



DAYANANDA SAGAR
UNIVERSITY



SCHOOL OF
ENGINEERING

SOE - "The Weekly Buzz"

The Official Weekly Newsletter of **School of Engineering**



Week#34 (Aug 19 to 24, 2024)

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SCHOOL OF ENGINEERING

VISION

- Transform lives through excellence in engineering education, research and innovation with an emphasis on sustainability, inclusive technologies and global needs.

MISSION

- Design and deliver contemporary engineering curricula to address regional and global needs while emphasizing ethics, values, integrity and regional relevance.
- Carryout high impact academic research, industry projects and innovation activities with active student engagement to advance science and engineering knowledge and state-of-the art industry practices.
- Develop regional and national leaders to advance the society and economy.

Faculty Contributions

Department of CSE

- Dr. Gousia Thahniyath, Assistant Professor, Department of CSE has published a Paper in Q3 Scopus indexed journal with the title “Cloud based prediction of epileptic seizures using real-time electroencephalograms analysis” in the journal of International Journal of Electrical and Computer Engineering with Vol 14, No 5 pp. 6047-6056 published by the Institute of Advanced Engineering and Science (IAES) in collaboration with Intelektual Pustaka Media Utama (IPMU) during August 2024 with DOI <http://doi.org/10.11591/ijece.v14i5.pp6047-6056>
- Dr. Arunkumar Gopu, Associate Professor, Department of CSE has published a Paper in Q2 indexed by Web of Science journal with the title “Effect of algorithm techniques on optimization of laminate stacking sequence for buckling load condition”, in the journal International Journal on Interactive Design and Manufacturing (IJIDeM) during 5th August 2024.

International Journal of Electrical and Computer Engineering (IJECE)
Vol. 14, No. 5, October 2024, pp. 6047-6056
ISSN: 2088-8708, DOI: 10.11591/ijece.v14i5.pp6047-6056

Cloud based prediction of epileptic seizures using real-time electroencephalograms analysis

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³Department of Computer Science and Engineering, Government Engineering College, Bangalore, India
⁴Department of Electronics and Communication Engineering, Pannalar Engineering College, Chennai, India
⁵Department of Electronics and Communication Engineering, Vellore Institute of Technology, Vellore, India
⁶Department of Electronics and Communication Engineering, Vellore Institute of Technology, Vellore, India
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Article Info

Article Info **ABSTRACT**
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Accepted Jul 9, 2024

Keywords:
Cloud computing
Electroencephalogram analysis
Epileptic seizure prediction
Intelligent healthcare systems
Signal processing

This study aims to improve the accuracy of epileptic seizure prediction using cloud-based real-time electroencephalogram analysis. The goal is to build a strong framework that can quickly process electroencephalogram (EEG) data, detect seizure patterns, and use advanced machine learning algorithms to predict seizures with high accuracy and low latency by taking advantage of cloud platform's computing power and scalability. The main objective is to provide patients and their caregivers with timely notifications so that they can control epilepsy episodes proactively. The goal of this paper is to improve the lives of people with epilepsy by reducing the impact of seizures and improving treatment results via real-time analysis of EEG data. Cloud computing also allows the engaged seizure prediction systems to access scalable and reliable storage using large public cloud-based health data. This machine learning-based real-time EEG analysis of patients with epileptic seizures will understand EEG analysis with the following steps in Raspberry (RPi), Python (Py), TensorFlow (TF), Java, cloud (AWS, GCP, Azure), and cloud (TF, TP), python (Py, PA), weighted (W), and cloud (TF, TP, PA), python (Py, PA), weighted (W), and cloud (TF, TP, PA), weighted (W).

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1. INTRODUCTION
This research aims to provide a new method for forecasting epileptic seizures by analyzing electroencephalogram (EEG) data in real-time on the cloud. The unpredictability of epilepsy, a neurological illness caused by repeated convulsions, causes substantial hardship for those affected. Timely interventions and better patient outcomes may be achieved with early seizure prediction. An EEG prediction model that can identify potential (periodic) anomalies before a seizure occurs is our goal, and we want to achieve this by using recent developments in cloud computing and machine learning. Our mission is to develop a machine learning analysis tool that may help people with epilepsy, their loved ones, and medical professionals better prepare for and respond to seizure episodes.

