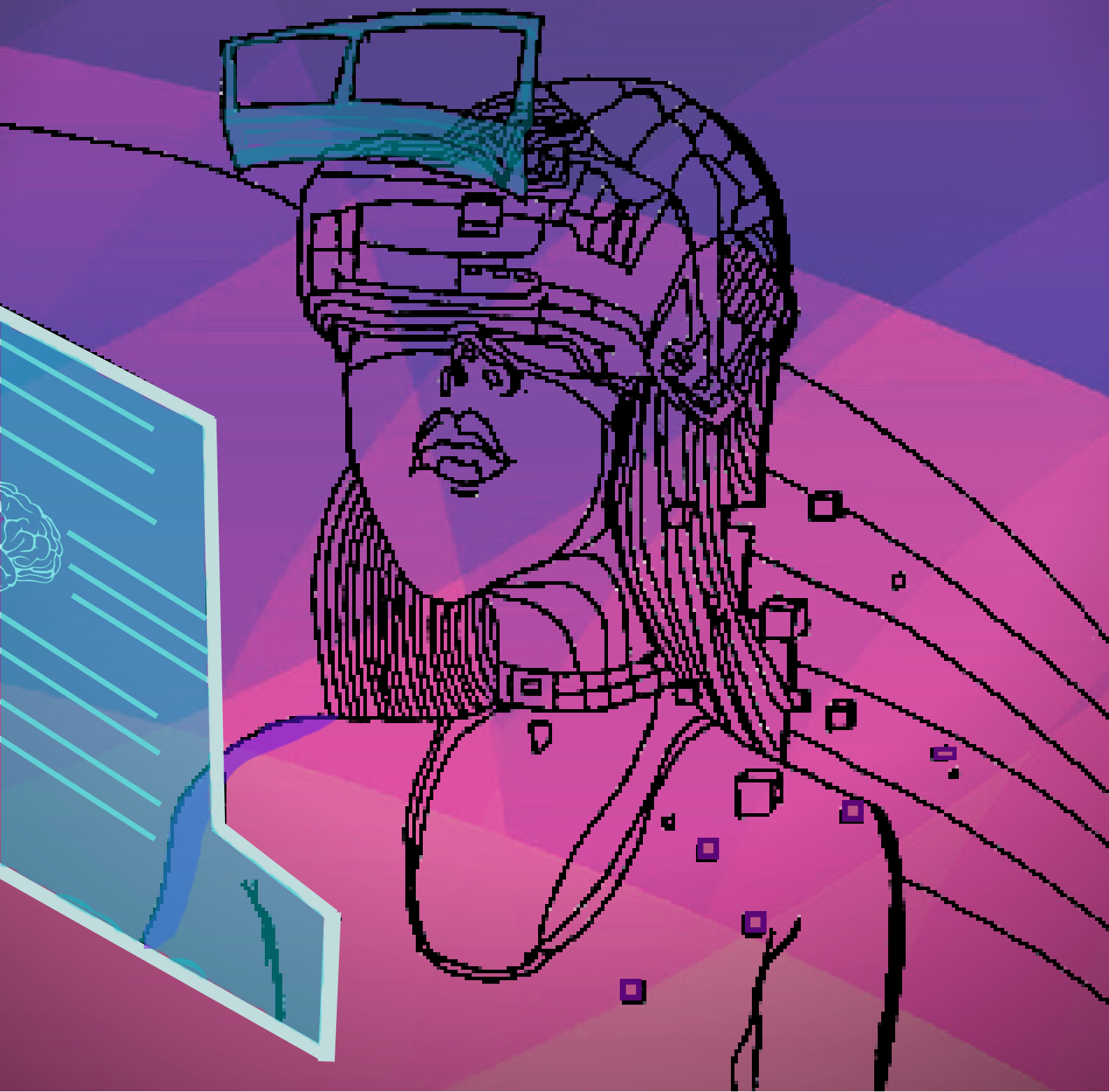
The future is now....

INSPERIA

CELEBRATING THE MACHINE WITH A HEARTBEAT

ISSUE - 1



AI&ML
AI&ML
MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY
COMPUTATIONAL INTELLIGENCE

ABOUT THE DEPARTMENT

MRCET offers a four-year undergraduate B.Tech course in Artificial Intelligence and Machine Learning, aimed at developing a solid foundation in AI and ML using principles and technologies like logic, knowledge representation, probabilistic models, and machine learning. It is best suited for students seeking to build expertise in these emerging technologies and grow their careers in the digital era. The course offers students exposure to a variety of applications and practical components of developing AI apps and platforms.

AI is a rapidly expanding field in computer science with a wide range of applications in various industries such as healthcare, security, entertainment, education and transportation. AI brings intelligence to machines by mimicking human intelligence. Machine Learning is an application of AI that tries to build self-learning ability into machines. Both AI and ML are important drivers of digital transformation and have created plenty of job opportunities.

The B. Tech. in Artificial Intelligence and Data Science (AI & DS) is also offered which is a four-year program providing students with skills in intelligent data analysis and knowledge of advanced innovations like AI, machine learning, deep learning, and natural language processing. It's a fast-growing field with a high demand for skilled professionals. The program focuses on statistical, and mathematical reasoning, knowledge discovery, affective skills, psychomotor skills, and visualization skills. With the literature and practices of Artificial Intelligence rapidly evolving, industries and businesses worldwide are undertaking massive projects to integrate AI and data analytics into their enterprise software systems.

Director's Message

The education provided by MRCET will always be a reflection of our beliefs, of their aptitude, and of our desire to create an environment in which they will see limitations as opportunities. The adoption of "INSPERIA, "the state-of-the-art mag produced via way of means of the CI branch, is one of the methods to discover now no longer best the modern-day technical surroundings but additionally a pupil`s degree of innovation. The magazine consists of data on a vast variety of workshops, events, certification programmes, cultural programmes, and sports activities sports held at MRCET, in addition to exceptional writings and creative creations submitted via way of means of proficient CI branch students. I respect the professor and pupil committee for beginning and launching "INSPERIA" successfully. Editions of "INSPERIA" posted in the latest years have positioned a sturdy emphasis on the branch's and its students' standards.

Regards,
Dr. V.S.K Reddy

Principal's Message

College magazine is the ideal combination of two crucial components of a successful education: encouraging innovation and nurturing creativity. It makes the most brilliant use of the academic community's creative potential and distil the essence of their inspired imagination. I'm excited to learn that the INSPERIA magazine from the CI department is ready for publishing. I would like to take this opportunity to applaud the editorial team for releasing this magazine on time, which is an amazing accomplishment in and of itself given the time and work needed. May all of our faculty, staff, and students soar to unimaginable heights and adorn the MRCET Campus and the professional world with a plethora of new feathers. I send my best wishes and success to the faculty and students of the CI department.

