



INTELLECT

Computer Science and Engineering (AI & ML)

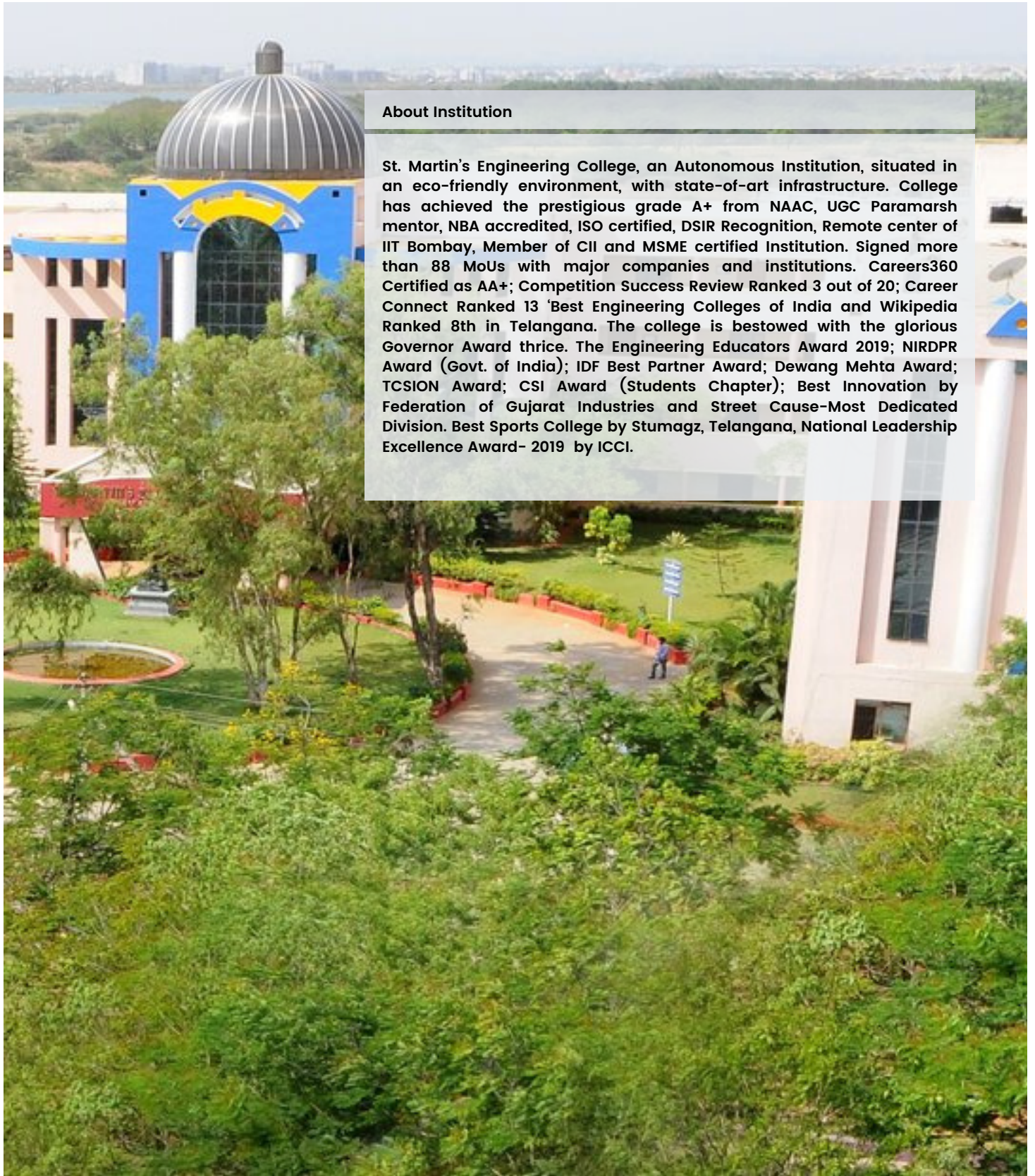
St. Martin's Engineering College

An Autonomous Institute
NBA & NAAC A+ Accredited
Dhulapally, Secunderabad - 500100