Journal homepage: <http://ijece.iaescore.com>



Department of CSE (AIML)

- Dr. Vinutha N, Associate Professor, Dept. of CSE (AI&ML), have delivered a talk on "Demystifying Explainable AI in Deep Learning and Machine Learning" for MCA Department at the Community Institute of Management Studies at Jayanagar on 24 August 2024.



Department of ECE

- Dr. Arun Balodi chaired a session at the 2nd IEEE International Conference on Networks, Multimedia, and Information Technology (NMITCON) held at Nitte Meenakshi Institute of Technology, Bengaluru, India, on August 9-10, 2024, in association with the IEEE BANGALORE SECTION.



Dr. Arun Balodi, interacted with the energetic young volunteers and discussed the "Role of IEEE Signal Processing Society in Career Management" at "**Voices of IEEE**" event, a collaborative online event organized by IEEE St. Joseph's college of engineering student Branch Chapter, Chennai (SBC60101) in association with signal processing society (SPS) and IEEE JSSATE Noida student Branch (STB05571).



Department of CST

Dr. D. Sudha, Associate Professor, Dept. of CST, delivered a session on continuous improvement, which focused on the institution's ability to consistently improve the quality of its programs, processes, and outcomes over time, as well as how the institution should implement a well-established mechanism for regular assessment, evaluation, and enhancement of its educational practices in the 5 day Faculty Development Program titled "Strategic Accreditation: Planning, Implementation, and Continuous Improvement," which was held from August 19th to August 24th, 2024 at Lecture Theatre - O3, Block 'A', was designed to provide faculty members with the knowledge and skills needed for strategic accreditation processes.

Dr. M. Shahina Parveen, Professor Participated in International Conference held at DSU on "Quality Education" on the 20th & 21st of August 2024 at the Harohalli campus and honourable Education Minister of Srilanka Mr. A. Aravindh Kumar graced and discussed with all chairpersons of SOE on quality education and future collaborations.

Department of CSE (AIML)

The Five-Day Faculty Development Program (FDP) on "Generative AI and Prompt Engineering," organized by the Department of CSE (AI & ML), began with an inaugural session hosted by Dr. A. Vegi Fernando, Associate Professor. Dr. Rudra Murthy V, Research Scientist at IBM Research, India, and Dr. Karthikeyan Saminathan, Director of AI & Software Development at MINE, were the distinguished guests. The session was inaugurated by Dr. Udaya Kumar Reddy, Dean, SOE, with a welcome address by Dr. Jayavrinda Vrindavanam, Chairperson, and introductions by Dr. Monika Goyal and Dr. Shreyas Rajendra Hole. Dr. Naveen Babu, Associate Dean, SOE, also felicitated the gathering. Dr. Rudra Murthy's session focused on Information Retrieval, covering the basics of indexing, querying, and document retrieval, along with strategies for using academic databases like Google Scholar, PubMed, and IEEE Xplore. He emphasized the importance of precise searches and integrating retrieved information into course materials. Dr. Karthikeyan Saminathan's sessions introduced Generative AI, exploring Transformer Architecture, Prompt Engineering, and Hyperparameter tuning, followed by a hands-on session. The sessions highlighted the importance of Generative AI in various domains and provided strategies for designing effective prompts and responsible AI practices. The FDP concluded with a vote of thanks by Dr. Vinutha.



Department Aerospace Engineering

The National Space Day celebration at Dayananda Sagar University, Harohalli, Karnataka, was a remarkable event with 50 enthusiastic participants, all gathered to honor India's illustrious space journey under the theme "Touching Lives While Touching the Moon: India's Space Saga." The event featured distinguished guests, including Mr. N. Viswanatha, former Group Director of the Spacecraft Mechanisms Group at UR Rao Satellite Centre, ISRO, who delivered an insightful lecture. The celebration was marked by inspiring speeches, a tribute to the space industry's pioneers, and concluded with a heartfelt vote of thanks and the National Anthem, encapsulating the spirit of India's achievements in space.



The Department of Aerospace Engineering at Dayananda Sagar University organised an visit to CSIR-NAL an exhibition showcasing technologies / products of 8 CSIR labs as a part of AEISS One Week One Theme event on 22 August 2024. Our students had a chance to engage with professionals in the field, comprehend the real-world implications of their classroom learning, and learn about state-of-the-art research and development in the aerospace industry through this visit.



