

VNR VIGNANA JYOTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY



DIGITAL DYNAMOS

FUELING THE FUTURE WITH AIML & IoT

NEWSLETTER-2023





ABOUT VNRVJIET

VNR Vignana Jyothi Institute of Engineering and Technology (VNRVJIET) is an autonomous institution dedicated to deepening knowledge and shaping the future. Established in 1995, it's a testament to the Vignana Jyothi Society's commitment to quality education. Located on a 7.33-hectare campus in Hyderabad,

VNRVJIET is known for its strong foundations, commitment to excellence, and comprehensive student development. It offers various programs, including B.Tech, M.Tech, and Polytechnic courses, making it one of the top engineering colleges in the region.

ABOUT DEPARTMENT

At the core of this department, lies Artificial Intelligence (AI), the driving force behind groundbreaking breakthroughs in various fields. The department's relentless pursuit of AI excellence unlocks the potential to unravel complex problems and improve the efficiencies of the students to meet the industry needs. The department's expertise in machine learning drives the development of robust and adaptable models, empowering the students to unlock the untapped potential from various data assets. In synergy with AI and machine learning, the department embraces the transformative potential of the Internet of Things (IoT), which interconnects a myriad of devices, sensors, and systems. By seamlessly integrating the physical and digital worlds, IoT creates an intricate network of intelligent endpoints that generate a vast ocean of data. The department guides the students to harness the data generated through various devices, sensors and also work on real time datasets to unlock the new possibilities facilitating intelligent decision-making. The students are encouraged to work on real-time monitoring projects across diverse domains.

ABOUT KRITHOMEDH

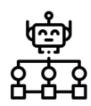
KRITHOMEDH was formed in 2022 by few AIML & IoT Enthusiasts .This Student community raises awareness in the field of AI, ML and IOT through hands on Workshops ,hackathons and other exciting events.This club was inaugurated by chief guest Mr.Sangameswar Reddy garu and department Faculty.



VISION

To emerge as an epicenter having transformative impact in the education and research of Artificial Intelligence & Machine Learning and Internet of Things with an ecosystem that contributes to the society through innovativeness and creativeness.

Digital Dynamos is launched by CSE-AIML and IoT department of VNRVJIET. It serves as an annual compendium, encompassing a comprehensive details of technical updates and valuable insights for the benefit of its members. Within its pages, one can find an exhaustive account of the activities conducted throughout the academic year, accompanied by insightful articles contributed by the students themselves.









Mission 1: To Impart innovative teaching and learning methodologies to generate knowledge through the state-of-the-art concepts and technologies in AI-ML and IoT with personal and professional responsibilities and commitment to lifelong learning with societal aspirations

Mission 2: To produce successful Computer Science and Engineering graduates with a specialization in Al-ML and IoT.

Mission 3: To establish centers of excellence in leading areas of AI-ML and IoT in collaboration with industry to uplift innovative research and development.

MISSION

Department of CSE- AIML & IoT strives to create an ecosystem that not only excels in education and research but also actively contributes to the society through innovation and creativity. The primary goal is to pursuit excellence in education and research by creating solutions that address global challenges. The faculty members within the department are highly skilled and well-versed in their respective fields, acting as valuable resources in seminars, faculty development programs, conferences and delivering invited talks. With certifications in Artificial Intelligence and Machine Learning from renowned institutions such as IIIT Hyderabad, they bring a wealth of expertise to the table. By staying up to date on the latest trends and developments, they ensure that their teaching methodologies and curriculum remain relevant and aligned with industry standards. The faculty's commitment to continuous learning and professional development enables them to provide the students with valuable exposure to real-world scenarios and industry best practices, bridging the gap between academia and industry.

In summary, our department is driven by a motto that prioritizes experiential learning through hands-on training, course-based projects, interdisciplinary projects, research projects and summer internships. By integrating experiential learning into our curriculum, students gain valuable practical skills that complement their theoretical knowledge. The interdisciplinary environment fosters an exchange of ideas, promotes collaboration, and nurtures a culture of continuous learning, ensuring that the department remains at the forefront of global AI and IoT advancements.

MESSAGES

Dr. C D Naidu (PRINCIPAL)

At VNRVJIET, our educational philosophy centers around the journey of "Presencing," fostering a deep connection to knowledge and a commitment to shaping the future. With unwavering dedication to quality, integrity, and innovation, we've established a solid foundation that continues to thrive.

Our commitment to excellence and global standards is at the core of our mission. At VNRVJIET, we are dedicated to empowering our students to excel and make a positive impact.

I'm thrilled to highlight the exceptional journey of our Department of Computer Science and Engineering specializing in Artificial Intelligence, Machine Learning, and the Internet of Things (CSE AIML & IoT). Our unwavering commitment to innovation, research, and excellence has positioned us as a beacon of technological advancement. Our talented faculty, dedicated students, and relentless pursuit of knowledge are propelling us into the future.