Regards,
Dr. S. Srinivas Rao

Dean's Message

I congratulate the team of students and teachers whose precious efforts have made this edition of "INSPERIA" accessible to us. It gives me immense pleasure to experience the warmth of this literary tradition in resonance with the glorious past of the institution. I feel privileged to be a part of this reputed temple of learning that houses the stakeholders who thrive to maintain the dynamic spirit of learning and discovering through such endeavours. The college is firm in its resolve to provide support to academic events and the publication of literary writings. I wish INSPERIA will scale greater heights with the active participation of students and staff members of this institution. To address these needs, we have enabled a newer structure that facilitates Creative Thinking through greater freedom to Learn, Experiment and Innovate while keeping the fundamentals of National Education Policy through Curriculum Architecture, Pedagogical excellence and Credits for Innovative and Creative thinking as a part of the evaluation. We feel it is time for us to “Reinvent” and encourage Students and faculty to align them with Creative Thinking.

Regards,
T. Venu Gopal

HoD's Message

The actual goal of an educational institution is to present students with a variety of platforms that allow them to explore their intrinsic skills, challenge the limits of their creativity, and bring out their best selves. There are inventive solutions for practically every problem. We are delighted and inspired to keep doing better in the future! Since MRCET is based on the belief that "Intelligence is not a privilege but a gift to be used for the good of Humanity," students can be sure to have an enlightening experience that inspires them to take full advantage of the opportunities presented to them. One of the venues offered by the CI Department of MRCET is the creation of the informative magazine "INSPERIA." It gives the department great pride to see how hard their students worked to create the magazine, which always stood out as one of the CI department's accomplishments. I'm hoping that the magazine will serve as a fantastic prototype that the students may assess and use as a springboard for further skill-enhancement research.

Regards,
Dr. Sujatha

Editorial Desk

Our Insperia includes all of the activities and events that take place on the MRCET Campus. The MRCET Campus has always placed a high value on fostering creative thinking and teamwork that is focused on a common goal. This is evident in every aspect of the institution, not just in academics. The students of the CI department are actively involved in a wide range of activities, developing a creative mind that is enhanced by close mentoring and guidance from the faculty. The highlights of this edition of Insperia serve as evidence of the MRCET's commitment to developing talent. The instructors and students who have worked tirelessly day and night to make the magazine a success by showcasing the top skills, deserve recognition for the campus' vibrancy. The management also deserves recognition for their support. The magazine serves as a window into the hard work, dedication, and achievements of the students and faculty members at MRCET. It is a true reflection of the vibrant and dynamic community that exists on our campus. We hope you enjoy reading this edition and discover the many opportunities and achievements of the students at MRCET.

Student's Editorial Team

Ch. Jaya Tejaswi - CSE (AIML - A)

D. Ajay Reddy - CSE (AIML - A)

S U Vaishnav Raj - AI&DS

G. Manish Raj - CSE (AIML)

Nishant Bansal - AI&DS

Muskaan Fatima - AI&DS

G. Akanksha - AI&DS

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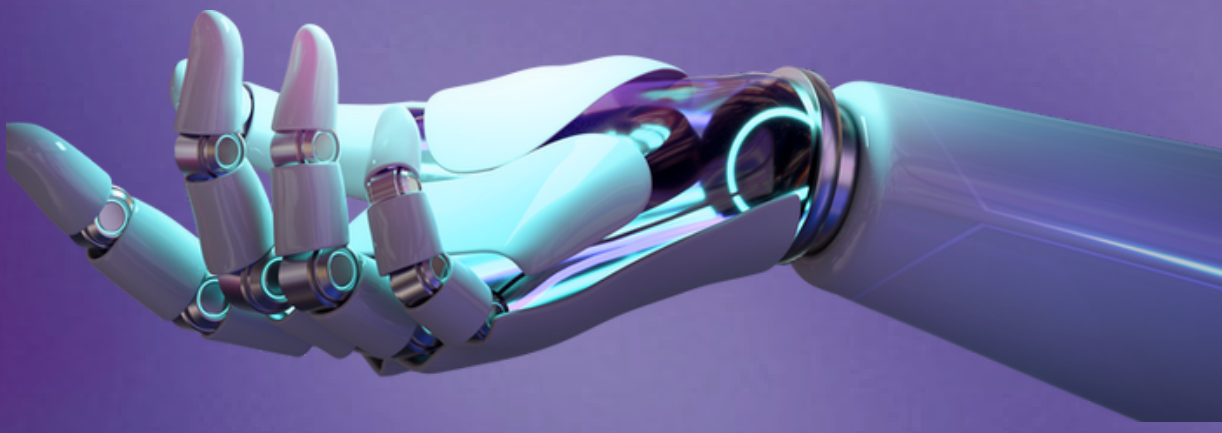
WORKSHOPS



Insperia

REPORT ON MACHINE LEARNING WORKSHOP

A five-day workshop titled “Hands On Workshop in Machine Learning” was organized by the Department of Computational Intelligence from 27-06-2022 to 01-07-2022 in the AIML lab at Malla Reddy College of Engineering and Technology (MRCET). The workshop was conducted under the umbrella of Industrial Experts. The students of B-tech II year CSE AIML enthusiastically participated in the workshop and experienced the tremendous capabilities of Machine Learning. The trainers for the workshop were Mr Krishna, Mr Siva and Mr Hari.

The Inaugural ceremony of the workshop was conducted in Main Auditorium at 09:30 AM. Dr Srinivas Rao, Principal (MRCET), Dr D. Sujatha, HOD of CSE (CI), and Dr Kamal, HOD of CSE(ET) have occupied the dais.

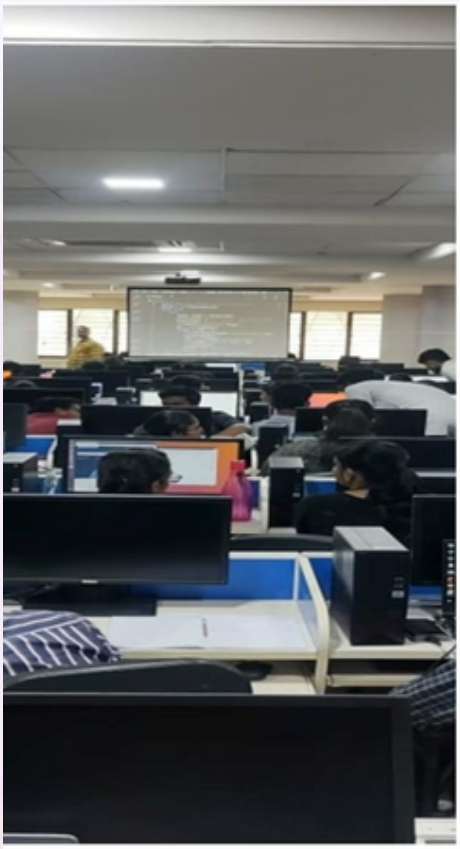
Dr S. Srinivasa Rao, the Principal, addressed the gathering with his eminent speech about the importance of Machine Learning & its applications and also requested the students to make use of hands-on sessions in ML. He has also motivated the students to develop projects by absorbing the knowledge from the workshop.