Department of CSE

The Department of CS & E is organizing a one-day workshop on "Beyond Basics: Advanced Word & Excel," on 20th August 2024.

The workshop is intended for Office Assistants who are already familiar with the basics of Word and Excel and are looking to deepen their knowledge and improve their productivity. This workshop is designed to enhance your skills in Microsoft Word and Excel, taking you beyond the basics and equipping you with advanced tools and techniques for professional and efficient document management and data analysis.

Date & Time: 20th August 2024 at 9:30AM, Venue: A Block - A406.



Department of Computer Science and Engineering
One Day Workshop
On
Beyond Basics: Advanced Word & Excel
Date & Time: 20th August 2024 at 9:30AM
Venue: A Block - A406

Program Schedule
Session 1: 9:30AM to 1:00PM: Advanced MS Excel, Data Management, Data Analysis & Visualization, Data Acquisition & Integration
Session 2: 2:00PM to 4:00PM: Advanced MS Word, Calculation in MS Word, Visualization, Mail Merge, Equation Editor

Objectives

- To familiarize Participants in using data analysis and visualization features.
- To familiarize Participants in using complex text processing features.

Resource Persons

- Dr. Babu Kumar Reddy K R
Dr. SR. Shruthi Reddy
Wang Weiqiang, MCA, PACE

Coverters

- Dr. Nitish Kumar Reddy K R
Dr. Anurag K S
Dr. Shikha S B
Chairman CSE Dept

Coordinator

Dr. Vignesh, IITM Assistant

Registration Link

<https://forms.gle/8888888888888888>



Computer Education Awareness

The Department of CSE planned & conducted an outreach activity on 22nd and 23rd August 2024 on the topic “Computer Education Awareness” for the school children of Government Primary School, Keerangere, Government Primary and Higher Primary School, Paduvanagere and Government High School, Paduvanagere, Kanakapura Taluk.

The program was conducted in the school premises. The children were educated on the importance of learning computers, the learning path, using computer applications, the job opportunities and the care to be taken while using social media and bank applications.

The writing notebooks and pens were distributed to the students to support their learning. The ruled paper bundles were given to the school to facilitate the children to write the examinations.

The programme was conducted under the guidance of faculty members of the CSE department.

Computer Science & Engineering department faculty organized and volunteered the event and made it successful through their valuable guidance Prof. Santhosh M, Prof. Deepak H G, Prof. Srikanta Rao, and Prof. Bharath M B, Prof. Pooja Shree H R, Prof. Vishwas D B The school children who participated were happy and delighted about the event. The faculties of the department donated generously for the noble cause. The dept. compliments each of the staff members who are involved in organizing this event.



CSE (Data Science)

Department of CSE (DataScience) is happy to announce the successful completion of the Value Added Course on "SPSS for Applied Data Science" held from 19th to 21st August, 2024, from 10:30 AM to 01:00 PM in online mode.

The primary objective of this course was to equip participants with essential skills in data analysis and exploration along with statistical packages of SPSS.

The course was attended by 7th sem and 5th sem Students. The sessions were conducted by our expertise faculty members, Prof. Shivamma D and Prof. Monish L.

The feedback from participants was overwhelmingly positive, with appreciating the clear and concise explanations of the SPSS tool.

The department extends its gratitude to the resource persons for their dedication and efforts in making this event a success.



DAVANANDA SAGAR UNIVERSITY
SCHOOL OF ENGINEERING

Value Added Course on SPSS for Applied Data Science

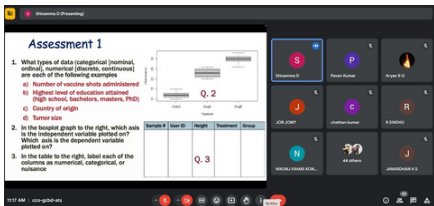
Date: 19.08.2024 to 21.08.2024
Time: 10:30am onwards

Conveners:
Dr. Amit Bhatt
Vice Chancellor, DSU
Dr. Udaya Kumar Reddy KR
Dean, SoE
Dr. Ramesh R Galigekere
Dean(Acad), SOE
Dr. Shaila S G
Chairperson, Dept. of CSE (DS)

Organizers:
Prof. Shivamma D
Assistant Professor, Dept. of CSE (DS)
Prof. Monish L
Assistant Professor, Dept. of CSE (DS)