As the principal, I want to commend your achievements and contributions to our college's reputation and the global AIML & IoT community. Our collective efforts are shaping a brighter tomorrow, embracing the possibilities presented by Mezzanine Technologies. I am

confident that together, we will continue to push boundaries,

inspire, and lead the way in this dynamic field. It's

a pleasure to launch the newsletter

"Digital Dynamos."

Dr. B Chennakesava Rao (Director)

At VNRVJIET, our mission is to prepare socially responsible engineers, managers, and entrepreneurs, equipping them for the future through innovative projects and modern pedagogy. Quality, integrity, and an unwavering commitment to continuous improvement drive our vision, reflecting our dedication to excellence in education and research.

The Department of AIML & IoT remain steadfast as a cornerstone of cutting-edge education and research at our college. Our devoted team of faculty and staff is resolute in fostering innovation and excellence in Artificial Intelligence, Machine Learning, and the Internet of Things. Our students, the driving force behind our success, showcase remarkable talent and passion.



Together, we embrace the ever-evolving technology landscape, pushing boundaries and nurturing the next generation of experts. As the Director, I take immense pride in this department's achievements and eagerly anticipate our continued growth, innovation, and global impact. The launch of the "Digital Dynamos" newsletter is a significant moment for us, and we look forward to its continued role in inspiring and informing countless students about our department's remarkable achievements and legacy

Dr. N Sandhya(Professor, H.O.D of AIML & IoT)

At the core of our department is Artificial Intelligence, a driving force behind groundbreaking advancements in various fields. Our unwavering commitment to Al excellence empowers our students to tackle complex problems and meet industry demands. We specialize in machine learning, developing robust models from diverse data sources.

Embracing the transformative potential of the Internet of Things, we interconnect devices and sensors, creating an intelligent network of endpoints that generates vast data streams. Our students engage in real-time monitoring projects across diverse domains.

Our mission is crystal clear: to be a hub of excellence in AI, Machine Learning, and IoT education and research. We offer innovative teaching, produce successful graduates, and establish centers of excellence through industry collaboration. Our dedicated faculty, certified by renowned institutions, ensures our teaching remains relevant and industry-aligned. We prioritize experiential learning, bridging the gap between academia and industry through hands-on training, research projects, and internships.

We are a department driven by innovation, creativity, and an unwavering commitment to excellence. Join us in shaping the future of AI, Machine Learning, and IoT. Together, we will leave a lasting impact on the world. The launch of the "Digital Dynamos" newsletter is a significant moment for us, and we eagerly anticipate its ongoing role in inspiring and informing countless students about our department's remarkable achievements and legacy.



Dr. A Kousar Nikhath (Faculty Co-ordinator)

As the Faculty Coordinator, I am immensely proud to be a part of the Department of CSE AIML & IoT at VNRVJIET and our collaboration with the KRITHOMEDH club. We are a vibrant hub for cutting-edge technology and innovation, and our dedicated faculty members are deeply immersed in the realms of Artificial Intelligence, Machine Learning, and the Internet of Things.



Our primary focus is on inspiring and empowering our students through experiential learning, interdisciplinary projects, and strategic industry partnerships. We aim to nurture a spirit of exploration and technical excellence, and it's an exhibitant journey that we are thrilled to share with our dedicated students and faculty

The launch of the "Digital Dynamos" newsletter is a significant moment for us. We look forward to its continued role in inspiring and informing countless students about our department's remarkable achievements and legacy. Thank you for being a part of this exciting endeavor.

Ms. K Naga Durga Saile (Faculty Co-ordinator)

The Department of CSE AIML & IoT at VNRVJIET is a thriving center of innovation and learning. We take great pride in guiding our exceptional students through the ever-evolving world of Mezzanine Technologies. Committed to cutting-edge research, we continuously explore new horizons and possibilities.

Our students, who are the heartbeat of the department, consistently impress us with their enthusiasm and unwavering dedication. Together, we are shaping the future of technology and making meaningful contributions on a global scale.

As faculty members, we are excited to be part of this transformative journey and eagerly anticipate achieving many more milestones in our department. The launch of the "Digital Dynamos" newsletter is a significant moment for us, and we look forward to its ongoing role in inspiring and informing countless students about our department's remarkable achievements and legacy.