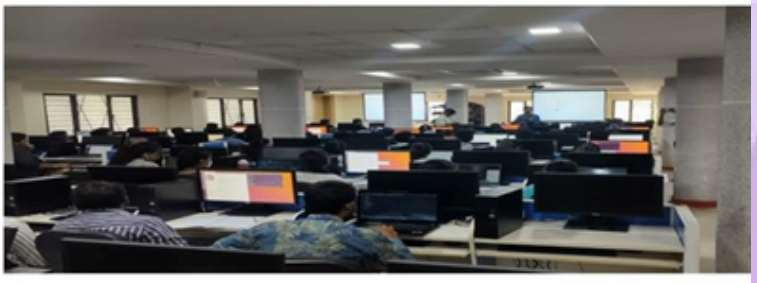
Insperia

Dr D. Sujatha, HOD of CSE (CI), formally welcomed all the students and the speakers and thanked our Principal for accepting to organize this five-day workshop. She also elaborated on Machine learning and insisted the students to use this opportunity and grasp the knowledge. She explained the objectives and the agenda for the 5-day workshop.

Dr Kamal, HOD of CSE(ET), addressed the students with an informative speech about Machine Learning. He advised the students to grab the opportunity to implement projects in various domains using Machine Learning.

The workshop was full of hands-on sessions along with conceptual knowledge about the contents. The students not only enjoyed but also learned a lot from the workshop. All the sessions are highly engaging and interactive with the students. At the end of the workshop, feedback is collected from the students.





REPORT ON R-PROGRAMMING

The 5-DAY R programming workshop started on 22nd November 2022 for the 2nd year B.Tech students of the branches AI&DS and AI&ML which was initiated by our respected principal sir, The Head of the Department and all the faculty. The Principal sir encouraged and gave all the information about the workshop and its prominence In the future to all the students. Our beloved HOD madam introduced the workshop mentor Mr Chaitanya and then the workshop commenced in the newly inaugurated lab which was fully equipped with all the required facilities. R is an integrated suite of software facilities for data manipulation, calculation and graphical display. It includes an effective data handling and storage facility, a suite of operators for calculations on arrays, in particular matrices, a large, coherent, integrated collection of intermediate tools for data analysis, graphical facilities for data analysis and display either on-screen or on hardcopy, and a well-developed, simple and effective programming language which includes conditionals, loops, user-defined recursive functions and input and output facilities.

The detailed DAY-TO-DAY schedule of the workshop is given below.

DAY-1

1. Installation and downloading, features of R programming and its interface
2. Declaration and assignment of variables and how to print them
3. Types of data types and syntax for finding the data type of a variable
4. Types of Operators (symbol, usage, examples)
5. Conditional and unconditional statements (syntax, examples) and syntax for taking input from the user
6. Vector (syntax, example), other built-in functions like min(), max(), prod(), sum(), mean(), median()

7. Types of loops (syntax, examples) & Sequence function, usage of range in them
8. Programs regarding the above topics and assignment questions

DAY-2

1. Functions (syntax, examples), the scope of the local and global variable
2. Accessing and slicing of vectors, escape sequences, inbuilt functions concatenate and paste functions
3. Matrix
    - Creation and arrangement of elements using a vector
    - Number of rows and columns and their names
    - Adding new rows, columns and updated names and transposing a matrix
    - Inbuilt functions of the matrix which apply to individual rows and columns.

DAY-3

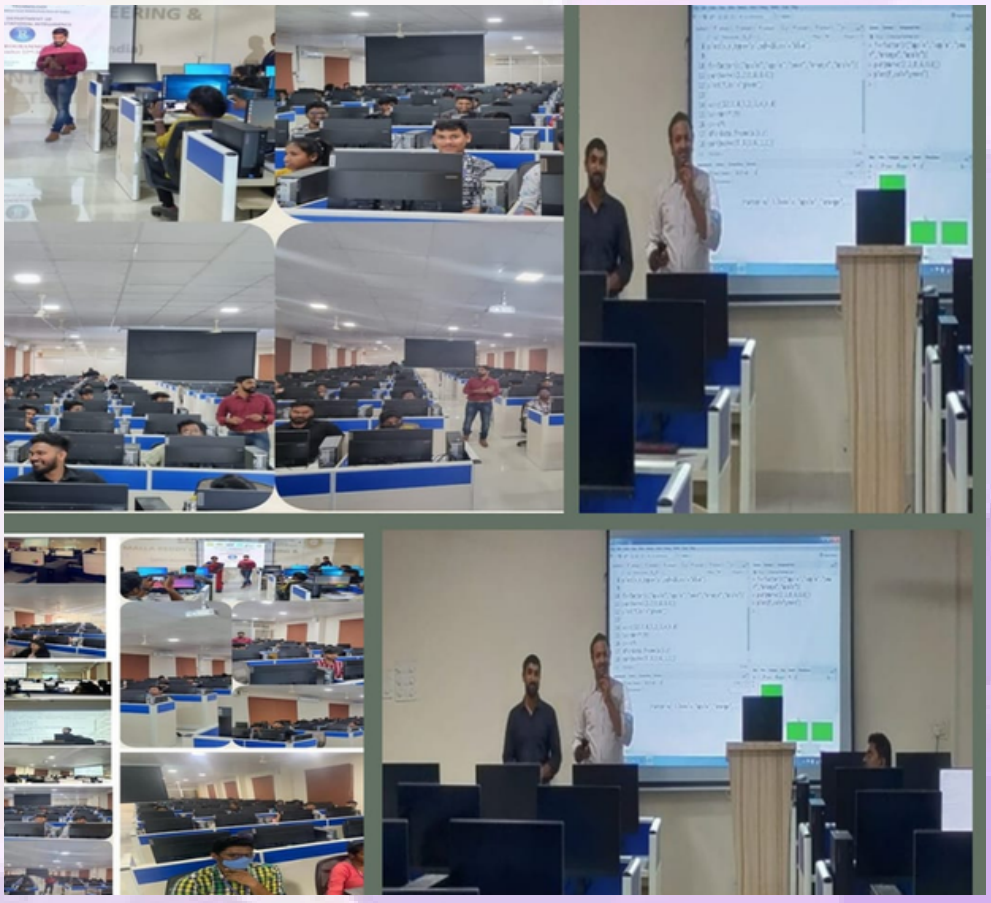
1. List (declaration, accessing, usage, syntax)
2. Factors (declaration, ranking, usage, syntax) and how to get the structures
3. How to import and export a CSV file, and their manipulations
4. Introduction to data frames and their manipulations
5. Installation of packages like tidyverse, ggplot2 , tibble, dplyr

DAY-4

1. Data transformation
    - Real-time data set manipulation
    - Handling the inbuilt functions of tidyverse like select(), filter(), group_by(), summarize(), summary(), count()
    - Introduction and usage of the pipe operator
2. Data visualization and its layers
    - Histograms and their inbuilt functions
    - Bar graphs and their inbuilt functions

DAY-5

1. Data visualization
    - Scatters plot
    - Pie chart (2D, 3D)
    - Skewness and its types
2. Statistics
    - Mean, median, mode, variance and standard deviation and their programs
3. Object-oriented programming in R
    - Classes, objects, methods, inheritance (declaration, syntax, usage)
    - Implementation of polymorphism through different graphs



REPORT ON HTML, NODEJS, REACTJS WORKSHOP

The 6-DAY HTML, CSS, NodeJs, and ReactJs workshop for second-year B.Tech students in the CSE-AI&ML branch began on November 7, 2022, at the initiative of our esteemed Principal sir, the department head, and all the faculty. The HOD promoted the workshop and provided all of the students with information about it and its significance in the future. The workshop began after our beloved HOD madam introduced the workshop mentor, Mr Praveen Gubbala, at the Placement Block lab, which was completely furnished with all great facilities.