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About Institution

St. Martin's Engineering College, an Autonomous Institution, situated in an eco-friendly environment, with state-of-art infrastructure. College has achieved the prestigious grade A+ from NAAC, UGC Paramarsh mentor, NBA accredited, ISO certified, DSIR Recognition, Remote center of IIT Bombay, Member of CII and MSME certified Institution. Signed more than 88 MoUs with major companies and institutions. Careers360 Certified as AA+; Competition Success Review Ranked 3 out of 20; Career Connect Ranked 13 'Best Engineering Colleges of India and Wikipedia Ranked 8th in Telangana. The college is bestowed with the glorious Governor Award thrice. The Engineering Educators Award 2019; NIRDPR Award (Govt. of India); IDF Best Partner Award; Dewang Mehta Award; TCSION Award; CSI Award (Students Chapter); Best Innovation by Federation of Gujarat Industries and Street Cause-Most Dedicated Division. Best Sports College by Stumagz, Telangana, National Leadership Excellence Award- 2019 by ICCI.



About Department

Department of Computer Science and Engineering (AI & ML) was established in the year 2020 with an intake of 60. The Department has well equipped laboratories with latest configuration systems and updated licensed software were installed.

Student's chapters of professional societies like TAM, CSI, & ISTE, which aim at tapping the inner abilities and showcase their talents. Various social services through NSS, CLUBS, and ISR for holistic development of our students.

We encourage student to improve Self-Learning skills, by providing round the clock on-line Resources from various sources like NPTEL, MOOCS, SWAYAM, OPAC, IEEE, SPRINGER, J-GATE etc., Students will be benefited to update their skills and they become a Global leader with latest technologies.

The department has collaboration with various industries offering credit courses, conducting workshops & faculty development programs, offering internships, projects and placements etc. Students are sent on industrial visits to companies and they also undergo in-plant training at top level industries as well. Students are eligible to obtain successful placements at leading companies like Infosys, Wipro, Cognizant, TCS, IBM, Microsoft, Oracle, Tech Mahendra etc.

Message from Principal



Dr. P. Santhosh Kumar Patra

The essence of learning lies in pursuing the truth, St. Martin's Engineering College firmly believes that education is way to success. It is a matter of great pride and honor that the news Letter 'INTELLECT' released by the Department of Computer Science and Engineering (AI & ML). The Department of CSE (AI & ML) was established in the year 2020 and organized various events such as Guest lecture, Webinar and Industrial visits. The faculty members and students published many research papers in various National and International journals including UGC Care, Scopus and SCI. I wish the faculty members and students for their significant achievement and commitment. I appreciate the sincere efforts of Dr. T. Poongothai, HOD of CSE (AI & ML) to guide and bring out the talent of the faculty members and students. I congratulate the editorial board of this news letter who have played wonderful role in accomplishing the task in stipulated time. My heartfelt congratulations to all the faculty members and students of Department of CSE(AI & ML) for their fruitful effort and contribution. All the youth must be visionary and cautious of their deeds. Strive hard as there is no shortcut for success. Lead your career with your smart work rather than hard work. I wish all the best for the Academic, Research and Developmental activities in the Department to achieve greater heights.

Message from Head of the Department



Dr. T. Poongothai

It gives me great pleasure to share the technical newsletter of our Department. 'INTELLECT' This newsletter is a nice blend of achievements of students and faculty. It is a great pride to be part of the team which strives to bring out the talents of the students and staff. I wish to record my hearty congratulations to those who have brought laurels to the department, appreciate all of you for working together as a team. I am confident that this newsletter consists of informative articles and new concepts will be appealing and valuable to the readers. Reading this technical Newsletter will undoubtedly inspire and motivate all students and faculty to contribute even more to future issues. I thank our Principal Sir for encouraging and motivating us to organize various events, publishing articles in journals, conferences, patents and writing books. I am delighted to congratulate the editorial team for their efforts in publishing this Newsletter. I take this opportunity to express my sincere thanks to all the members of the faculty and students of CSE(AI & ML) Department for their sincere involvement and contribution. I extend best wishes for the success of this endeavor.

Department Vision

To become a centre of excellence in the field of Artificial Intelligence and Machine Learning and producing globally competent professionals, innovators and entrepreneurs and thereby contribute value to the society.



Department Mission

- To create an environment where students excel in their creative talents and achieve excellence in all the activities.
- To develop an innovative, competent and Ethical Engineers with strong foundations to enable them for lifelong learning.
- To empower the students to solve real world problems with basic engineering and research-based knowledge by incorporating moral values.