FACULTY



Dr. N. Sandhya

Dr. Y. Sagar

Dr. A Kousar Nikhath

Dr. A. Harshwardhan

Dr. G. Nagaraju

Dr. Sitanath Biswas

Dr. Narisetty Nirmalajyothi

Mrs. Sayeedakhanum Pathan

Mr. B Venkatesh Reddy

Mr. K. Kishan Babu

Ms. T. Jyothna Rani

Mr. Bhupesh Deka

Mr. Ch. Vijayakumar

Ms. Preethy Singh

Ms. S. Mamatha

Ms. K. Naga Durga Saile

Mr. Kakumanu Sreenivasara

Ms. Gadde Mamatha

INSIGHTS



Ms. Jajala Nikitha

Mr. Madasu Gnanavardhan

Mr. Shaik Mabasha

Mr. A. Srinivasa Rao

Ms. Plabindela Swetha

Mr. M Ajay Dilpi Kumar

Ms. Archana kalidindi

Venati Sudhakar

Ms. Jupalli Pushpa Kumari

Ms. Yavanamandha Prasanthi

Etikala Gurumohan Rao

Sajja Praveen Kumar

Birru Sandhya

Venna Navya Sree

Bollampalli Pravalika

Sunkam Navya



The Department of AIML and lot came alive with vibrant celebrations on September 7, 2023, as they joyfully commemorated Sri Krishna Janmastami in the warm and welcoming ambiance of B-002. The event was honored by the presence of a distinguished guest, Dr. Yarlagadda Padma Sai, the esteemed Dean of Students Progression.

SRI KRISHNA JANMASTAMI

The gathering was a testament to the spirit of unity and diversity, with the heads and faculty members from various departments converging to partake in the festivities, making it a memorable day filled with shared joy and cultural richness.





We felicitated our IoT students as they embark on their new journey from classrooms to careers. Their achievements are a testament to their unwavering commitment to excellence, serving as an inspiration to all aspiring professionals.

FELICITATION OF IOT AND AIML STUDENTS

We congratulated our AIML students as they begin their new journey from the classroom to the workplace. Their accomplishments are evidence of their unshakable dedication to greatness and serve as an example to all aspiring professionals.





MICROTEACHING

Microteaching, a crucial component of teacher training, involves short, focused teaching sessions that allow educators to refine their instructional techniques, and they graciously shared their valuable insights and received constructive feedback.

The department faculty has successfully completed Microteaching and Induction, marking a significant milestone in their professional development.



In the 2022-2023 Academic year, the dedicated faculty members of the CSE-AIML & IoT department, Dr. A. Kousar Nikhath and Dr. G. Nagaraju, collaborated with VRS School, contributed significantly to our department and generating a revenue of 2.5 lakhs.

FUNDS RAISED

Their remarkable efforts exemplify the positive impact of academic partnerships on both education and financial sustainability.





Dr.A.Kousar Nikhath acted as Resource Person for a Webinar on the topic "Emerging Trends and Employability Skills in Artificial Intelligence" on 31.01.2023.

Mr. Kishan Babu Assistant Professor, Dr. N. Sandhya Professor, Dr. Kousar Nikhath Associate Professor, Dr. Sithanath Biswas Associate Professor, Dr. Y. Sagar Associate Professor, the faculty of the department acted as reviewers for various high indexed Scopus and SCI journals

Dr. N. Sandhya Professor & Head Department of CSE-AIML & IoT has Delivered a section on data in preprocessing in UGC Sponsored two-week refresher program on "Machine Learning and Data science" at JNTU, Hyderabad on 19-12-2022

Ms. Sure Mamatha got admission to pursue Ph.D in NIT Warangal in 2023 August.

Dr. N. Sandhya Professor & Head Department of CSE-AIML & IoT as Co-PI submitted ER&IPR Proposal Project, Proposal titled "Design and Development of LASER Open Path (LOP) System for Measurement and Characterization of Atmospheric Turbulence Over Horizontal path of 5km" on 20-12-2022

Dr. A. Harshavardhan was awarded best Faculty award in 2022 by Malla Reddy Institute of Technology

Dr. A. Kousar Nikhath was awarded Faculty Excellence award in 2022 by Ed ImmiGo.

Dr. G. Nagaraju Assistant. Professor CSE-AIML &IoT, was invites as a Guest Speaker on the topic "Search Strategies in AI" at IARE ON 11.08.2022



Dr. N. Sandhya Professor &Head Department of CSE-AIML & IoT Chaired the technical session on" Mezzanine Technologies in the International Conference on Recent Trends in Microelectronics, Automation, Computing and Communication Systems "on 28th December, 2022.

Dr A. Harshvardhan Sr. Assistant Professor Department of CSE-AIML &IoT received appreciation for paper published "Multilayer Stacked Probabilistic Belief Network-Based Brain Tumor Segmentation and Classification", received appreciation from Dr. Carmina E. Dixon D.Sc. in Computer Vision Managing Editor Department of Computer Science, Institute of Engineering and Technology, global Journals on 02-01-2023.