The coding that organises a web page's content is called HTML (HyperText Markup Language). Content may be organised using paragraphs, a list of bulleted points, graphics, and data tables, among other options. HTML is an essential language in web development and is used to create the structure of a web page.

Web pages are styled and laid up using CSS (Cascading Style Sheets), which can be used to change the font, colour, size, and spacing of your text, divide it into numerous columns or add animations and other ornamental elements. CSS is a powerful tool that allows developers to separate the presentation of the website from the HTML code, making it easier to make changes to the website's design.

NodeJS is a framework of JavaScript mainly used for working with the backend of our application or building the backend using JavaScript, whereas ReactJs is a JavaScript front-end library mainly used for building the user interface or the frontend of our application.

Throughout the workshop, students felt motivated and encouraged by exploring new subjects and getting to know experts in their own profession. The students learned more about their profession and how things actually happen in the real world by listening to Mr. Praveen Gubbala, a well-known personality in the workshop.

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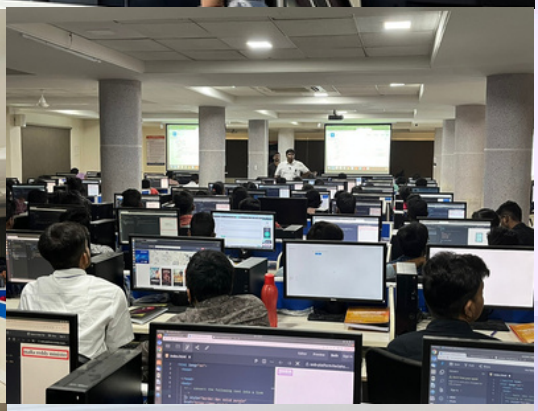

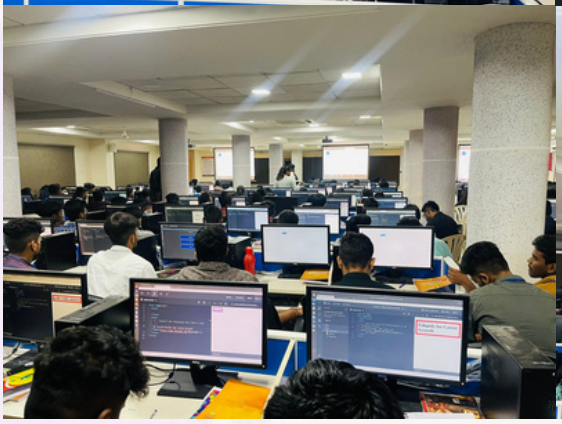

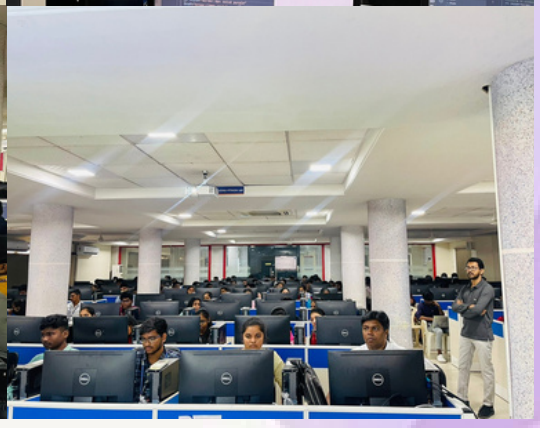

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REPORT ON CRT

On October 17, 2022, the first phase of CRT began for third-year BTech students of the branch CSE-AIML. It was organized by our esteemed principal sir, the department head, and all of the faculty. The principal promoted the training and provided all of the students with information about it and its importance in the future. This CRT session ended on 21st October 2022 and it was continued as a second phase from 9th January 2023 to 11th January 2023. CRT plays a very important role in a student's life as it helps them to prepare themselves for placements that will take place in the last year of their degree.
The training's detailed schedule for both phases is provided below.

PHASE I

Day 1

1. Quantitative ability-Number Systems
2. Recruitment Essentials-Self-Introduction, Extempore

Day 2

1. Reasoning Ability-Coding And Decoding, Number Series, Analogy and Visual Reasoning.
2. Recruitment Essentials-Grooming, GD Tips

Day 3

1. Quantitative Ability-Ratio & Proportion, Equations, Ages
2. Recruitment Essentials-Resume & PI Tips

Day 4

1. Reasoning Ability-Seating Arrangements, Cubes & Dice
2. Verbal Ability-Articles & Prepositions

Day 5

1. Quantitative Ability-Percentages, Simple Interest, Compound Interest
2. Verbal Ability-Tenses and Adjectives

PHASE II

Day 1

1. Verbal ability-Subject verb agreement, Sentence correction.
2. Python - Basics, data types and operators

Day 2

1. Quantitative Aptitude-Profit and Loss, Partnership
2. Python-Control Statements

Day 3

1. Reasoning Ability-Blood Relations and Directions 2.Python-Strings

The CRT session was a success and students took a lot of input from all the sessions that were conducted. This could only happen through the guidance of our beloved HOD Ma'am and Principal sir.

GUEST

LECTURES

Insperia

VISHNU SAI PRITHVI

-Founder of IKONOS Technologies

Vishnu Sai Prithvi is the founder and CEO of IKONOS technologies. He completed his B.Tech from Aurora group of institutions and Masters from Boston University. While studying, he and his friends started a website which uploads videos, notes etc but stopped it after an year due to regret as it had the same idea as Byjus. After completing his B.Tech, he asked his parents for capital to establish his own startup company, but they rejected his proposal.

After his Master's, he worked for a while, saved some money, and with the help of his family and friends, he started his own company with his friends. The company did not do well and closed after a while, but with the help of his family and friends, he again started another company called IKONOS, which initially took up private projects and later took up government projects. He lost many employees during the pandemic but post-pandemic, his company started working the way it used to run. He believes that persistence and zeal are the most important things to be an entrepreneur, and suggests trying to be an entrepreneur and make good connections and try to build a good portfolio. He states that there are three ways to get help to start a company: family and friends, personal savings and investors and a good idea which can give good returns. He also welcomes people who are interested in getting internships for students. He regrets not having the persistence to continue his website in college, if he had it, his company would have been competing for e-learning platforms.

