstone Technologies Limited. He completed three certifications successfully during his internship: Tableau desktop specialist, Alteryx Designer Core, and Neo4J certified professional. Tableau is a data visualization and analysis tool that allows us to visually depict data for interpretation. Alteryx Designer is a data science-focused ETL solution, ETL stands for extract, transform, and load. Neo4j is a graph database; graph databases outperform relational databases in some use cases because they take advantage of graph traits including shortest path, breadth-first search, depth-first search, and DAGs. After demonstrating his data analysis abilities, he has been recently assigned to a client project where he will be analyzing supply chain management and revenue generation streams.

Mr. Avinash Malladi, Assistant Professor, Department of Mechatronics and Mr. Kaushik Gogi, student, IcfaiTech, Hyderabad conjointly presented a paper in the "International Conference on Advanced Communication Control & Computing Technology" organized by SIMATS School of Engineering, Saveetha Institute of Medical & Technical Sciences, Chennai during 29th-30th June titled "Impact of Material on the Design of Disk brake using AM techniques".

The same conference witnessed another presentation of research paper by Mr. Avinash titled "Design and Analysis of Biomedical Scaffolds /inspired from additive manufacturing : a review"

Mr. M. Ramagopala Charyulu, Research Scholar and Laboratory Assistant, Department of Mechanical Engineering published a paper "Alternative fuel in I.C. Engine - Cotton Seed Oil" at the International Conference on Intelligent Control and Mechanical Engineering (ICICME) - 2022, Nanjing, China on June 10 2022. In present days of escalating energy cost, different types of oils arranged technically as well as economically substitute Diesel for use in Automobile as an alternative fuel. The limited fossil fuel is proposed to be substituted by "COTTON SEED OIL" in this paper. The cottonseed oil is an efficient, 100% clean general power as compared to petroleum fuels. Further, in the research work, cottonseed oil ethyl was prepared which showed density, calorific value, flash and fire point, pour point.

The objective of the research is to determine the relationship between "Engine performance and emission" of COTTON SEED OIL BIO DIESEL used in 5.2 KW Diesel Engine. A bio diesel of cotton seed oil is prepared and blended with diesel for four different composition varying from 25%, 35%, 45%, and 55% in steps of 10%. The experiments are conducted in a single cylinder diesel engine at a constant speed of 1500rpm. The experiments exhibit High brake thermal efficiency and lower specific fuel consumption for 25% Alternative Bio Diesel cottonseed oil blend resulting in reduced carbon monoxide and hydrocarbon emission and increased nitric oxide emission at high loads as compared to petroleum diesel. Finally, the experiments reveal that the bio diesels can be used safely without any modification in the single cylinder compression ignition engine.



Mechanical Load - 4stroke single cylinder Diesel Engine Test - Rig.



Pensky Martin Flash and Fire point test - Rig.



Engler Viscometer test - Rig.

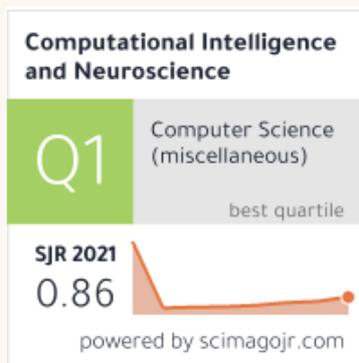
# FACULTY ACHIEVEMENT



Dr. Sirisha Potluri, Assistant Professor, Department of Computer Science and Engineering, IcfaiTech, Hyderabad presented a research paper titled "A systematic review of AI privileges to combat wider threat of flavivirus" in the International Conference on Ambient Intelligence in Health Care (ICAIHC 2022). In order to prevent the extraordinary spread of sickness caused by Flavivirus, the healthcare business as well as public health are working tirelessly. Individual lives have been affected, but mosquito-infested public locations have made a considerable influence on the general public's health. Site adaptability, climate change, and inadequate healthcare services and surveillance all contribute to the spread of the virus. The potential dangers of this virus, on the other hand, have been uncovered through extensive and ongoing research in the healthcare business. Modern healthcare facilities may benefit from the reasoning capabilities and ever-evolving analysis techniques provided by artificial intelligence. More conclusive findings have been demonstrated in the realm of AI applications in healthcare domains such as cancer, neurology, and cardiology. A number of research works have justified the use of AI oriented algorithms for intelligently handling unstructured and huge healthcare data. When it comes to using artificial intelligence (AI) to identify, forecast, diagnose, and treat disease using data from public health and biological databases, the current effort aims to undertake an extensive examination. There may be issues in integrating assistive technology into the current healthcare system, as well. Because of this review, we hope that by merging AI research with clinical and public health specialists, critical knowledge may be extracted from data in order to unchain the relevant information of Flavivirus disease from its chains.