Dr Y. Sagar Associate Professor CSE-AIML & IoT, was invited as a guest speaker on the topic " Mechanism for Quality Research Paper Publication" at Department of EIE VNRVJIET on 23.08.22 Dr G. Naga Raju Assistant Professor, was invited as guest speaker on the topic" Formal Languages and Automata Theory" at HITAM on 7.11.22

Dr. N. Sandhya Professor &Head Department of CSE-AIML & IoT acted as resource Person for an FDP on "Unleashing Emerging Research Trends and Advancements in Computer Science" at VIT-AP University on 13.07.2022

Mr. Bhupesh Deka Assistant Professor was invited as a resource person for a workshop on DBMS at KG Reddy College of Engineering on 09.02.23

Dr. N. Sandhya Professor &Head Department of CSE-AIML & IoT acted as Guest Speaker for "Latest Trends in Machine Learning for Signal Processing Applications" from 10th to 12th August 2022.



| SI NO. | Name Of Inventor | Title of Invention | Patent File Number | Date Of Filing | Status |
|-----------|---|---|-----------------------|-------------------|----------------------------|
| 1 | Miss Shubhashree Sahoo, Dr. Sitanath Biswas, Dr. N. Sandhya, Mr. B.Venkatesh Reddy, Ms. Sayeedakhanum Pathan, Mr. Sahith Battula | AI BASED DEVICE TO PREVENT EARLY CERVICAL SPONDYLOSIS AMONG COMPUTER USERS | 202341018801A | 31-03-2023 | Applied for Examination |
| 2 | Dr. Sitanath Biswas, Dr. N.Sandhya, Dr. Gujjeti Nagraju, Mr. B.Venkatesh, Ms Preety Singh | OCR AND DEEP LEARNING-BASED PLAGIARISM DETECTION DEVICE FOR TELUGU LANGUAGE | 202341024498 | 31-03-23 | Applied for Examination |
| 3 | Dr. Sagar Yeruva, Dr. Krishna Prasad, Dr. T. Sunil Kumar, Dr. Deepak Sukheja, Mr. P. Venkateswara Rao, Dr. Brahmananda Reddy, Dr. Kousar Nikhath. A, Dr. D. N. Vasundhara, Mr. G. S. Ramesh, Mrs. V. Baby, Mr. Ankit Raj Gaddam | DESIGN & DEVELOPMENT OF A SMART SYSTEM TO ANALYZE THE IMPACT OF COVID-19 ON RESPIRATORY SYSTEM USING MACHINE LEARNING | 202141017531A | 23-04-2021 | Published |
| 4 | Dr. K. Sudha Rani, Dr. R. Manjula Sri Dr. T. Nireekshana, Dr. Shuchi Tiwari, K.Mani Kumari, Dr. N. Sandhya, Dr. N. Managathayaru K. Vijay Chandra, Naregalkar Akshay, Dr. A. Giriprasad | MOTORIZED ANKLE FOOT DRIVEN CUSTOMIZED PROSTHETIC LEG WITH EXOSKELETON | 2.02141E+11 | 04-8-2021 | Published |
| 5 | Dr. M. Raja Sekar, Dr.N.Sandhya, Dr. P. Neelakantan, Dr. P. V. Siva Kumar, Dr. G. Suresh Reddy, Dr. P. Subash, Mr.M. Gangappa | TPM-CROWD FUNDING: TRUSTED CROWD FUNDING PLATFORM USING A SMART CONTRACT AND AI- BASED MANAGEMENT SYSTEM | 202141052903 | 17-11-2021 | Published |