For 5th and 7th Sem Students

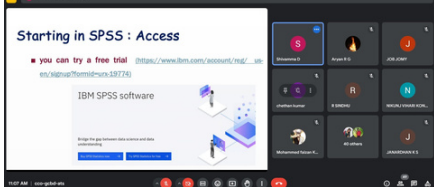
SPSS Data A



Assessment 1

- What types of data (categorical [nominal, ordinal], numerical [discrete, continuous]) are each of the following examples
 - Number of elective units administered
 - Highest level of education obtained (high school, bachelors, masters, PhD)
 - Country of origin
 - Tumor size
- In the barplot graph to the right, which axis is the independent variable plotted on? Which axis is the dependent variable plotted on?
- In the table to the right, label each of the columns as numerical, categorical, or ordinal

Sample #	Year ID	Height	Treatment	Group



Starting in SPSS : Access

you can try a free trial <https://www.ibm.com/accounts/osp/...>

IBM SPSS software

Bridge the gap between data science and data understanding

“Exploring C++, A Detailed Guide to Effective Programming”

The Department of CSE (Data Science), It Gives Us Immense Pleasure to Share the Successful Completion of Five Days Value Added Course On “Exploring C++, A Detailed Guide to Effective Programming” Organized by Department of CSE (Data Science), at SOE, DSU, Harohalli, Ramanagar Dt. From 19th to 23rd Aug 2024, In The Online Mode.

The Session Was Conducted for 3rd Sem Students. Around 70+ Students Attended the Session and Were Encouraged to Participate Actively Through the Quizzes and Assignments.

The Resource Persons Organizers: Dr Santhosh Kumar G, Dr. U Pavan Kumar, Prof. Manjula M, Prof Mahendra-Dept of CSE(Ds) For The Time and Knowledge Sharing.

DAVANAGERE UNIVERSITY
Devarakoppahalli, Harohalli, Kanakapura Road, Ramanagara Dt., Bengaluru - 562 112

SCHOOL OF ENGINEERING
DSU

Department of Computer Science and Engineering (Data Science)
In association with DataScience@DSU Club
is Organizing Value added Course

"Exploring C++"
A detailed Guide to Effective Programming

Conveners
Dr. Anil Bhatt
Vice Chancellor, DSU
Dr. Udaya Kumar Reddy K R
Dean, SOE
Dr. Shalika S G
Chairperson, Dept. of CSE (DS)

Faculty Co-ordinators:
Dr. Santhosh Kumar G, Associate Professor
Dr. U. Pavan Kumar, Assistant Professor
Prof. Manjula M, Assistant Professor
Prof. Mahendra K, Assistant Professor

19th Aug to 23rd Aug, 2024
@ 11:00 am - 01:00 pm

Registration Link:
<https://forms.gle/3QmraoMfH9d9>

Kanyashree Patan (Presenting)

Example

Kanyashree Patan
S V
28 others
D

GPS Map Camera

Kanakapura, Karnataka, India
MC6X+6RP, Kanakapura Rd, Kanakapura, Karnataka 562112, India
Lat 12.661401°
Long 77.450568°
22/08/24 09:35 AM GMT +05:30

Exceptions(Cont..)

Example

```
try {  
    // Block of code to try  
    throw exception; // Throw an exception when a problem arise  
} catch () {  
    // Block-
```

GPS Map Camera

Kanakapura, Karnataka, India
MC6X+6RP, Kanakapura Rd, Kanakapura, Karnataka 562112, India
Lat 12.661389°
Long 77.450594°
23/08/24 12:47 PM GMT +05:30

DIFFERENT TYPES OF DATA

Kanakapura, Karnataka, India
MC6X+6RP, Kanakapura Rd, Kanakapura, Karnataka 562112, India
Lat 12.661395° Long 77.450567°
20/08/24 02:33 PM

“Machine Learning Mastery”

The Department of CSE (Data Science) It gives us immense pleasure to share the successful completion of Five days Value Added course on “Machine Learning Mastery: Boost Your Skills from Basics to Brilliance” organized by Department of CSE (Data Science) at School of Engineering, Dayananda Sagar University , Harohalli, Ramanagar Dt. from 19th-23rd Aug 2024, in the online mode. The Session was conducted for 5th sem students. Around 50+ students attended the session and were encouraged to participate actively through assignments and hands on. The feedback received from the participants were positive and appreciated the clear and concise explanations about the Course.