Further, Dr. Sirisha have completed NPTEL MOOC online certification to enhance her horizon of experience as well as published a research article in Web of Science Core Collection entitled "An artificial intelligence based reactive health care system for emotion detections, Computational Intelligence and Neuroscience" in the Special issue on: Exploration of Human Cognition using Artificial Intelligence in Healthcare-2022, Volume 2022. In the past few years, remote monitoring technologies have grown increasingly important in the delivery of healthcare. According to healthcare professionals, a variety of factors influence the public perception of connected healthcare systems in a variety of ways. First and foremost, wearable technology in healthcare must establish better bonds with the individuals who will be using them. The emotional reactions of patients to obtaining remote healthcare services may be of interest to healthcare practitioners if they are given the opportunity to investigate them. In this study, we develop an artificial intelligence-based classification system that aims to detect the emotions from the input data using metaheuristic feature selection and machine learning classification. The proposed model is made to undergo series of steps involving preprocessing, feature selection, and classification. The simulation is conducted to test the efficacy of the model on various features present in a dataset. The results of simulation show that the proposed model is effective enough to classify the emotions from the input dataset than other existing methods.



Dr. Movva Pavani, Assistant Professor, Department of Electronics & Communication Engineering published SCI Book/WoS Chapter in Pattern Recognition - New Insights edited by Gonzalez. Published online, the chapter titled "Multi-Features Assisted Age Invariant Face Recognition and Retrieval Using CNN with Scale Invariant Heat Kernel Signature" offers five sequential processes for face recognition including Image Quality Evaluation (IQE), Preprocessing, Pose Normalization, Feature Extraction and Fusion, and Feature Recognition and Retrieval mitigating the bottleneck due to face appearance variations caused by aging process. Primarily, the method presented in the chapter performs IQE process in order to evaluate the quality of image and thus increases the performance of the Age Invariant Face Recognition (AIFR). In preprocessing, the authors carried out two processes that are Illumination Normalization and Noise Removal resulting in high accuracy in face recognition. Feature extraction adopts two descriptors such as Convolutional Neural Network (CNN) and Scale Invariant Heat Kernel Signature (SIHKS). CNN extracts texture feature, and SIHKS extracts shape and demographic features. These features play vital role in improving accuracy of AIFR and retrieval. Feature fusion is established using Canonical Correlation Analysis (CCA) algorithm. The chapter utilizes Support Vector Machine (SVM) to recognize and retrieve images. Authors implement these processes in FG-NET database using MATLAB2017b tool. Finally, they validate performance of their work using seven performance metrics that are Accuracy, Recall, Rank-1 Score, Precision, F-Score, Recognition rate and computation time.



Dr. Rashmi Sahay, Assistant Professor, Department of Computer Science and Engineering is honoured with the position of the workshop chair at 6GIoTT 2022 - International Conference on 6G Communication and Internet of Things Technology. She will be chairing the Workshop 10: Application of AI, Blockchain and Digital Twins for Securing Smart City Domains of Track 2: Internet of Things. The publication support of the prestigious conference is IEEE Computer Society. The conference will witness an amalgamation of experts and scholars from domestic and foreign universities and research institutions, business people and other related personnel from all over the world in the fields of communication and IoT to understand academic development trends, broaden research ideas, strengthen academic research and discussion, and promote cooperation in the industrialization of academic achievements. The 6G network will be a fully connected world with terrestrial wireless and satellite communications integrated. By integrating satellite communications into 6G mobile communications, seamless global coverage will be achieved. In addition, 6G communications can greatly facilitate the development of the Internet of Things (IoT), which, as a highly integrated and comprehensive application of a new generation of information technology, is another enabler of the development of the information industry after computers, the Internet, and mobile communication networks. In this context, the conference will be held in Fuzhou, China, from October 14-16, 2022.

# ADMISSION CAMPAIGNS



Dr. Soumit Samadder Chaudhury, Assistant Professor, Department of Electronics and Communication Engineering and Dr. Dr.K Vivekananda, Assistant Professor, Department of Mechatronics attended Shiksha Mahotsav 2022 at Hotel Clark Grand, Gorakhpur from 11th June - 12th June 2022.

Footfall: 42 people on 11th June 2022  
59 people on 12th June 2022



Dr. Dr. Soumit Samadder Chaudhury, Assistant Professor, Department of Electronics and Communication Engineering attended PUBLIC TV MEGA EDUCATION EXPO : VIDHYAPEETA 2022 - 5th Edition at Gayatri Vihar, Bangalore from 24th June - 26th June 2022.

Footfall: 70 people on 24th June 2022  
88 people on 25th June 2022  
100+ people on 26th June 2022



Dr. Dr.K Vivekananda, Assistant Professor, Department of Mechatronics attended Shiksha Mahotsav Education Fair-2022 at Hotel Radisson, Lucknow from 25th June - 26th June 2022.

Footfall: 25 people on 25th June 2022  
30 people on 26th June 2022



Dr. Dr.K Vivekananda, Assistant Professor, Department of Mechatronics attended Eduverse 2022 Education Fair-2022 at Jayamahal Palace Hotel Ground, Bangalore from 2nd July - 3rd July 2022.



Dr. Dr.K Vivekananda, Assistant Professor, Department of Mechatronics attended Career Planner Education Fair-2022 at Netaji Indoor Stadium, Kolkata from 4th June - 6th June 2022.

Footfall: 50 people on 4th June 2022  
60 people on 5th June 2022  
40 people on 6th June 2022



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