PATENTS

| SI NO. | Name Of Inventor | Title of Invention | Patent File Number | Date Of Filing | Status |
|-----------|---|--|-----------------------|-------------------|-----------|
| 6 | Dr.Y.Sagar, Dr. Krishna Prasad, Dr. T. Sunil Kumar, Dr. Deepak Sukheja, Mr. P. Venkateswara Rao. Dr. Brahmananda Reddy, Dr. Kousar Nikhath.A, D. N. Vasundhara Mr. G. S. Ramesh, Mrs. V. Baby, Mr. Ankit Raj Gaddam | DESIGN & DEVELOPMENT OF A SMART SYSTEM TO ANALYZE THE IMPACT OF COVID-19 ON RESPIRATORY SYSTEM USING MACHINE LEARNING | 202141017531A | 23-04-2021 | Published |
| 7 | V. Baby, Dr. S. Nagini, K. Jhansi Laksmi Bai, Dr. Sagar Yeruva, G.Yashwanth, B. Janaki Ram, A. Rikhila, Dr. D.N. Vasundhara, N.V. Sailaja, A. Madhavi | VIRTUAL MOM- RESPONSIVE BABY MONITORING TOY | 202141020965A | 11-06-2021 | Published |
| 8 | Dr. Deepak Sukheja, Dr. Umesh Kumar Singh, Dr. T. Sunil Kumar, Dr. P. V. Siva kumar, Dr. Sagar Yeruva, Mrs. Priya Bhatnagar, Mr. N. Sandeep Chaitanya, Dr.Santosh Kumar Choudhary, Dr. Prateek Sharma, Dr. Lokesh Kumar Laddhani, Dr.Bhupendra Kumar Pandya | GPS AND ENCRYPTION BASED MULTI-CHECK AUTHENTICATION PROCESSFOR PREVENTING FRAUD TRANSACTION | 202141044509A | 08-10-2021 | Published |
| 9 | Dr.N.Sandhya, Dr. M. Raja Sekar, Dr. Ashish Kumar Chakraverti (Hod), Vivek Kumar, P. Ila Chandana Kumari, Prof. Dr. Yashpal Singh | COMPUTER CACHE MEMORY PERFORMANCE ENHANCE USING NEURAL NETWORKS AND MACHINE LEARNING | 202041001789 | 17-01-2020 | Published |
| 10 | S.Kranthi Kumar, Dr. B.V. Kiranmayee, Dr. S.Nagini, Dr. Chalumuru Suresh, V.Baby K. Jhansi LakshmiBai, Sravani Nalluri, Dr.A.Kousar Nikhath, P.Radhika Motupalli, Ravikanth, Venkata Naga Raju Thatha | CRITICAL PATIENTS M MONITORING DEVICE: CRITICAL PATIENTSâ€TM MONITORING USING MACHINE LEARNING FEATURE SELECTION TECHNIQUE | 202041023578A | 12-06-2020 | Published |
| 11 | Dr. Deepak Sukheja, Dr. G. Ramesh Chandra, Dr. N. Sandhya, Dr. B. V. Kiranmayee, D. Ramesh Reddy | SHELTERED DRIVING SYSTEM FOR AUTOMOTIVE VEHICLES FOR STREAMLINED OPERATION ON ROADS WITH ADHERENCE TO EXTANT RULES AND REGULATIONS | 202041045360 | 13-11-2020 | Published |



KRITHOMEDH





KRITHOMEDH, EMBARKED ON ITS JOURNEY WITH A GRAND INAUGURATION ON DECEMBER 3, 2022, HELD AT THE APJ AUDITORIUM IN D-BLOCK. THE EVENT WAS GRACED BY THE PRESENCE OF MR. SANGAMESWAR REDDY, A SENIOR ENGINEERING LEADER AT AMAZON, WHO NOT ONLY UNVEILED THE CLUB'S TITLE BUT ALSO SHARED HIS INSIGHTS WITH THE ENTHRALLED AUDIENCE. DR. N. SANDHYA, THE HEAD OF THE DEPARTMENT OF AIML & IOT, AND OTHER ESTEEMED FACULTY MEMBERS ALSO ADDRESSED THE GATHERING, SETTING THE TONE FOR WHAT PROMISES TO BE AN EXCITING VENTURE. THE CLUB LAID OUT A COMPREHENSIVE AGENDA, INCLUDING VARIOUS ENGAGING ACTIVITIES AND OBJECTIVES DESIGNED TO FOSTER AN IN-DEPTH UNDERSTANDING OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING, KEEP STUDENTS INFORMED ABOUT EMERGING TECHNOLOGIES, AND GUIDE THEM IN THEIR TECHNOLOGICAL EXPLORATION.



ORIENTATION











THE TEAM EMPOWERED CLUB MEMBERS TO INTERACT WITH THE AUDIENCE, CLARIFY CLUB OBJECTIVES, AND HIGHLIGHT THE CRUCIAL ROLES OF KRITHOMEDH'S WINGS — INCLUDING DOCUMENTATION, DESIGN, TECHNICAL EXPERTISE, LOGISTICS, PUBLIC RELATIONS, AND SOCIAL MEDIA MANAGEMENT. IT AIMS TO FOSTER LEADERSHIP, PASSIONATE COMMUNICATION, AND AUDIENCE INVOLVEMENT TO PROMOTE THE CLUB EFFECTIVELY.

EVENTS

LOGO CONTEST

The Krithomedh Community held a logo contest for students, seeking a design that embodies their values of community collaboration and continuous learning. The chosen logo prominently features Neural Networks, symbolizing their commitment to AI and Machine Learning. The fact that this competition was open to all participants and valued each one's opinion made it truly remarkable. The best design was honored with a certificate reinforcing the strong sense of unity and shared purpose that defines the Krithomedh Community.



