



MANGALORE INSTITUTE OF TECHNOLOGY & ENGINEERING

(A Unit of Rajalaxmi Education Trust®, Mangalore)

Autonomous Institute affiliated to VTU, Belagavi, Approved by AICTE, New Delhi

Accredited by NAAC with A+ Grade & ISO 9001:2015 Certified Institution

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING

&

DEPARTMENT OF CSE(ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING)

ARTIFERA

A STUDENT ASSOCIATION
of
AIML & CSE(AIML)
Department



ANNUAL REPORT
Academic Year 2023-24



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BRANCH ENTRY

The much-anticipated branch entry event, inauguration of ARTIFERA activities 2023-24, took place on 3 Jan 2024 welcoming the newest members of the Artificial Intelligence and Machine Learning community. ARTIFERA, known for its vibrant mix of creativity and technology, marked the formal introduction of juniors into the branch, setting the stage for their journey in the world of AI and ML.

The event kicked off with a grand opening ceremony in the auditorium 3. The program began with an introductory speech by the senior students, who shared insights about the AI and ML branch, its culture, and the expectations for the new members. As the day unfolded, the juniors had the chance to explore their own creative ideas and share their perspectives on the field.

The juniors were warmly welcomed by their seniors, who shared valuable insights about the branch. These opening words gave the new members an understanding of the deep connection between creativity and technology that AI & ML foster.



Branch Entry Inauguration Ceremony at Auditorium 3 for welcoming students of Batch 2026

As the day progressed, the event shifted focus to interactive sessions that allowed the juniors to engage more personally with the content. These sessions were designed to give them the opportunity to explore their own creative ideas, reflect on their aspirations in the world of artificial intelligence, and share their unique perspectives on the future of this rapidly evolving field.

As the day concluded, the excitement and sense of belonging were clear in the faces of the juniors. The ARTIFERA Activities 2023-24 event was not just a ceremony, but a launchpad for the next generation of thinkers, creators, and innovators in the field of AI and ML. It provided a glimpse into the incredible opportunities, challenges, and experiences that awaited them for becoming future leaders in this transformative industry. The vibrant atmosphere and the sense of community left everyone with a shared sense of purpose, setting the stage for a remarkable academic year ahead.

TECHNICAL TALK

As part of the ARTIFERA Activities 2023-24, the event featured an engaging and insightful talk by Mr. Vinodh Singh, Senior Manager at Ernst and Young Global Limited, Bangalore. Drawing from his vast experience in the field of Artificial Intelligence and Machine Learning, Mr. Vinodh shared a deep dive into the real-world applications of these technologies, illustrating how AI and ML are driving transformation across various industries—from finance and healthcare to supply chain management and beyond.

Mr. Vinodh's talk was not only technical but also strategic, emphasizing how businesses are leveraging AI to solve complex problems, optimize operations, and create innovative solutions that were once thought impossible. He also spoke about the growing demand for AI professionals in the industry, highlighting the various career paths available to students in this rapidly evolving field.



Mr. Vinodh Singh's Technical talk to the students of AI & ML and CSE(AI & ML)

One of the key takeaways from Mr. Vinodh's talk was the importance of continuous learning and staying updated with the latest advancements in AI and ML. Mr. Vinodh also discussed how crucial it is for AI professionals to not only have strong technical expertise but also the ability to think critically, work collaboratively, and understand the broader ethical implications of their work.

The talk concluded with a powerful message about the role of AI professionals in shaping the future. Mr. Vinodh inspired the juniors to view their work as more than just coding or problem-solving, but as a way to positively impact society, drive change, and contribute to the development of ethical, responsible AI systems. His words left a lasting impression, motivating the juniors to pursue their academic and professional journeys in AI and ML with both passion and purpose.

GYAN DAAN 2.0



Books Distribution at Spoorthi Special School, Moodabidri as a part of Gyan Daan 2.0

In a heartening initiative led by Assistant Professor Mr. Amruth Ashok, under the guidance of the Head of the Department of AI and ML, Mr. Sunil Kumar S, Mangalore Institute of Technology and Engineering (MITE) embarked on a noble mission titled "Gyan Daan 2.0." This impactful initiative, which ran from 20th May to 11th June 2024, was far more than a mere book donation drive. It was a heartfelt effort to share the light of knowledge with those who needed it the most, and to bridge the gap for individuals who lacked access to vital educational resources.

The core objective of *Gyan Daan 2.0* was both simple and profound: to collect gently used books and redistribute them to those who had limited or no access to educational materials. The mission was rooted in the belief that knowledge is power, and that by sharing books, the community could empower individuals and help foster a brighter future for all. Many individuals contributed to the cause, donating books across various genres, including academic texts, novels, reference materials, and children's books.