The world of Artificial Intelligence & Machine Learning

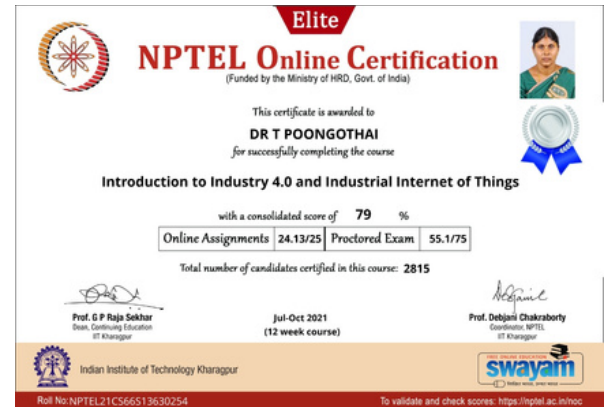
Artificial intelligence & Machine learning is impacting the future of virtually every industry and every human being. It has acted as the main driver of emerging technologies like big data, robotics and IoT, and it will continue to act as a technological innovator for the foreseeable future.



Department Board and Recognitions

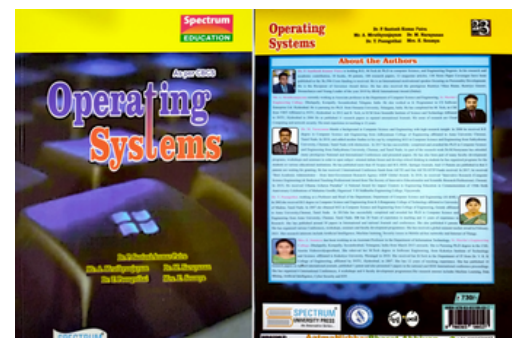
Achievements

- Dr. T. Poongothai received Academic Excellence Award from Novel Research Academy ,Puducherry during the Academic Year 2021-22.
- Dr. T. Poongothai received the certificate for completing the NPTEL course on "Introduction to industry 4.0 and industrial internet of things" in the month of July- Oct 2022.
- Dr. T. Poongothai received the certificate for completing the NPTEL course on "Introduction to Machine Learning" during January-April 2022.
- Dr. P. Deepan awarded Ph.D. Degree from Annamalai University during the academic year 2021-22.
- Mrs. P. Laxmi Devi received the certificate for completing the NPTEL course on "Introduction to internet of things" during 2021-2022.



Book Publications

- Dr. T. Poongothai Published a Book titled "Operating Systems" in the academic year 2021-2022.
- Mrs. P. Laxmi Devi Published a Book titled "Discrete Mathematics" during the academic year 2021-2022.
- Mr. D. Venkatesan Published a Book Chapter "The Internet of Thing (IoT) in Healthcare: A Review of Enabling Technologies, Standards Protocols, security, and Market opportunities", ISBN:978-81-956262-8-1, edition 1, April 2022.



Department Board and Recognitions

Journal Publications

Dr. T. Poongothai

- “Artificial Intelligence Enabled Security Technologies for 6G Wireless Communications”, Wesleyan Journal of Research, Vol.14 No.5, 2022.
- “Enhancing security in mobile Ad Hoc networks using non cooperative Bayesian game approach”, AIP Conference Proceedings 2393, 020199, 2022.
- “Malicious attack alleviation using improved time-based dimensional traffic pattern generation in UWSN”, Journal of Theoretical and Applied Information Technology, Vol.100, No.3, pp.682-689, 2022.
- “Building a Novel Intrusion Detection System using Long Short-Term Memory for Detecting Network Attacks”, Turkish Online Journal of Qualitative Inquiry (TOJQI), Vol.2, No.8, pp.7184-7198, 2021.