CODING CONTEST

Krithomedh, the student community of AIML & IoT at VNRVJIET, organized an online coding contest via the HackerRank platform, exclusively designed for 2nd and 1st-year AIML and IoT students. A total of 426 students registered for the event, with 253 actively participating. The competition featured a set of five challenging questions to be solved within a strict 2-hour time limit, allowing the use of any programming language.

IDEATHON

For first-year AIML and IoT students of batch 2026, the AIML student community arranged an event named IDEATHON in February 2023. Students from five different domains—Education, Agriculture, Healthcare, Disaster Management, and Open Innovation—were able to present their creative solutions to issue statements during the event. There were two rounds of the competition.







Seven of the sixteen teams that registered for the first round on February 17, 2023, advanced to the second round which took place on February 25, 2023, and each team was given a mentor. Vipaniv, Tech Work, Infinitely Innovative, Akatsuki, Vision, Primero, and Wolverines were the finalists. Certificates and cash awards were given to the winners.

EVERIS KAVACH

This national-level hackathon, conducted in collaboration with the Institute Innovation Cell and IEEE CS VNRVJIET, holds a critical mission: to seek out innovative ideas and technological solutions geared towards tackling the pressing cyber security and cybercrime challenges that our intelligence agencies confront in the 21st century.



It stands as a unique platform for students to channel their creativity and problem-solving skills, beginning with the submission of innovative ideas in the initial round. In the subsequent phase, chosen students participate in a rigorous hackathon, where their solutions are put to the test. The standout performers were quite interested in exploring various fields of technology.

EVENTS

LET'S RESUME

An exciting profile building session aimed at empowering students to craft an impressive resume and a personalized profile that will pave the way for a prosperous career in tech industry. The innovative session promises to equip with the skills and knowledge necessary to embark on a successful journey.



LET'S GIT CONNECTED

An exciting profile building session aimed at empowering students to craft an impressive resume and a personalized profile that will pave the way for a prosperous career in tech industry. The innovative session promises to equip with the skills and knowledge necessary to embark on a successful journey.

EVENTS

AI AND DEEP LEARNING

We had a guest Lecture on AI and Deep Learning featuring renowned speakers.

Firstly, Professor KC Santosh from the University of South Dakota, USA. The lecture focused on the idea that AI is not just for computer scientists, providing valuable insights for future AI studies.



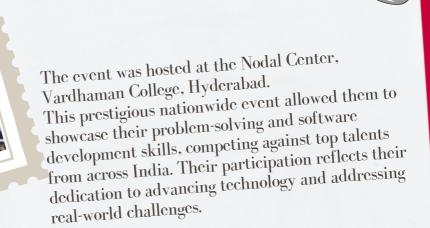


Secondly, Dr. Ravinder Hegadi from the Central University of Karnataka . it unraveled the complexities of Deep Learning, elucidating its foundational concepts and its transformative role in today's global landscape. This lecture broadened horizons, highlighting the profound influence of AI and Deep Learning. We extend our gratitude to these esteemed speakers for their enlightening insights.



Team Matsyastra, consisting of students from the CSE-AIML had the privilege of being mentored by Dr. Y. Sagar, an Associate Professor in the CSE department with expertise in AIML and Internet of Things (IoT). The team embarked on a remarkable journey by participating in the Grand Finale of the Smart India Hackathon-Software Edition, which took place from August 25th to August 26th, 2022.





SOCISTAL IMPACT * PROJECTS



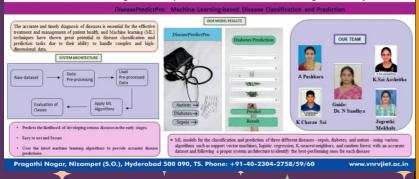
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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (AIML & IOT)

Creating Societal Impact as Students of CSE AIML Through B.Tech Project



Machine learning (ML) techniques have shown great potential in disease classification and prediction tasks due to their ability to handle complex and high-dimensional data. DiseasePredictPro is a machine learning-based disease classification and prediction tool that predicts the likelihood of developing serious diseases in the early stages. The model uses various algorithms like support vector machines, logistic regression, K-nearest neighbors, and random forest.

This SignSense is an advanced real-time translation system that uses deep learning and computer vision to bridge communication barriers between sign language users and non-sign language speakers. It detects and translates sign language gestures into actionable text, fostering inclusive interaction. Sign Sense uses LSTM-based architecture to accurately recognize and interpret a wide range of sign language gestures, converting them into actionable text. This application empowers individuals with hearing impairments by providing a means to effectively communicate with non-sign language users in various contexts.