REPORT ON AI-BASED INNOVATION WEBINAR

A Webinar on AI-based innovations has been conducted on 10th Aug 2022 at Malla Reddy College of Engineering and Technology in the Main auditorium. As we know, AI is dramatically changing the way the world works by making machines that are programmed to think like humans and mimic their actions. The influence of Artificial Intelligence technologies on society and human beings has been strong. The number of applications of AI is increasing, and the AI research field is expanding. The applications of AI range from speech recognition, problem-solving, learning and planning, etc. In this direction, the Department of Computational Intelligence in association with the Institution's Innovation Council has organized a Webinar on AI-Based Innovations for III-year CSE (AI/ML) students.

The programme is designed to enhance the learning and research skills of the participants and to make them aware of modern innovations in AI. It provides an opportunity to acquire knowledge about current technological developments in relevant fields.

The Webinar started in the afternoon at 02:00 pm. Around 60 students actively participated and gained useful information from the session. Ms K. Nirosha Started the session by giving a brief introduction about the speaker and thanked him for accepting our request.

Insperia

Dr D. Sujatha, HOD of CI, welcomes the chief guest along with other dignitaries and briefly introduced the objective of the webinar to the participants. She briefly enlisted the application of AI in our daily life and the advantages of using the technology.

Dr P H V Sesha Talpa Sai, Dean (R&D), addressed the participants about the working of the Institution's Innovation Council and how it is useful for the students. He briefed about some of the applications of AI. He also encouraged the participants to utilize the opportunity to its maximum. He advised the participants if they could come up with some AI applications or with any ideas the IIC will help them to develop that into a prototype.

Dr T. Senthil Kumar, Associate Professor, Amrita School of Engineering, Coimbatore, is the speaker for the day. He discussed different algorithms like K-Nearest Neighbour, Boosting algorithms, Convolution Neural Network algorithms etc and gave live examples. He shared about various innovations he had carried out in his university and explained the various innovations that students can start working on.

STUDENTS

ACHIEVEMENTS

Insperia

THE ULTIMATE LIST OF

CERTIFICATIONS

coursera

CAMBRIDGE
UNIVERSITY PRESS

CSM - A

COURSERA CERTIFICATIONS

1. J.KEERTHI - 21N31A6663 - 18
2. A.PRANAVI - 21N31A6606 - 11

TOTAL - 100+ CERTIFICATIONS

CAMBRIDGE CERTIFICATIONS

1. CH. JAYA TEJASWI - 21N31A6642 - B2

TOTAL 60+ B2 LEVEL CERTIFICATIONS

CSM - B

COURSERA CERTIFICATIONS

1. SOHAIL - 21N31A66B4 - 2
2. SIRI CHANDANA - 21N31A6681 - 1

TOTAL - 80+ CERTIFICATIONS

CAMBRIDGE CERTIFICATIONS

TOTAL 60+ B2 LEVEL CERTIFICATIONS

CSM - C

COURSERA CERTIFICATIONS

1. RAVALI - 21N31A66E6 - 10
2. P.VENGA BABU - 21N31A66D3 - 7

TOTAL - 100+ CERTIFICATIONS

CAMBRIDGE CERTIFICATIONS

TOTAL 60+ B2 LEVEL CERTIFICATIONS

Insperia

THE ULTIMATE LIST OF

CERTIFICATIONS

coursera

CAMBRIDGE
UNIVERSITY PRESS

IBRIDGE
Y PRESS & ASSESSMENT

Certificate of Completion

This is to certify that *Ajay Reddy Dharmajipeta*
has participated and completed
Cambridge English Empower Level B2 course
t Malla Reddy College of Engineering And Technology (MRCET)

Himanshu Matta
Business Head – HE&A
Cambridge University Press & Assessment

idge University Press & Assessment is a non-teaching department of the University of Cambri

B.TECH - AIML

COURSERA CERTIFICATIONS

1. K.VINAYAK - 21N31A7324 - 12
2. P.ABHINAV - 21N31A7342 - 11

TOTAL - 100+ CERTIFICATIONS

CAMBRIDGE CERTIFICATIONS

TOTAL 60+ B2 LEVEL CERTIFICATIONS

B.TECH - AI&DS

COURSERA CERTIFICATIONS

1. D. AKSHITHA-21N31A7204 - 35
2. B.MANOJ KUMAR - 21N31A7207 - 33

TOTAL - 400+ CERTIFICATIONS

CAMBRIDGE CERTIFICATIONS

1. MUSKAAN FATIMA- C1

TOTAL 60+ B2 LEVEL CERTIFICATIONS

CSM - III

COURSERA CERTIFICATIONS

1. B.NITHYA - 20N31A6603 - 7
2. K.SAI BHUVANESHWARI - 20N31A66D3 - 7

TOTAL - 120+ CERTIFICATIONS

CAMBRIDGE CERTIFICATIONS

TOTAL 60+ B2 LEVEL CERTIFICATIONS

Insperia

SPECIAL ACHIEVEMENTS

NAME	ROLLNO.	CLASS	ACHIEVEMENT
AASLESH	21N31A7210	AI&DS	1st Prize in Quiz,2nd Prize in Painting(Tech fest 2022)
NIKHIL	21N31A7214	AI&DS	1st prize in Quiz(Tech fest 2022)
LOKESH	21N31A7225	AI&DS	1st prize in Treasure Hunt(Tech fest2022)
ABHISHEK	21N31A7236	AI&DS	1st prize in Quiz(Tech fest 2022)
PRAVEEN	21N31A7263	AI&DS	1st prize in Quiz(Tech fest 2022)
CHETHANA	21N31A7220	AI&DS	1st prize in Quiz(Tech fest 2022)
SOHAIL	21N31A66B4	CSM-B	2nd in Fastest fingers first,1st in Essay Writing
AJAY SAI	21N31A6671	CSM-B	1st prize in short film
SATWIKA	21N31A6688	CSM-B	Best Orator
SOHAIL	21N31A66B4	CSM-B	2nd prize in fastest fingers first, 1st prize in Essay Writing Competition
VISHNU VARDHAN	21N31A6670	CSM-B	Best Orator
YASWANTH SAI	21N31A66J7	CSM-C	2nd prize in logic mantra (ESPJRJTO 2K22) BY CSE department

NAME	ROLLNO.	CLASS	ACHIEVEMENT
AJAY	22N35A6606	CSM - A	Optical fiber certificate from SPR.Human capital solutions company, Amadeus(flight ticket booking process)
RUTHIKA	21N31A7245	AI &DS	State third rank in CLB olympiad
NISHANT BANSAL	21N31A7250	AI &DS	Completed Hacktober Fest 2022, Contributed in Open Source
JITENDER	21N31A6697	CSM - B	Participation certificate in Code Hackathon and Fastest Finger first
INDUMATHI	21N31A7317	AIML	AICTEE 1st position in startups
SAI CHARAN	20N31A6623	CSM-III	Completed 2 day workshop at IIT Hyderabad, developed attendence system at our dept. level in college
RAJINIKANTH	20N31A6624	CSM-III	Completed 2 day workshop at IIT Hyderabad
BHUVANESHWARI	20N31A6629	CSM-III	Completed workshop at IITH, Author at IGI publications, Semifinalists of SIH 2022
MOUNIKA	20N31A6655	CSM-III	6 weeks Machine Learning course from internshala.
HARSHIT RAJ	20N31A6619	CSM-III	Hackathon runner up in college level
NITHYA	20N31A6603	CSM-III	Editor of Newspaper Articles published in Emerging Technologies magazine
KSHIPRA SINGH	20N31A6630	CSM-III	Member of Animal Support Rights, Writer of teen stories committee