Course Outcomes: After successfully completing the course, students will be able to: Understand the importance and necessity of Machine Learning, Working with Dataset (Preprocessing, exploration and Analysis), Machine learning Algorithms, Feature and Model Selection.

Resource Persons: Prof. Sindhu A & Prof. Godhandaraman T - Department of CSE (Data Science), Prof. Pooja Shree H R and Prof. Kavyashree I Pattan- Department of CSE.

DAYANANDA SAGAR UNIVERSITY
Department of Computer Science Engineering (DATA SCIENCE)

SCHOOL OF ENGINEERING
ORGANIZING
5 DAYS Value Added Course
on
Machine Learning Mastery: Boost Your Skills from Basics to Brilliance

Conveners:
Dr. Amit R Bhatt
Vice Chancellor, DSU
Dr. Udaya Kumar Reddy KR
Dean, SE
Dr. Ramesh R Galigekere
Deem(Acad), SOE
Dr. Shaila S G
Chairperson, Dept. of CSE (DS)

Organizers:
Prof Sindhu A
Assistant Professor
Prof Godhandaraman
Assistant Professor

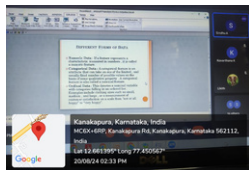
Student Organizers
Sindhu A S
5th Semester
Pooja Shree H R
5th Semester

19/8/2024 – 23/8/2024

Online Mode

Targeted Audience
5th sem Students

Registration Link: <https://forms.gle/gP9R8kT915t6d9P>



Accuracy Calculation

Accuracy = 0.8125
Precision = 0.8125
Recall = 0.8125

Accuracy: Accuracy is defined as the percentage of correct predictions on the test data.
Precision: Precision is the ratio between the True Positives and all the Positives.
Recall: The recall is the number of real world targets identified by the Positives.

	Real Labels	
Predicted Labels	Positive	True Positives (TP)
	Negative	False Positives (FP)
Real Labels	Positive	True Negatives (TN)
	Negative	False Negatives (FN)

Kanakapura, Karnataka, India
NCDX+6DP, Kanakapura Rd, Kanakapura, Karnataka 562112, India
Lat 12 661399° Long 77 450567°
23/08/24 12:53 PM

Industry - Academia Roundtable Series

Industry – Academia Roundtable Series, Mr. Paramananda Jena, Scientist G, Electronics & Radar Development Establishment (LRDE), DRDO, Ministry of Defence, Govt. of India

Title: Radar Signal and Image Processing using Deep Neural Network.

This lecture will cover the integration of deep neural networks (DNNs) in radar signal and image processing, showcasing improvements in detection accuracy, noise reduction, and object classification. Participants will discover how advanced machine learning techniques are transforming radar technology for better situational awareness and operational performance, Mr. Shripathi V, Director – Tech & BD, Structures & Multiphysics, Hexagon, Title: First Time Right: Design to Manufacturing In recent years, the integration of simulation techniques into the product design and manufacturing process has revolutionized the industry, leading to significant advancements in efficiency, accuracy, and innovation. Simulation-driven product design leverages advanced computational models and simulations to predict the performance, behavior, and manufacturability of products before physical prototypes are built. This approach not only reduces time and costs associated with traditional trial-and-error methods but also enhances the ability to explore a wider design space and optimize products for performance, reliability, and sustainability.

We will be planning this on 24th Aug 2024 at the DSU Main campus between 10 AM-12 Noon. The target audience is faculties from the School of Engineering.



International Conference on Quality Education 2024

The Department of International Affairs was privileged to host the “International Conference on Quality Education” in collaboration with the International Association for Quality Education (IAFQE). The event featured prominent leaders from Sri Lanka, including Hon. A. Aravindha Kumar, State Minister of Education, and Mr. Janaka Kamalgoda, President of IAFQE/SAIA4ECCD. The conference provided a platform for discussing educational policies and the vital role of quality education in shaping the future of students.

Agenda: Conference hosted by Dayananda Sagar University featured distinguished guests including Hon. A. Aravindha Kumar (State Minister of Education, Sri Lanka) Mr. Janaka Kamalgoda (President, IAFQE/SAIA4ECCD) along with 42 delegates from Sri Lanka, Date: August 20th & 21st, 2024, Time: 09:00 AM to 05:00 PM Venues: CDSIMER Auditorium (August 20th, 9:00 AM – 12:00 PM), School of Engineering, Board Room, 'A' Block, Campus 4.