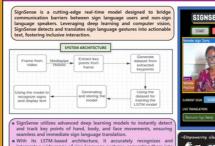


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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING (AIML & IOT)
Creating Societal Impact as Students of CSE AIML Through B.Tech Project

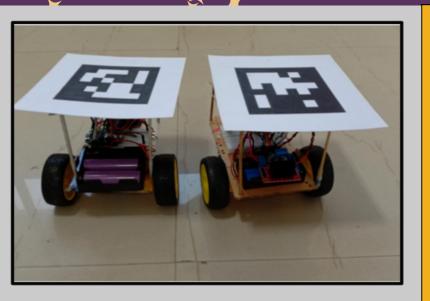
SignSense: Advanced Deep Learning Based Sign Language Real-Time Translation System To Assist Mute Community



This application empowers individuals with hearing impairments by providing a means to effectively communicate with non-sign language users in various contexts, such as education, healthcare, and everyday interactions.

OUR TEAM

SOCIETAL IMPACT PROJECTS



The Smart Warehouse Management System is powered by Automated Guided Vehicles (AGVs) and robust computer vision. It adeptly controls and monitors multiple AGVs in public and private warehouses, reducing human labor. AGVs are guided via a central monitoring system utilizing cameras and April tags for precise positioning and orientation. The central system employs advanced algorithms, including probabilistic roadmaps, for efficient navigation. This versatile solution is compatible with modern Warehouse Management Systems and security alerts. It presents a cost-effective alternative to human labor. making it suitable for various warehouse sizes and industries globally, enhancing efficiency, reducing costs, and offering extensive oversight of warehouse operations.

The "Smart Surveillance Using Spherical Robot" project introduces a versatile spherical robot for land and underwater surveillance. It has unique mobility, balance through a gyroscope, and wireless communication. This smart surveillance tool can operate from a distance of up to 500 meters and replace humans in challenging environments. It's also adaptable for industrial tasks.



NPTEL





NPTEL TOPPERS FROM AIML

NPTEL (National Programme on Technology Enhanced Learning) is an initiative by the Indian government to provide highquality online education and learning resources. They are the NPTEL Toppers from AIML Final year

NPTEL TOPPERS FROM IOT

Topper in NPTEL from IoT in cloud computing. They had set a high benchmark for their peers with their exceptional performance.



INTERNSHIP

| sno | ROLL NUMBER | STUDENT NAME | SECTION | CRITERIA | STIPEND | YEAR |
|-----|----------------|-----------------|------------------|--|---------|----------------|
| 1 | 20071A6604 | Bhavana A | III-B.TECH- AIML | JP-MORGAN | 70000 | 2022 |
| 2 | 20071A6611 | Thanvitha D | III-B.TECH- AIML | JP-MORGAN | 70000 | 2022 |
| 3 | 20071A6614 | G SaiTeja | III-B.TECH- AIML | JP-MORGAN | 70000 | 2022 |
| 4 | 20071A6618 | Satwik K | III-B.TECH- AIML | JP-MORGAN | 70000 | 2022 |
| 5 | 20071A6630 | M Krishna Priya | III-B.TECH- AIML | JP-MORGAN | 70000 | 2022 |
| 6 | 20071A6630 | M Krishna Priya | III-B.TECH- AIML | MICROSOFT | 125000 | 2022 |
| 7 | 20071A6647 | Haripriya S | III-B.TECH- AIML | JP-MORGAN | 70000 | 2022 |
| 8 | 20071A6650 | Shaik Sana S | III-B.TECH- AIML | JP-MORGAN | 70000 | 2022 |
| 9 | 20071A6901 | G Aishwarya | III-B.TECH- IOT | JP-MORGAN | 70000 | 2022 |
| 10 | 20071A6915 | D Sreeniketh | III-B.TECH- IOT | JP-MORGAN | 70000 | 2022 |
| 11 | 20071A6921 | Spandana J | III-B.TECH- IOT | FLIPKART | 100000 | 2022 & 2023 |
| 12 | 20071A6923 | K Srichandana | III-B.TECH- IOT | NMICPS-TIHAN-IIT- HYDERABAD(INTERNSHIP) | 5000 | 2023 |
| 13 | 20071A6932 | K Rohan | III-B.TECH- IOT | EMERTXE(INTERNSHIP) | UNPAID | 2023 |
| 14 | 20071A6932 | K Rohan | III-B.TECH- IOT | JP-MORGAN | 70000 | 2023 |
| 15 | 20071A6939 | M Kavya | III-B.TECH- IOT | JP-MORGAN | 70000 | 2023 |
| 16 | 20071A6948 | K Vasista | III-B.TECH- IOT | NMICPS-TIHAN-IIT- HYDERABAD(INTERNSHIP) | 5000 | 2023 |
| 17 | 20071A6955 | T Sahithi | III-B.TECH- IOT | NMICPS-TIHAN-IIT- HYDERABAD(INTERNSHIP) | 5000 | 2023 |
| 18 | 20071A6956 | T sahithi | III-B.TECH- IOT | JP-MORGAN | 70000 | 2023 |
| 19 | 20071A6959 | Y Sathwik | III-B.TECH- IOT | JP-MORGAN | 70000 | 2023 |

