

ALDEL EDUCATION TRUST'S
ST. JOHN COLLEGE OF ENGINEERING AND MANAGEMENT
(AUTONOMOUS INSTITUTE)
(A CHRISTIAN RELIGIOUS MINORITY INSTITUTION)
APPROVED BY AICTE AND DTE, AFFILIATED TO UNIVERSITY OF MUMBAI/MSBTE



epoch

3.0!



institute



VISION

To impart quality engineering education for holistic development.

MISSION

- To impart quality engineering education for holistic development.
- To promote innovation technology enable teaching and learning process.
- To provide conducive environment for joyful learning, innovation & research.
- To nurture socially responsible engineers, entrepreneurs & leaders.
- To enhance employability skills to meet changing industrial trends.

VISION

To be a department dedicated to develop competent and efficient Artificial Intelligence and Machine Learning graduates, equipped with strong research aptitude and leadership qualities.

department

MISSION

- To inculcate a habit of lifelong learning to become globally competent efficient Artificial Intelligence and Machine Learning graduates.
- To promote excellence by encouraging creativity, critical thinking, and discipline.
- To establish relationships with other institutes as well as industries to have collaborative learning.

PROGRAM SPECIFIC OUTCOMES

- An Ability to apply concepts of engineering mathematics, discrete mathematics, data structures, algorithmic principles, object-oriented programming concepts, and theoretical computer science in the modelling and design of computer-based systems.
- To apply a research-based approach using innovative tools and techniques in the field of networking, operating systems, artificial intelligence security techniques, and database management and mining techniques to deliver quality results and valid conclusions.
- Ability to secure employment or be an entrepreneur and apply the knowledge and understanding of engineering principles while portraying competencies like teamwork, effective verbal and written communication skills, and a zeal for lifelong learning with an ethical responsibility

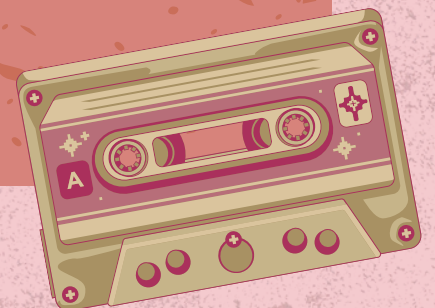
PROGRAM EDUCATIONAL OBJECTIVE

- To attain knowledge, skills, and competencies for futuristic needs required at national and international levels with ethical standards.
- To contribute to the development of artificial intelligence and machine learning through research.
- To display personal growth by pursuing higher studies, professional development courses, and/or engineering certification.

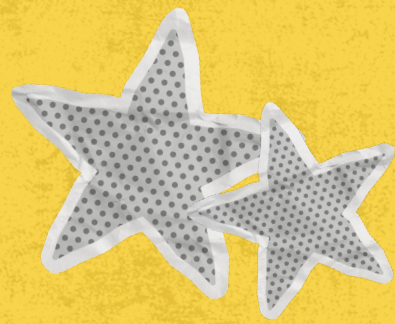
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FROM THE DESK OF



The newsletter serves as an important communication channel for students, staff, parents, and friends to stay informed about the recent activities and developments within the department. I congratulate the HOD, faculty, students, and the editorial team for successfully producing this new issue of the department newsletter. At St. John, we remain dedicated to providing our very best support and guidance to every student. I sincerely extend my heartfelt gratitude to all parents, students, and stakeholders who have placed their trust in us and have been part of this remarkable journey at St. John Technical Campus. Together, let us unite in working toward our vision of Trust: “Excellence in Serving to Educate and Educating to Serve.”



MR. ALBERT D'SOUZA
CHAIRMAN, AET



MR. ALRIDGE DSOUZA
MEMBER, AET

The newsletter plays an essential role in connecting students, faculty, parents, and well-wishers, ensuring they stay updated on the department's latest events and progress. I wholeheartedly applaud the HOD, faculty, students, and editorial team for their dedication in bringing forth this new edition. At St. John, we are steadfast in our mission to provide every student with the highest level of guidance and support. My heartfelt appreciation goes out to the parents, students, and stakeholders who continue to place their trust in us and contribute to the growth of St. John Technical Campus.