A key meeting took place between Sri Lankan minister, delegates, including Dr. Puttamadappa C, Dr. Ashok S, Dr. Pushpa Sarkar and Dr. Kaushalya, & International Affairs, DSU where they engaged in a meaningful dialogue with the Sri Lankan Minister and Mr. Janaka Kamalgoda on the educational practices in India and Sri Lanka.

The event commenced with the ceremonial lighting of the lamp and a welcome address by Dr. Ashok S, followed by an inspiring speech from the Minister of Education, Sri Lanka, at the CDSIMER Auditorium. The conference then transitioned to the School of Engineering, where lectures and other activities continued throughout the day and into August 21st, at 3:30 PM, a friendly cricket match took place between the female delegates from Sri Lanka and the female staff of the School of Engineering. The match concluded with a victory for the DSU staff.



Student Activities

Department of CSE

Ms V.S.Nithya shree (ENG21CS0273), Final year CSE student, has performed Bharatanatyam at the Bharat Utsav event held in Dubai on the occasion of India's Independence Day. This event was attended by dignitaries from various embassies and esteemed guests, making it a truly prestigious platform to contribute a classical dance has a cultural exchange program.



Mr Swaraj khan (ENG21CS0433), 7th Semester CSE Student presented research article with the title “Automated PDF Q and a chatbot: Harnessing AI for Efficient Information Retrieval”, in the international conference on Computer Science, Machines Learning and Artificial Intelligence (ICCSMLAI) at Pune, India during 18th August 2024.



Department of Computer Science and Engineering Faculty members and students attended the annual summit Infosys springboard 2024 on 23rd August 2024 at Infosys campus, Bengaluru. It is the culmination of 400 number of Dayananda Sagar University students having achievement certification in Skill Enhancement Course by the dedicated efforts of Dr. Basavaraj N Hiremath, the SPoC of DSU and the team of faculty who were engaged in the skill enhancement course along with the course coordinator, Dr. Savitha Hiremath. Their collective hard work and guidance have led to this remarkable achievement.

Infosys' flagship digital learning platform, Infosys Springboard, fosters equitable learning by offering free access to world-class educational resources. Attending the Infosys Springboard Summit 2024 has been an incredibly enriching experience. The summit was further enhanced by the opportunity to listen to inspiring talks from top industry leaders, including Nandan M. Nilekani, Co-Founder and Chairman of Infosys Limited, and Mr. Pramod Verma, Former Chief Architect of Aadhaar and UPI. Their insights and experiences provided valuable motivation for both faculty members and students alike.



Harshith A N (USN No: ENG22CS0068), 5th semester student, Department of CSE, has participated in a 5 days' workshop on "Data analysis with Power BI and Rapid Miner", organized by Department of Computer Science & Engineering, School of Engineering, Dayananda Sagar University, Harohalli on 10th August 2024.



Department Aerospace Engineering

Dr Surya Narayana GK, Professor, Dept. of Aerospace, was invited as guest speaker for the International Conference on Advances in Aerospace and Navigation systems on 22-23 August 2023. The Guest lecture was on “Building Nano-Air Vehicle: SciTech Inspired by Insects”.

Dr Ramakumar, Professor, Dept. of Aerospace, presented a conference paper on Design Development Analysis and Actuation of Landing Gear System which was on online mode.

Prof Sripad Kulkarni S, Assistant Professor, Dept. of Aerospace, Mr. Raghav & Mr. Yashas V, Student of Dept. of Aerospace, presented a paper on Fixed Wing Unmanned Aerial Vehicle with High Endurance and Heavy Payload Capacity.

Mr. Samarth Mankan (ENG20AS0027) Joined University of California for pursuing his Masters of Science in Aeronautical and Astronautically /space Engineering.



Department CSE (AI&ML)

We have one more student from 3rd year AI&ML, Ms.Hasani, at the LeTourneau University, as part of the student exchange program. Ms.Hasani will be taking up her 5th semester at LeTourneau University, Texas,US.

I am thankful to Ms.Supriya Mathew, International Affairs, for continuous support in handholding the study abroad programme.



**SCHOOL OF
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