SPORTS ACHIEVEMENTS

NAME	ROLLNO.	CLASS	ACHIEVEMENT
AASLESH	21N31A7210	AI&DS	1st prize in kabaddi(coeval 2022)
RAJA	21N31A7215	AI&DS	Member of district cricket team
SANTOSH	21N31A7224	AI&DS	1st prize in kabaddi(coeval 2022)
SAIKUMAR	21N31A7229	AI&DS	2nd in Cricket Tournament
SAI CHARAN	21N31A7239	AI&DS	2nd in Cricket Tournament
GOPI PRASAD	21N31A7241	AI&DS	1st prize in kabaddi(coeval 2022)
SIRAJ ALI	21N31A7242	AI&DS	1st prize in kabaddi(coeval 2022)
AJAY KUMAR	21N31A7308	AIML	Kabaddi & Cricket in college level
VISHWATEJA	21N31A7318	AIML	Tennis ball cricket championship
INDUMATHI	21N31A7317	AIML	Karate State level Championship
PRABHAS	21N31A7325	AIML	National Level Rugby, SGF, Cricket in district level

NAME	ROLLNO.	CLASS	ACHIEVEMENT
SAIKRISHNA	21N31A7341	AIML	Kabaddi in college level
ABHIRAM	21N31A7363	AIML	Cricket championship runners
SUDHEER	21N31A7364	AIML	Cricket championship runners
ARJUN	21N31A7348	AIML	Taekwondo Championship
KENNETH	20N31A6615	CSM-III	Secured 2nd position in Fittest of Telangana(2022-2023), 1st position in arm wrestling, 23 medals from sports
SAI CHARAN	20N31A6623	CSM-III	Medals in Martial
ABDUR RAZZAQ	20N31A6636	CSM-III	1st in College Cricket Tournament, 2nd in kabaddi
KSHIPRA SINGH	20N31A6630	CSM-III	National level skater, 6th position in national level skating tournament
SAMUEL RAJ	20N31A6639	CSM-III	6th position in Jr. Tennis Championship

FACULTY ACHIEVEMENTS

BOOKS AUTHORED

Sl. No.	Name of Faculty	Title of the Book	Publisher's Name	Year of Publication
1	D Chandra Sekhar Reddy	Data Structures	Charulatha Publishers	2022
2	Dr. B Priyanka	Operating Systems	Scientific International Publishing House	2022
3	Dr Jaishri Wankhade	Advances in Parallel Computing Technologies and Applications	IOS Press	2021

PUBLICATIONS

Sl. No.	Name of Faculty	Name of Refereed Journal	National/ International	Title of the Paper	Year of Publication
1	Dr. P Harikrishna	Advances in Engineering Software	International	Load Balancing in Cloud Environment using Enhanced Migration and Adjustment operator Based Monarch Butterfly optimization	2022
2	Dr D Sujatha	Journal of Interconnection Networks	International	Deep Learning CNN Framework for Detection and Classification of Internet Worms	2022
3	Dr D Sujatha	Journal of Computer Virology and Hacking Techniques	International	Joint detection and classification of signature and NetFlow based internet worms using MBGWO-based hybrid LSTM	2022

Articles

Insperia

THE RISE OF MICROCHIPPING

Microchipping is the process of embedding tiny RFID chips into the body to store and transmit data. Originally used in animals, it is now being used in humans for medical implants and secure payment methods. The benefits of microchipping include quickly identifying lost pets, providing a permanent form of identification and medical applications. However, there are concerns about privacy and security risks. It is important to keep your contact information up to date in the national database in case your pet gets lost or stolen and to consider the potential risks and benefits before making a decision. Additionally, it's important to update your contact information in the database if you move or change your phone number.

BENEFITS AND RISKS OF MICROCHIPPING

BENEFITS:

Microchipping helps quickly identify lost or stolen pets, aids in identifying animals in shelters, and provides permanent identification. A microchip is a long-lasting identification method compared to tattoos or collar tags.

RISKS OF MICROCHIPPING:

Microchipping has risks like infection at the implantation site, chip movement under the skin and a rare risk of cancer at the site of implantation. These risks can be avoided by ensuring that the person carrying out the procedure is trained and experienced. Microchipping is relatively inexpensive and easy to insert, and most veterinarians can perform the procedure in just a few minutes with minimal discomfort for your pet.

G. GOVARDHAN SATYA SAI
CSE-AIML-A
21N31A6652

Insperia

ENERGY CONSUMPTION

Energy conservation aims to reduce unnecessary energy use by modifying behaviour or using energy more efficiently. This can lead to benefits such as decreased greenhouse gas emissions, lower carbon footprint, and cost savings. In building construction, energy conservation is crucial as it accounts for 40% of the country's energy consumption. The significance of energy conservation has been highlighted by concerns about climate change and global warming. Energy can only be changed from one form to another with the use of machines such as heat to vehicle power or hydroelectric power. To change energy from one form to another, however, requires the use of machines.

When this machine is operating, the wear and friction of its parts result in significant energy losses and substantial associated expenses. By using green engineering techniques to lengthen the component life cycles, it is possible to reduce these losses.

Energy can only be changed from one form to another, like when heat energy is transformed into vehicle motive power or when the kinetic energy of flowing water is transformed into electricity during the hydroelectric power process. To change energy from one form to another, however, requires the use of machines. When this machine is operating, the wear and friction of its parts result in significant energy losses and substantial associated expenses.

B. HEMA SREE ALEKHYA
CSE-AIML-A
21N31A6628

Insperia

THEATRE VS OTT

During the COVID pandemic, OTT platform users have risen sharply. Movies now release directly on OTTs and many OTTs produce their own films. Theatres face competition as new OTT platforms launch.

OTT PLATFORMS:

OTT media service is directly available to viewers, bypassing traditional controllers like cable, broadcast, and satellite. It can also refer to apps or cell phones that transmit data to avoid monopolistic competition.

PROS OF OTT:

1. The content is available whenever we want to watch it. OTT platforms offer convenience and adaptability.
2. OTT platforms offer accessible home-based streaming for all users, especially those in remote areas or with limitations.
3. OTT platforms are cost-effective for binge-watchers with a subscription fee for unlimited content.
4. NRIs (Non-resident Indians) can now easily watch Indian movies due to the proliferation of OTT platforms.