Dr. P. Deepan

- “Insect Pest Classification and Predictions in Different field of Crops using PC-CNN Model”, International Journal of Mechanical Engineering, Vol. 7 (1), 2022, ISSN: 0974-5823. (Scopus)
- “Scene Classification of Remotely Sensed Images using Optimized RSISC-16 Net Deep Convolutional Neural Network Model”, EAI Endorsed Transactions on Scalable Information Systems, Vol.3(8) ,2022, <https://doi.org/10.4108/eai.1-2-2022.173292>. (WoS)
- “Heart Disease Prediction System Based on Multiple Feature Selection Algorithm with Ensemble Classifier”, ECS Transactions, Vol. 107 (1), pp. 8049-8059, 2022. <https://doi.org/10.1149/10701.8049ecst>. (Scopus)
- Dr. P. Deepan Published a Book Chapter titled "An Efficient Deep Learning Framework for Multimedia Big Data Analytics", CRC Press, Taylor and Francis.

Department Board and Recognitions

Patents

- **Dr. T. Poongothai** published a Patent titled “Smart Spectacles For Maintaining Social Distance And Precautions From Vulnerable Diseases”, Application No. 202241004670 A, Publication Date: 04/02/2022.
- **Dr. T. Poongothai** published a Patent titled “Automatic Water Controlling System For Home Gardening”, Application No. 202141032852 A, Publication Date: 30/07/2021.
- **Dr. P. Deepan** published a Patent titled "An IoT and Deep Learning-based Real-Time Smart Framing of Maize Crop Drought Management System", Application No. 202241027045 A, Publication Date: 03/06/2022.
- **Dr. P. Deepan** published a Patent titled "Intelligent Monitoring System: Emotion Recognition of Autism Children from Smart Class Video", Application No. 202241023677 A, Publication Date: 06/05/2022.
- **Dr. P. Deepan** published a Patent titled "Real-Time Intelligent Surveillance System for Aged People Fall Detection from Indoor Video", Application No.202241025101 A, Publication Date: 13/05/2022.
- **Mr. D. Venkatesan** published a patent titled "IoT With Artificial Intelligence Based Decentralized Authentication Modelling Scheme In Edge Using Block Chain Techniques" Application No. 202211022588 A, Publication Date: 22/04/2022.
- **Mrs. P. Laxmi Devi** Published a patent titled "Smart Spectacles For Maintaining Social Distance And Precautions From Vulnerable Diseases". Application No:202241004670 A.
- **Mrs. P. Laxmi Devi** Published a paper titled " IOT Enabled Smart Transportation System For Smart Cities ISSN: 1110-8703, Pages: 1937-1949, Volume:5 Issue2.
- **Mrs. P. Laxmi Devi** Published a patent titled" A Machine Learning Algorithm Is Used In Firewalls For The Purpose Of Protecting Social Media. Application No:2022410383 in the year 2021-2022.

Students Achievements

Inter College Sports Competition

- **Winners at Ashwatthama-Indian open Engineering inter collegiate Sports Fest-2021 (snist, ghatkesar) on 6/12/21-8/12/21.**
- E. Anmol & T. Sareen.
- **Winners at Phoenix-9th national level inter engineering collegiate Sports Fest held at Vidya Jyothi Institute of Technology, Aziznagar on 12/5/22-13/5/22.**
- T. Sareen.
- **Winners at 13th Indian open inter engineering collegiate Sports Fest-22 held at VNR VJIT, Nizampet on 1/6/22-2/6/22.**
- T. Sareen.



T.Sareen
II Yr CSE(AI & ML)

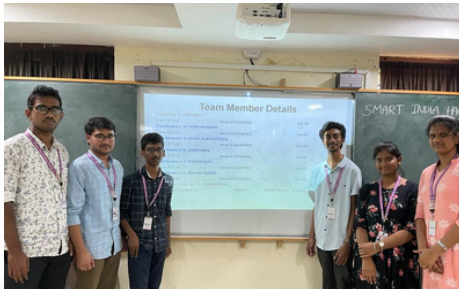
Annual Sports Competition

- **Won the Throwball competition in the college during the year 2022.**
- B. Anokhi, S. Rama Rajeshwari.
- **Won the Badminton competition in the college during the year 2022.**
- G. Akshitha.
- **Won Silver medal in Table Tennis and Carrom competition during the year 2022.**
- B. Sathvik.
- **Runner up in the Cricket Sport held during the year 2022.**
- B. Sathvik, N. Avinash Reddy, G. Deeraj,
Ch. Abhishek, S. Madhu Praveen.

Students Achievements

Technical

Smart India Hackathon Event



Team : SMEC19 Participated in the Event with the idea of "IOT based Sensors Can Be Used to Determine the Machine Runtime".