The newsletter is a valuable platform for students, staff, parents, and friends to stay updated on the latest activities and developments within our department. I extend my heartfelt congratulations to the HOD, faculty, students, and the editorial team for bringing out this new edition. At St. John, we remain deeply committed to providing the highest quality education and support for our students. I sincerely thank all the parents, students, and stakeholders for their continued trust and support. United in our purpose, let us strive toward our shared vision of Trust: “Excellence in Serving to Educate and Educating to Serve.”



DR. KAMAL SHAH
PRINCIPAL, SJCEM





Department message

The Department of Artificial Intelligence and Machine Learning (AIML), established in 2021 with an initial intake of 30 students—expanded to 60 in 2023—is committed to delivering high-quality education that prepares graduates to excel on a global stage. Our mission is to equip students for successful careers in industry, entrepreneurship, and research by integrating innovative teaching methods such as flipped classrooms, peer-to-peer learning, and real-time industry projects.

XOXO

We actively engage students through the Association of Students for Artificial Intelligence (ASCAI), which hosts workshops and hands-on sessions led by industry experts. Emphasizing collaborative learning, the department consistently achieves excellent academic outcomes. Our state-of-the-art laboratories, equipped with licensed software and high-speed internet, provide an ideal environment for experimentation, project development, and research. Our strong record of internships and certifications underscores our commitment to student success.

Overall, the department fosters comprehensive development, preparing students for impactful careers in rapidly evolving fields. Our dedication to excellence distinguishes us as a leading force technology and data science, positioning AIML as one of the premier departments on campus.

aiml

MESSAGE BY HOD !!

Epoch 3.0!!!

With the dawn of the new beginning of the academic year 2023-24, I am deeply gratified to share my thoughts through this timeline of communication. Technology, as a spectrum of limitless ideas, continues to evolve and shape our world in unimaginable ways. Every impossible idea becomes a reality through determination and innovation. As I always say, "The world of creativity is vast; all it takes is a spark of intellect and relentless pursuit to bring ideas to life." Be the technocrat who not only envisions new ideas but also brings them to the forefront of society. In this era, AI, ML, Data Science, and other emerging trends have become central to technology. The AIML Department at SJCEM, Palghar, continues to empower aspiring engineers with the most advanced technical skills and hands-on training to ensure their holistic growth. Aligning with the NEP, we provide students with practical exposures through industrial visits, expert talks, seminars, and national and international platforms to prepare them for the competitive market and equip them with essential skills.

At the department, our focus extends beyond technical proficiency; we prioritize the development of interpersonal skills as well, aiming to groom students mentally, culturally, and socially. This year marks a special milestone with our first BE batch, ready to graduate. With three active classes—BE, TE, and SE—the department has expanded remarkably. Both students and faculty have been actively engaged in projects, while ASCAI has hosted several insightful sessions contributing to career growth. Our students have also participated in events like AVishkar, and some have won prestigious awards, including cash prizes from the state government for their exceptional projects.

I extend my heartfelt wishes to the energetic team behind Epoch 2.0 and all the aspiring technocrats of SJCEM.



EDITORIAL'S MESSAGE



Dnyanada
Editor in Chief



Shreshtha
Senior Editor



Chetana
Junior Editor



Tanishka
Junior Editor



Jivitesh
Junior Editor



Siddhant
Junior Editor



Hiten
Editor



Shivani
Editor

“

Hello AIML & DS (CSE) Enthusiasts!
As architects of Epoch 3.0, the editorial team is delighted to present a vibrant showcase of ASCAI's milestones and achievements. From outstanding student accomplishments to inspiring artworks, this newsletter reflects the creativity, dedication, and excellence of our AIML/DS Department.

Join us as we journey through the pages of Epoch 3.0 and celebrate the collective spirit that drives ASCAI forward!

Warm regards,
The Editorial TeamS

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Student Achievements

Aarchi Pimple
Participated in the
Cybersecurity Guidance
Session

Participated in
Digital India Quiz

**Siddhant
Koli**

Participated and
Won 2nd place in
Poster Competition
in SJCEM

**Tanishka
Gharat**

Aditya Singh
Won 2nd place in
Eureka Pitching
Competition

Aarchi Pimple
Participated and Won
1st place in Throwball
at SJCEM

**Samruddhi
Niungare**
Participated and Won 2nd
place in Basketball at
SJCEM

Participated and
Won 1st place in
Volleyball at
SJCEM

Participated and
Won 2nd place in
4*200M Race at
SJCEM

**Tanishka
Gharat**

**Vaishnavi
Khandagale**

Aditya Singh
Won in Swachh Bharat
Abhiyan Project of Nagar
Parishad

**Samruddhi
Niungare**
Participated and Won
2nd place in Volleyball at
SJCEM

Participated and
Won 1st place in
Throwball at
SJCEM

**Tanishka
Gharat**

Student Achievements

Mr. Sahil Dongre

Participated and Runner-Up in the InterCollegiate Squash Tournament at N.M College