CONS OF OTT:

1. The rise of OTT platforms threatens theatre jobs. OTT platforms create new, highly skilled jobs but theatre owners face reduced returns on investments.
2. Not everyone yet has a smart TV or smartphone. Furthermore, many people must visit movie theatres to watch and participate in 3D and 4D films. Therefore, OTT services cannot entirely replace theatres.
3. Some blame OTT platforms for box office failure, but it's only partly true. People prefer to watch movies on OTT platforms after they release.
4. OTT platforms are expensive for people who only watch movies occasionally.

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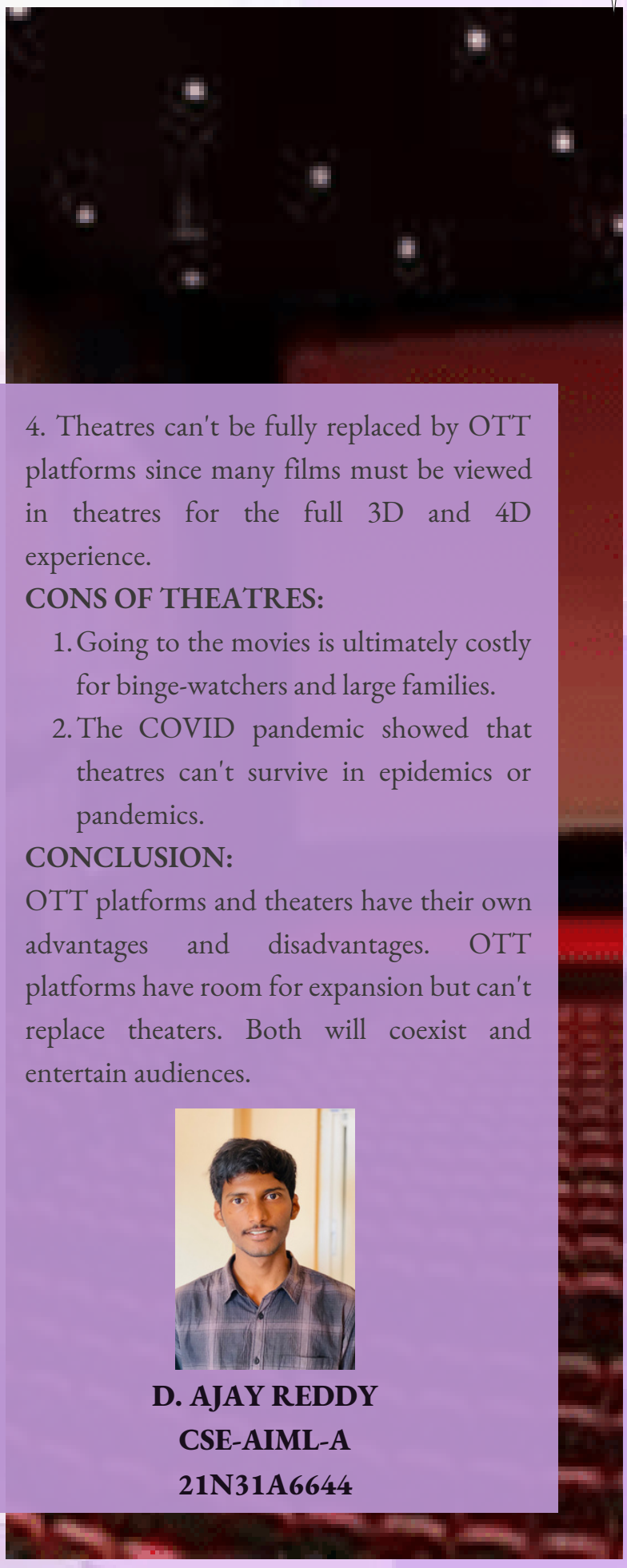
THEATRE VS OTT



Theatre is a collaborative art form that includes live performers to portray real or imagined events in front of a live audience on a stage, using various techniques such as gesture, speech, song, music, and dance. Stagecraft, lighting, and painted scenery make the experience more visceral and present.

PROS OF THEATRES:

1. Movie theater experience can't be replicated by streaming platforms
2. Meeting friends and family for watching movies in the theatre improves relationships and bonding.
3. A large number of both skilled and unskilled workers are employed in theatres.
4. Theatres can't be fully replaced by OTT platforms since many films must be viewed in theatres for the full 3D and 4D experience.

CONS OF THEATRES:

1. Going to the movies is ultimately costly for binge-watchers and large families.
2. The COVID pandemic showed that theatres can't survive in epidemics or pandemics.

CONCLUSION:

OTT platforms and theaters have their own advantages and disadvantages. OTT platforms have room for expansion but can't replace theaters. Both will coexist and entertain audiences.

D. AJAY REDDY
CSE-AIML-A
21N31A6644

Insperia

SMART SYSTEMS AND AI

Cities throughout the world that use smart technologies and services are being evaluated quickly. Before diving into the subject, let's define smart systems, services, and artificial intelligence precisely. A smart system is one that makes use of technology to control consumption, indirectly lower operating costs, and boost productivity. Building intelligent computers that can carry out tasks that traditionally require human intelligence is the goal of artificial intelligence (AI). The performance of the system will be enhanced and duties will be made simpler with the application of AI in smart systems. In addition to being addressed by professionals in the industry, smart cities, smart manufacturing, and smart homes have drawn attention due to the extensive discussion they have received in the scientific literature. These ideas are typically linked to improvements in particular fields through the creation, use, and application of intelligent machines and artificial intelligence (AI).

Researchers are optimistic about the potential impact of AI Smart Systems research. Smart systems research is expected to benefit many areas of human life including healthcare, transportation, education, commerce, information retrieval, and scientific study. Most smart devices lack privacy and security features to protect sensitive data. Users often believe security is enabled by default, preventing them from installing measures, and allowing unauthorized access.

K. SAI BHUVANESHWARI
CSE-AIML(III)
20N31A6629

Insperia

VIRTUAL REALITY

An interactive, simulated visual and aural experience created by computer technology is known as Virtual Reality(VR). This setting can be a fantastical realm or something that seems like the real world. Users can play and interact with virtual things in the immersive environment either by themselves or with other users. VR technology has been incorporated into a variety of industries, including gaming, healthcare, automotive applications, and e-learning. SuperData Research Holdings, Inc. projects that by 2020, sales of VR hardware and software will total $37 billion (USD). In recent years, VR's overall profits have increased dramatically.

VR games are made to improve presence and immersion, two psychological effects that cannot easily be achieved with conventional "flat screen" games played on a computer monitor or television. Presence is the psychological effect that one is actually interacting with the virtual world outside of their physical bodies.

ADVANTAGES OF VR:

1. Virtual reality facilitates travelling without physically being there.
2. Virtual Reality has benefited the educational system.
3. It Creates a Realistic World.
4. Increases Interest and Engagement towards a subject.

DISADVANTAGES OF VR:

1. It is Expensive to implement.
2. Complex Technology.
3. Addiction to Virtual Reality.
4. Psychological Damage.

B. Maneeshwar
CSE-AIML-A
21N31A6618

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HOW ARTIFICIAL INTELLIGENCE WORKS IN SPACE?