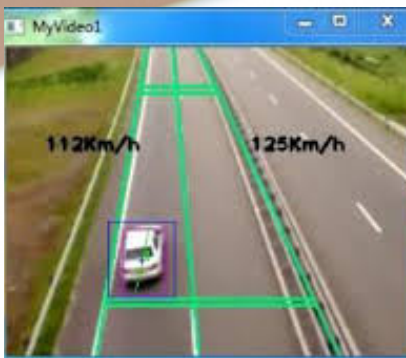
- K. Avinash, M. Vineeth, T. Yogesh Ajay, P. Praveen Reddy, A. Angel Mary Poulina, B. Aishwarya.

Team:SMEC03 Participated in the Event with the idea of "Conversational Chatbot builder Smarter Virtual Assistance with domain specific AI".

- B. Pavan Kumar, C. Anush Kumar, N. Abhiram, Ch. Abhishek, M. sanjana, K. Santhoshi.



Technovation



One of our teams had been a part of the Technovation Event held in the college and presented the idea "Car Live Speed Detection" along with the code execution.

- P. Vihari, B. Pavan Kumar, B. Anokhi, S. Lohitha Reddy, E. Anmol.

Students Achievements



The member of Marketing Department in the Technical Awareness Month Event (TAM v8) during the year 2022 which conducts technical events throughout the month to improve technical and non-technical skills of the students.

- B.Sathvik

- Runner Up Team in the Codevita event held by TAMv8.
- A. Rashmitha Reddy , S. Lohitha Reddy, E. Anmol.
- Runner up in the Youth Parliament event held by TAMv8.
- K. Avinash.



Academic Achievements

- C. Anush Kumar secured Rank 1 in the Academic year (2021-2022).
- A. Angel Mary Poulina secured Rank 2 in the Academic year (2021-2022).
- M. Sanjana secured Rank 3 in the Academic year (2021-2022).
- K. Shanthy secured Rank 3 in the Academic year (2021-2022).

Events

Guest Lecture

The Department of Computer Science and Engineering (AI & ML) has organized a Guest Lecture on “Foundations of Machine Learning” on 01.06. 2022. This program was organized with an objective to upgrade the knowledge of students about machine learning. This programme started with welcome address delivered by Dr.T. Poongothai, Head of the Department, CSE(AI & ML) and Ms. A. Angel Mary Poulina, CSE(AI & ML) gave a brief note to Dr.D.V. Ramana, Resource Person, Data Strategist – Consultant Empiezo and Wissen Infotech, Hyderabad. He delivered a wonderful address to the participants.



Industrial Visit

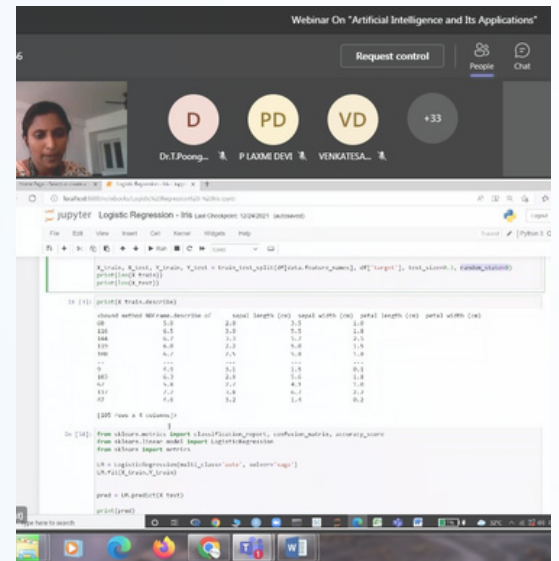


The Department of Computer Science and Engineering (AI&ML) has organized an industrial visit on 18th December, 2021 to the Hindustan Aeronautics Limited (HAL) at Balanagar for the II year B.Tech students. The visit was organized with prior permission and guidance of our beloved principal, Dr. P. Santosh Kumar Patra Sir and HOD, Dr. T.Poongthai Mam. Mr. Y. ChandraMouli is the coordinator and Mrs. P.Laxmi Devi, Mr. P.Deepan were Co-organizers of this industrial visit.