INTERNSHIP

| SNO | ROLL NUMBER | STUDENT NAME | SECTION | CRITERIA | STIPEND | YEAR |
|-----|----------------|---------------------------------|--------------------------|-------------------------|---------|------|
| 1 | 21071A6605 | AYYALA SOMAYAJULA SAI | II- B.TECH- AIML-A | EMERTXE (INTERNSHIP) | UNPAID | 2023 |
| 2 | 21071A6667 | A HARSHINI REDDY | II.B.TECH- AIML | AMAZON | 35000 | 2023 |
| 3 | 21071A66D8 | C TEJASWI REDDY | II.B.TECH- AIML | AMAZON | 35000 | 2023 |
| 4 | 21071A66D1 | A PRAGNA | II.B.TECH- AIML | AMAZON | 35000 | 2023 |
| 5 | 21071A6956 | S RAMA SATYA SAI GAYATHRI | II- B.TECH- IOT | EMERTXE (INTERNSHIP) | UNPAID | 2023 |

PLACEMENTS





FIRST PLACEMENT

Congratulating Mr V.Madhu CSE-IoT for getting placed in Darwinbox. The first placement of the department. This achievement marks a significant milestone for the department, as it signifies our very first successful placement.Mr. Madhu's achievement showcases the high caliber of talent and education within our department, and we take immense pride in his success. We look forward to witnessing more of our students reach remarkable milestones in their careers and set new standards of excellence.

HIGHEST PACKAGE





M. Krishna Priya, a final year student-AIML recently accomplished a remarkable feat with an impressive starting package of 49 lakhs per annum. Following her successful summer internship with Microsoft, she secured a full-time position with the company, marking a significant milestone in her career. , Krishna Priya's achievement underscores her exceptional skills and the value of her education.



PLACEMENTS

















| s.no | ROLL NO | STUDENT NAME | BRANCH | PACKAGE | OFFERS |
|------|------------|--------------------------------------|--------|-----------------|------------------|
| 1 | 20071A6957 | VEMBADI MADHU | IOT | 16 LPA | DARWINBOX |
| 2 | 20071A6604 | ATHINA BHAVANA | AIML | 19.75LPA | JPMC |
| 3 | 20071A6611 | DATLA THANVITHA | AIML | 19.75LPA | JPMC |
| 4 | 20071A6618 | K SATWIK | AIML | 19.75LPA | JPMC |
| 5 | 20071A6647 | S HARIPRIYA | AIML | 19.75LPA | JPMC |
| 6 | 20071A6650 | SHAIK SANA SIDDIQA | AIML | 19.75LPA | JPMC |
| 7 | 20071A6657 | THOTAMALLA ABHIRAM | AIML | 19.75LPA | JPMC |
| 8 | 20071A6901 | AISHWARYA GRANDHI | loT | 19.75LPA | JPMC |
| 9 | 20071A6915 | DEVARINTI SREENIKETH REDDY | loT | 19.75LPA | JPMC |
| 10 | 20071A6932 | KURELLA ROHAN | loT | 19.75LPA | JPMC |
| 11 | 20071A6939 | MIRIYALA KAVYA NAGA DURGA LAKSHMI | loT | 19.75LPA | JPMC |
| 12 | 20071A6955 | TUMPUDI SRI SAHITHI | loT | 19.75LPA | JPMC |
| 13 | 20071A6959 | YAMSANI SATHWIK | loT | 19.75LPA | JPMC |
| 14 | 20071A6921 | JILLA SPANDANA | IoT | 32.5LPA | FLIPKART |
| 15 | 20071A6613 | G HEMANTH VARMA | AIML | 11.5LPA | CHUBB |
| 16 | 20071A6629 | MANCHALA HARIKESH | AIML | 11.5LPA&19.2LPA | CHUBB, ORACLE |
| 17 | 20071A6655 | TALLURI ANTHYUSH | AIML | 11.5LPA | CHUBB |
| 18 | 21075A6601 | KANDA MANASA | AIML | 11.5LPA | СНИВВ |
| 19 | 20071A6927 | KATTA SAI DEEPTHI | IoT | 11.5LPA | СНИВВ |
| 20 | 20071A6954 | SUFIAN SHAIK | loT | 11.5LPA | СНИВВ |



Student Activity



Students attended INNOVATION DAY at IIT HYDERABAD







IoT students performance in street play as part of English Communication Course Based Project

AIML & IoT

BATCH-1





BATCH-2











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