The donated books found their way to Spoorthi Special School in Moodabidri, an institution dedicated to supporting children with special needs. The collaboration with Spoorthi Special School added a heartfelt dimension to the initiative, as it brought joy and educational opportunities to students who would benefit greatly from these resources. The donation of books was more than just a material contribution; it was a means to inspire learning, creativity, and curiosity in children who face unique challenges in their educational journey.

The involvement of both students and faculty in this initiative highlighted the collective spirit that MITE embodies—where learning is not confined to the classroom, but is shared freely with the wider community. *Gyan Daan 2.0* showcased the Institute's dedication to social responsibility and its commitment to fostering a culture of knowledge-sharing, compassion, and inclusivity.

As the event concluded, the Gyan Daan 2.0 initiative left behind not just a trail of donated books, but also a lasting message: that knowledge, when shared, has the power to transcend barriers and transform lives. The positive impact of this initiative will be felt for years to come, as it continues to inspire others to contribute to the cause of education and community development.

PYTHON CLUB

Under the dynamic leadership of Anubhav Gour, supported by senior members Anshad Asiz and Kiran Rao, the Python Club has blossomed into a vibrant hub of learning, innovation, and collaboration for junior students at the institute. Anubhav's dedication to guiding newcomers through the complexities of Python programming has been the driving force behind the club's success. With a clear vision of creating an inclusive and interactive environment for learning, he organized regular workshops and hands-on coding sessions aimed at building a strong foundation for beginners.

The heart of the Python Club's success lay in the hands-on, interactive nature of the weekly sessions, which were held every Saturday. Whether it was solving coding problems, building mini-projects, or participating in group challenges, students were encouraged to test their skills in a collaborative setting. This mentorship fostered a comfortable space for juniors to ask questions, troubleshoot their code, and learn from their mistakes.

The club's emphasis on problem-solving and real-world applications has not only helped students sharpen their coding abilities but also cultivated critical thinking, creativity, and a deeper understanding of programming concepts. Through project-based learning, students were able to experiment with different tools and libraries in Python, giving them a taste of what it's like to work on software development projects, data analysis, or automation tasks.



Python Club Tutorial Sessions conducted by the Seniors of AI & ML.

Furthermore, the collaborative atmosphere of the club created an ecosystem where juniors were able to learn from their peers. The Python Club's weekly workshops have also gone beyond just teaching Python syntax—they've inspired a culture of continuous improvement.

This consistent effort to build both technical and soft skills has left an indelible impact on the club's members, who now approach programming with greater confidence and enthusiasm. The Python Club, has not only played a pivotal role in enhancing the technical abilities of its members but has also fostered a community of learners committed to mutual growth and the spirit of collaboration. As the club continues to thrive, its legacy of empowering students with the skills and mindset required for success in the world of coding will undoubtedly leave a lasting mark on the future of its members.

INDUCTION PROGRAM

The peer learning sessions, organized under the guidance of the Placement Cell, proved to be an invaluable resource for juniors, offering them direct access to the wealth of knowledge and experience possessed by their seniors. These sessions were specifically designed to help students navigate the often-intimidating placement process, with a focus on both aptitude preparation and soft skills development.

The sessions covered a wide range of topics, from mastering aptitude problem-solving techniques to developing effective strategies for excelling in interviews and group discussions. Seniors introduced juniors to various approaches for tackling different types of aptitude questions, helping them to hone their analytical and logical reasoning skills.

The interactive nature of these peer learning sessions was a key element in their success. Rather than a one-way transmission of knowledge, the sessions encouraged juniors to engage actively. They were invited to ask questions, discuss difficult problems, and solve aptitude questions in real-time. This collaborative approach not only made the sessions more engaging but also helped juniors build confidence in their problem-solving abilities. Additionally, seniors guided them through mock tests and practice exercises, providing detailed feedback on areas of improvement and tips for further practice.



Peer Learning Sessions Conducted by the Seniors of AI & ML as a part of the Induction Program.

The Seniors created a safe and supportive environment for juniors to voice their concerns, clarify doubts, and gain practical advice, ensuring that they felt prepared and confident as they entered the competitive job market. The peer-to-peer mentoring model nurtured leadership qualities in seniors, who were given the responsibility of guiding and mentoring the next generation of students.

By combining technical training with soft skills development and a strong emphasis on peer-to-peer learning, the placement sessions helped students to perform at their best, setting them up for success in the placement process. Ultimately, the peer learning sessions, under the guidance of the Placement Cell, played a crucial role in empowering students to achieve their career goals with confidence and competence.

INDUSTRIAL VISIT



Final Year Students at Bolas Agro Private Limited as a part of Industrial Visit.

The B.Tech. final-year students from the Department of Artificial Intelligence and Machine Learning at Mangalore Institute of Technology and Engineering (MITE) had an enriching and insightful industrial visit to Bolas Agro Private Limited (BAPL) on February 14, 2024. The visit, led by Dr. Maryjo M. George, aimed to offer students a hands-on understanding of the real-world applications of artificial intelligence (AI) in the agriculture sector, with a specific focus on the innovative AI-driven processes used in cashew processing and sorting.