Events

Webinar

The Department of Computer Science and Engineering (AI & ML) has organized a Webinar on "Artificial Intelligence and its Application" on 13 June 2022. This program was organized with an objective to upgrade the knowledge of students about Artificial Intelligence and its applications on various domains. This program started with welcome address delivered by Dr. T. Poongothai Head of the Department of CSE(AI & ML) and Ms. A. Laxmi Devi CSE(AI & ML) gave a brief introduction about the resource person, Dr. P. K. A. Chitra, Associate Professor. Nurture Educational Solutions, Bangalore. She delivered a wonderful lecture to the participants with the case study. At the end of the session, Vote of thanks was delivered by Mr. D. Venkatesan, Assistant Professor, Department of CSE(AI&ML) to the resource person and all the participants.



Traditional Day

In this modernized world where people are forgetting tradition and culture the Department of Computer Science and Engineering (AI&ML) has revitalized the roots of tradition by embodying the culture of the heart of our beloved India, Madhya Pradesh on the college's iconic event the traditional day. The event was really fruitful and was organized under the supervision of Dr. T. Poongothai HOD of CSE(AI&ML).



Events Attended

ML Workshop

Guest Lecture

Technovation

Industrial Visit

AWS Workshop

Cyber Security Workshop

Technical Talkshow(TAM)

TechCrunch(Sympoagyan)



Students Experience

The amazing journey of my career started at St. Martin's Engineering College from 2020 when the world was still recovering from pandemic, I was so excited to explore the college campus, learn much hands-on practically. As the offline college started, I had wonderful experience by taking part in the technical events such as webinars, workshops, "smart India hackathon" & "Technovation" and organizing non- technical events such as traditional day and freshers day with my colleagues that are held in the college played a major role in my personality development and acquiring knowledge as well as made me stronger in the technical domain. I believe that it is very important to engage with industry, explore the world beyond the borders, learning innovative technologies & balancing academics is challenging but important as well. We published our first research paper at International Conference held in the college. Later, being certified as "Microsoft AI Azure cloud professional" and acquiring the opportunity In a start-up "Devtown" as a business development intern nurtured my skills in a professional way. This made to my journey with much more creative, skillful and there is much more ahead. I am thankful to our Principal, Head of the Department and college management.



Pavan Kumar Bashetti
II Yr CSE(AI & ML)



Sanjana Meeripelly
II Yr CSE(AI & ML)

In this wide and beautiful world which is a constant run in technological advancements where there is an insatiable thirst in the field of computer science, AI is the building blossom which is having the capability to shape the world on its own ,with this in the mind and the aim at heart I have chosen CSE (AI and ML) course in St. Martins Engineering College. life poses a lot of challenges in front of me. we learn to make decisions on our own way. Studying in an Engineering college is an experience for a life time. In the second year, we participated in all the cultural events conducted by our college such as Freshers day, Annual day, Traditional day and also participated in technical events like smart India hackathon , TAM , workshops etc. Events are not only a valuable learning opportunity but they are also a great way to get integrated into the college culture while giving us experiences that we may remember for our life time. I achieved a record in my academics by securing 3rd place in the Department. I got to believe that the experience of these 4 years will make us the person that we dream to become and I would like to thank our Principal, H.O.D and Our mentors.

Students Experience

I have started my B.Tech at St. Martins Engineering College from the year 2020, classes were conducted in online mode for the semester. I was in an excitement to attend classes in offline mode so that I could meet my College friends and faculty members. In my view, I believed that just attending classes and clearing exams is not enough, Then I started exploring various fields like marketing etc. Luckily I got an opportunity to work as an intern in Gobisbo Broadcasting networks pvt. Ltd, Creative Department. I learnt innovative many things and got a chance to interact various people from the different parts of our country. My internship lasted for 5 months it was a great experience. As we entered into second year, Our HOD Dr.T.Poongothai madam helped us to gain confidence and knowledge about AI & ML. Our college campus that has become a stage to showcase my talent. I hope that I will reach my goals in the next two years. I am very thankful to our Principal, HOD and faculty members who are helping to pursue our goals.