Won 2nd Prize in 400m Relay

Tanish Mhatre

Vrinda Khare

Participated in Megahack 5.0 Hackathon At SJCEM

**Ripinjal Rahi
Shreshtha Roychowdhury**

Won 1st prize in the Business Idea Pitch Competition organized by the MMS department

Participated and Achieved a top 10 finish at HACKANOVA 4.0.

Shashikant Rajput

Mr. Surai Chauhan

Mr. Tejas Ruke
Won 1st Prize in Code Relay at Megaleio 2025

Published a paper entitled: "Cybercrime in the Digital Age: IOT Security Challenges, Threat Mitigation and AI-Driven Solution"

Won 1st Prize in International Research Paper Presentation

Hiten Champanekar

**Ripinjal Rahi
Supriyo Rana
Parth Dhumak**

Won 1st Prize in BGMI Tournament at ITSA, SJCEM

Viral Patel

Yash More
Participated in Megahack 5.0 Hackathon At SJCEM

Won 1st Prize in Video Showcase Competition held by Viva College

**Ripinjal Rahi
Supriyo Rana
Darshan Repale
Hemant Yadav**

Volunteered during TATA Mumbai Marathon 2024

Shreya Patil

Yash More
Won 1st Prize in Carrom at SJCEM

Student Certifications

JAYESH KOLI
COURSE COMPLETED IN
CYBERSECURITY

TANISHKA GHARAT
ARTIFICIAL INTELLIGENCE
UPSKILLING COURSE

**ADITYA
BEHERA**
GOOGLE AI ESSENTIALS

**SHASHIKANT
RAJPUT**
R FOR DATA SCIENCE

PRITI VARMA
NPTEL COURSE COMPLETED:
PYTHON FOR DATA
SCIENCE

TANISHKA GHARAT
COMPLETION OF INTERNSHIP
FROM MY JOB GROW

ABOUT ASCAI



ASSOCIATION OF STUDENTS FOR COMPUTING AND ARTIFICIAL INTELLIGENCE

“ VISION

Fostering excellence and forging connections to create a united, inclusive community that drives meaningful impact in academia and beyond.

“ MISSION

- Foster academic excellence and personal growth by providing a supportive, inclusive environment with resources, mentorship, and opportunities for student success.
- Bridge academia and industry through networking, career development, and collaborative interdisciplinary learning.
- Celebrate diversity and promote inclusivity by engaging the community in volunteering and awareness initiatives to drive real-world impact.

Connecting with the Immersive World
(AR/VR/MR & Metaverse)
28 August 2024

EVENTS BY ASCAI



The workshop on "Connecting with the Immersive World" gave students hands-on experience with AR/VR/MR and insights into future opportunities.

Mastering GATE 2025: Essential
Insights, Strategies, and Expert Tips
29 August 2024



The GATE 2025 session covered syllabus, exam pattern, and strategies for DSAI and CSE, with expert insights from Vivian Lobo, Sakshi Mogre, and Tanmay Bari.

Blockchain
31 August 2024



Radiant IT Services' session showcased blockchain's role in driving innovation, transparency, and career opportunities, while noting COVID-19's push for faster digital adoption.