During the visit, students were introduced to the various AI technologies deployed at BAPL to enhance the efficiency and quality of cashew processing. These included automated sorting systems powered by computer vision and machine learning algorithms, which are designed to classify and grade cashew nuts based on size, color, and quality. The students were given the opportunity to interact with industry professionals at BAPL, who shared valuable insights on the challenges and benefits of implementing AI solutions in agriculture, and how these innovations contribute to sustainable farming practices.

The students also gained an understanding of the different stages involved in the cashew processing chain, from raw material procurement to final product packaging. They learned how AI-driven systems help monitor and control various parameters such as temperature, humidity, and sorting accuracy, ensuring a high-quality end product that meets industry standards.

The visit also highlighted the growing trend of AI adoption in agriculture, where machine learning algorithms and data analytics are being used to solve complex problems, improve operational efficiencies, and support decision-making processes. Students were encouraged to think about how AI could further revolutionize other sectors of agriculture.

Overall, the visit was an eye-opening experience for the students, providing them with practical exposure to the use of AI in a real-world industrial setting. It not only deepened their understanding of AI's potential in agriculture but also inspired them to explore future career paths that combine technology with sustainable agricultural practices.

FAREWELL EVENT

The Farewell Event for the Batch of 2024 in the AIML program was a heartwarming and memorable evening, celebrated on May 11, 2024. The event, held in the Auditorium 3, was an emotional blend of celebration, nostalgia, and camaraderie, as the graduating students bid farewell to their Bachelor's degree and prepared to embark on new professional journeys.

The program kicked off with a warm and welcoming address by the Head of the AIML Department, Mr. Sunil Kumar S, who set the tone for the evening. Mr. Sunil spoke about the transformative impact the AIML program had on the students, emphasizing how they had not only mastered the technical skills needed for a career in artificial intelligence and machine learning but had also developed the resilience and teamwork necessary to succeed in an ever-evolving world.

The emotional tone of the evening was beautifully complemented by the entertaining cultural performances presented by the junior students. These performances were a fitting tribute to the graduating Batch of 2024, showcasing the talent and creativity that thrives within the AIML community.



Informal Event for the Batch of 2024 students who bid Farewell to their Bachelor's Journey

Following the cultural segment, the atmosphere became more reflective with the screening of an emotional video montage. The video was a beautiful compilation of memories from the past few years, capturing moments of triumph, laughter, and friendship. The montage featured clips from events, study sessions, lab work, and college trips, alongside snippets of messages from friends and faculty members.

As the evening progressed, the graduates were presented with awards and certificates, recognizing their individual and collective achievements throughout the program. Special accolades were given to students who had excelled academically, contributed significantly to research projects, or demonstrated leadership qualities within the department.

The Farewell Event for the Batch of 2024 was a perfect blend of celebration and reflection—a memorable occasion that honored the achievements of the students while also looking forward to the future. It was a fitting tribute to the graduating class, who had not only excelled in their academic pursuits but had also contributed to the vibrant and supportive community within the AIML department.

INTER BRANCH VARIETY COMPETITION

On May 4, 2024, the AI and ML branch participated in the highly anticipated **SENTIA Interbranch Variety Competition**, a spirited and dynamic event that brought together the diverse talents of students from various branches of MITE. The competition was not just a contest, but a celebration of creativity, collaboration, and cultural expression, providing a platform for students to showcase their skills in a variety of artistic disciplines.

For the AI and ML branch, the event was an opportunity to step outside the realm of algorithms and data models, and into the world of performing arts. The team's performance was a standout moment of the competition, drawing attention for its creativity, energy, and the dramatic flair displayed by the participants.



Participation of AI & ML and CSE(AI & ML) Students in the Variety Competition of SENTIA 2024.

The preparation for the competition was a true testament to the teamwork and collaboration within the department. Students worked tirelessly over several weeks to brainstorm ideas, script their performance and rehearse their lines and actions. The event was an opportunity to break away from the everyday routine of academic pressures and celebrate the creative side of each student. Through rehearsals, the AIML team formed stronger bonds, learning the value of effective communication, trust, and the importance of teamwork towards a common goal.

The event was ultimately a celebration of unity, creative expression, and a shared love for the performing arts. It gave everyone involved a lasting sense of accomplishment and camaraderie. The competition was a reminder of the importance of balancing academics with creative outlets, and how such experiences contribute to personal growth, collaboration, and teamwork.

As the event drew to a close, it was clear that the AI and ML branch's participation had left a lasting impact on everyone involved. The competition was not just about the accolades or recognition—it was about building friendships, embracing new challenges, and celebrating the collective spirit of MIT students. For the AI and ML team, it was an experience that would be cherished for years to come, reinforcing the idea that creativity and technical excellence can coexist and flourish when nurtured together.