Artificial intelligence (AI) is revolutionizing the way we explore and study space. The analysis of large datasets from space missions is one area where AI has made a significant impact. The Kepler spacecraft, for example, collected over 4 terabytes of data on exoplanets during its mission and AI algorithms were able to quickly and accurately identify potential exoplanets in the data. Additionally, AI is being used to control and operate spacecraft such as the Mars rover Curiosity, which uses AI algorithms to navigate and explore the Martian surface independently. This makes the rover more efficient and allows it to explore areas that may be too dangerous for humans to go.

G.MANIKANTA REDDY
CSE-AIML-A
21N31A6651

Artificial intelligence (AI) is playing a vital role in space exploration by analyzing data and controlling spacecraft. AI is helping in the analysis of large datasets from space missions and can control spacecraft like the Mars rover Curiosity. AI is also being used in the development of autonomous space habitats, which could house and support human life on long-duration space missions. Overall, AI has the potential to greatly enhance our understanding and exploration of space.

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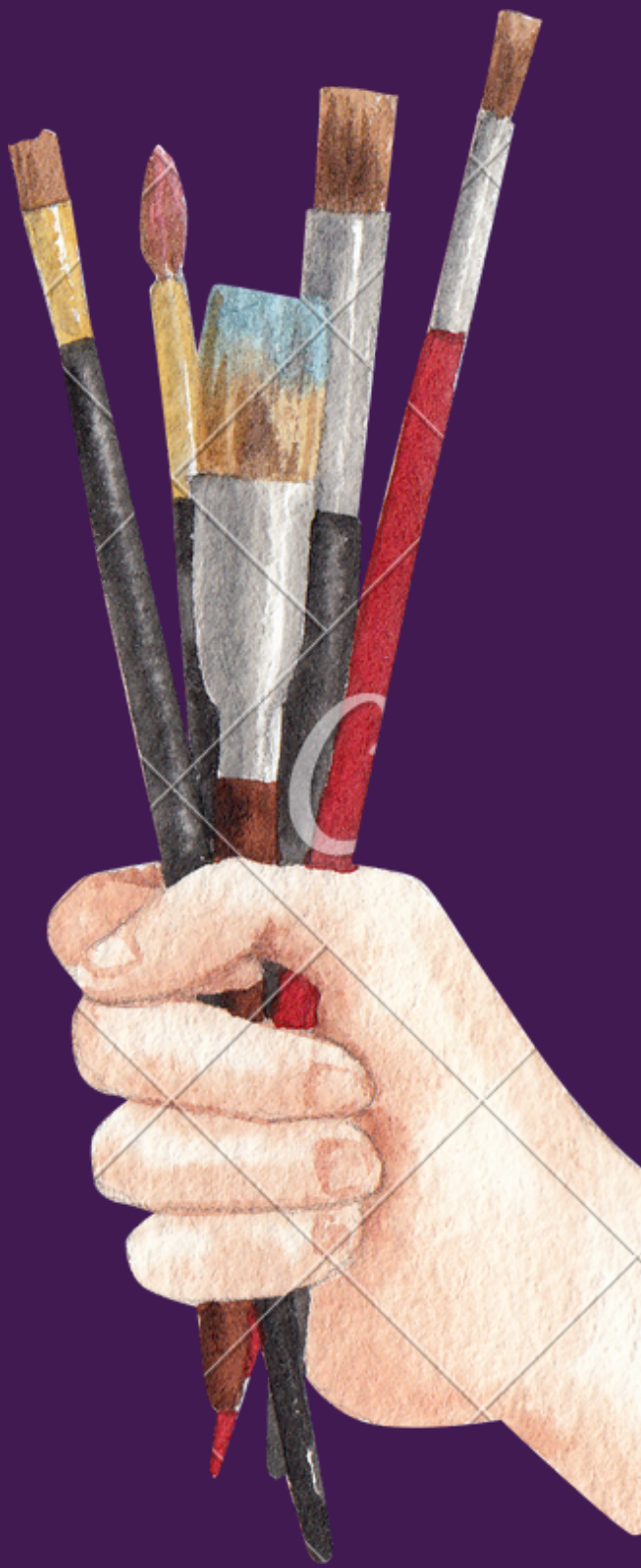
Creative Corner



Insperia

CH. MANOJ KUMAR ACHARY
21N31A6636
(CSE-AIML-A)

CH. MANOJ KUMAR ACHARY
21N31A6636
(CSE-AIML-A)

UPCOMING FESTS

Insperia

INTELLISPURT 2k23

INTELLISPURT is a tech fest that is set to take place for the very first time for our department on the 27th and 28th of January 2023. This event is a platform for tech enthusiasts to showcase their skills and compete against some of the brightest minds in the industry. The fest will feature a wide range of events, each with outstanding prizes and certificates to be won.

One of the highlights of the fest is our hackathon, which is a competition that gives participants the opportunity to showcase their skills in coding, problem-solving and creativity. The hackathon is open to all students and professionals who are passionate about technology and want to put their skills to the test. The top performers in the hackathon will be recognized with prizes and recognition, making it a great way to showcase your talents and potentially make some new friends.

Another exciting event at INTELLISPURT is our flash mob event. This event brings together a group of people to perform a coordinated dance routine in a public place. The flash mob event is a great way to learn new skills, try new things and explore different fields. It is also a fun and engaging way to get involved in the tech community and meet new people.

In addition to these events, there will be a variety of other activities and competitions taking place during the fest. These may include workshops, seminars, and keynote speeches by industry experts. These events will provide attendees with valuable insights into the latest trends and technologies in the field of technology.

The poster for our event is also given and we hope that the event is a success. We believe that INTELLISPURT will be a great opportunity for students and professionals to come together and share their passion for technology. We hope that everyone who attends the fest will have a great time and will leave feeling inspired and motivated to continue learning and exploring the world of technology.

In conclusion, INTELLISPURT is a tech fest that provides a platform for tech enthusiasts to showcase their skills and compete against some of the brightest minds in the industry. With a wide range of events, outstanding prizes and certificates to be won, and the opportunity to meet new people and learn new skills, we believe that this fest will be a huge success. We hope that you will join us in celebrating technology and innovation at INTELLISPURT.

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MALLA REDDY COLLEGE OF ENGINEERING & TECHNOLOGY

MRCET CAMPUS

(AUTONOMOUS INSTITUTION - UGC, GOVT. OF INDIA)

DEPARTMENT OF COMPUTATIONAL INTELLEGENCE

PRESENTS

INTELLISPURT

-2K23-

TECHNICAL:-
- PAPER PRESENTATION
- HACKATHON
- DEBATE
- POSTER PRESENTATION
- FASTEST FINGER FIRST

NON-TECHNICAL:-
- STANDUP COMEDY
- INSTRUMENTAL MUSIC
- MEMENTO
- BEST BUDDY

FACULTY COORDINATORS:-
- Mr.Chandrasekhar Reddy (9948556888)
- Mr.A.Saleem (7660000933)

STUDENT COORDINATORS:-
- Muskaan Fatima (7396858606)
- Mr.P.Lokesh (7675913681)

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