Vineeth Reddy Maddula
II Yr CSE(AI & ML)



Aishwarya Bazzurla
II Yr CSE(AI & ML)

My journey towards the next phase of my life was filled with doubts ,stress and anxiety. That phase in the middle of a pandemic made me apprehensive about all the decisions that lead up until this moment It was after getting allotted to St Martin's Engineering College. In the second year, I have experienced true college life, the Balance between Studies and Events. As Seniors organized Freshers day followed by traditional day both the events were successful and improved our leadership skills. Being in NCC, Even after facing challenges with online-offline bumpers. NCC(National Cadet Corps) with its motto unity and discipline. It is challenging to keep up with the pace of Our Incharge Mrs. Padmaja had been guiding us into the light and her loyalty to NCC is very appreciable. It is my pleasure to be able to know her as a person she is a perfect combination of liveliness and energy. Later, We had the memorable era of TAM- Technical Awareness Month with different events being held to improve our technical skills. Our HOD madam arranged many seminars and webinars on Machine Learning that gave us scope and headstart in Data Science. I am grateful to be a part of SMEC and hope to do much better with the further guidance of our Principal, HOD and faculty members .

Student Clubs



Ethical Hacking Club

Helps to create awareness on cyber threats and to understand how hackers breach our data few demos and projects like firewall creation are made in club in a professional way.



Internet Of Things (IOT) Club

Helps to encourage & master the students in the IOT and related domains & develop new industry ready skills along with the work on practical projects to gain knowledge in IOT.



Coding Club

It helps to improve the coding skills of the students with there logical thinking ability and complex coding projects, competitive and dynamic programming.

Student Clubs

AI & ML Club

Helps to create better understanding and form perfect bond between man and machine understand the risks of misusing the AI. It Mainly deals with fundamentals and applications of Artificial Intelligence & Machine Learning in the real world.



Web Designing Club

In the current world, website creation has become a necessity for every company and startups.

Web designing club helps students in learning HTML, CSS, etc languages which are useful for website creation and practically helps students to create websites and deploy.



Department Gallery



Department Gallery



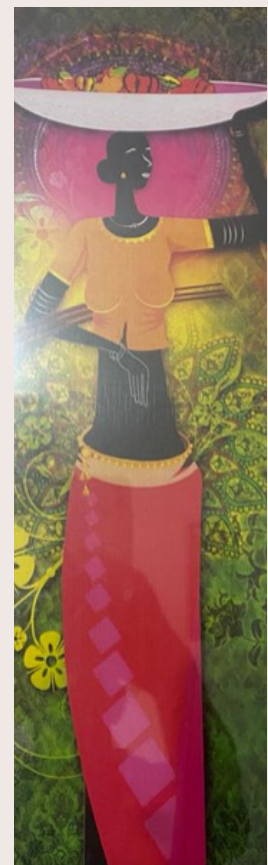
Creative Corner



Sombathina Madhu Praveen
(II Yr CSE(AI & ML))

Art can be found in many forms and in many places. It can be serious, humorous, sad, happy, etc. It can be real or fiction. I represent it with the passionate art of painting. Exploring a variety of different artistic endeavors, these speeches about art provide insight into the artistic process, inspiration for different artworks and the ways art can have an impact on both the world and the individual. Many of these speeches actually feature performance and live art, creating a unique experience for viewers.

- Art by Sombathina Madhu Praveen (II Yr)



Creative Corner

కళాశాల

కళాన్వేషణలో నున్న కళాపూర్ణులను కలవరపడనీయక వారి కళా సాధన
కొరకై కలల కలశంలో నుండి క్లిష్టమైన జ్ఞానమును అవలీలగా కలకాలం
ఉండునట్లు కలిగించు కలలశాల మా సెస్ట్ మార్టిన్స్ కళాశాల

प्रातः की विशेष

सुबह के सूरज की सुनहरी लकीरों से जी उठता है पृथ्वी का जीवन जिस जीवन
से हम इंसान जुड़े हैं जिन इंसानों से यह पूरी सृष्टि का हर पल हर क्षण जुड़ी है
वह अगर सिर्फ एक रोशनी के तीर से हो सकती हैं तो क्यों ना इस धरती का
हाल सिर्फ हमारे एक कदम से शुरू हो

Mundane life of students

Oh! hear ye thee wanderers, here ye thee mortals the
predicaments of the weary novices as they thread towards
their mundane lives of refinement; its all about unfinished
brunches hurried travels and the wait for their Fidus achates
and leaving the premises with the sense of accomplishment
of learning something and the wheel keeps swiveling; thus
being a student is an art in and itself...



- By Avinash Kuppam

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