Discussion on Generative AI
and GAN Models
14th August 2024



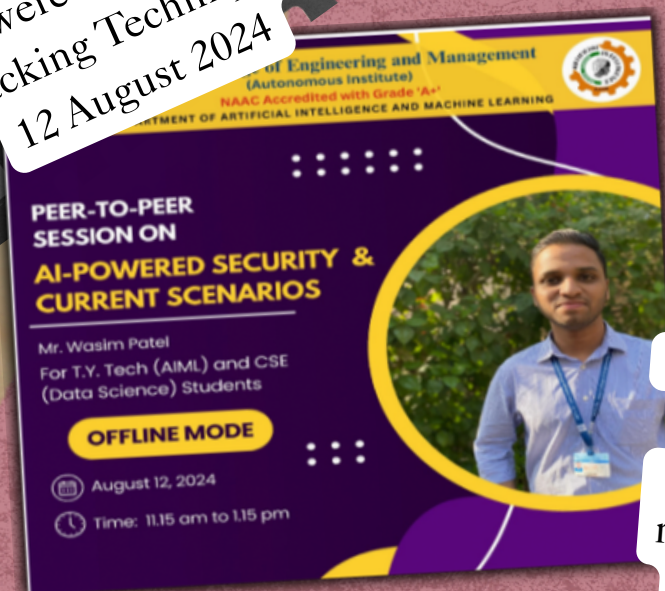
Dr. Shobha Tyagi's session explored
generative AI from GANs to
Transformers, highlighting its potential,
impact, and ethical challenges across
industries.

Vortex.AI
1st October 2024

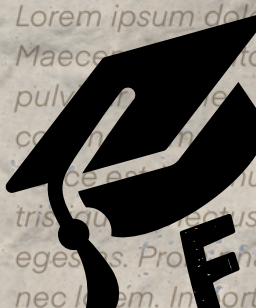


The Vortex.AI event built
technical skills, teamwork, and
innovation, while offering a
competitive yet enjoyable
experience with useful insights for
future improvements.

AI-Powered Security and
Hacking Techniques
12 August 2024



The AI-powered security session by
Wasim Sir gave insights into
cybersecurity challenges, tools, and
real-world applications, highlighting
the need for continuous learning.



FACULTY ACHIEVEMENTS



MRS. JULY TARADE

Completed the NPTEL-AICTE Faculty Development Programme on Introduction to Machine Learning (8 weeks, Jul-Sep 2024) with a consolidated score of 71%, conducted by IIT Madras.



MRS. JULY TARADE



Received a Certificate of Appreciation from Advances in Science, Technology and Engineering Systems Journal (ASTESJ) for reviewing a research article, June 2025.

MRS. ROSY PRADHAN



Received a Certificate of Appreciation for serving as a Reviewer at the 4th International Conference on Trends n Herald in Engineering Excellence and Metamorphosis (THEEM-2025), held at Theem College of Engineering, Boisar, April 2025.

Faculty

PUBLICATIONS

MRS. JULY TARADE



PRESENTED HER RESEARCH “ENVIRONMENTAL SOUND CLASSIFICATION FOR WILDLIFE MONITORING USING DEEP LEARNING” AT THE INTERNATIONAL CONFERENCE OF INTELLIGENT COMPUTING AND NETWORKING (IC-ICN 2025), HELD ON FEBRUARY 21-22, 2025 AT THAKUR COLLEGE OF ENGINEERING AND MANAGEMENT, MUMBAI. HER WORK EXPLORED HOW DEEP LEARNING CAN BE APPLIED TO CLASSIFY ENVIRONMENTAL SOUNDS FOR EFFECTIVE WILDLIFE MONITORING, HIGHLIGHTING ITS ROLE IN BIODIVERSITY ASSESSMENT, ECOLOGICAL CONSERVATION, AND INTELLIGENT COMPUTING APPLICATIONS.

#1

Technical ARTICLES



UNDERSTANDING GENERATIVE AI: CONCEPTS, TECHNIQUES, AND APPLICATIONS

GENERATIVE AI REFERS TO SYSTEMS THAT PRODUCE NEW CONTENT SUCH AS TEXT, IMAGES, AUDIO, OR CODE BY LEARNING DATA PATTERNS, SETTING IT APART FROM TRADITIONAL AI FOCUSED ON CLASSIFICATION OR PREDICTION. KEY TECHNIQUES INCLUDE GANS FOR IMAGE SYNTHESIS AND STYLE TRANSFER, VAES FOR RECONSTRUCTION AND ANOMALY DETECTION, TRANSFORMERS AND LLMS LIKE GPT-4 AND BERT FOR NATURAL LANGUAGE TASKS AND CODING, AND DIFFUSION MODELS (E.G., STABLE DIFFUSION) FOR HIGH-QUALITY TEXT-TO-IMAGE GENERATION. APPLICATIONS SPAN CHATBOTS, CREATIVE DESIGN, MUSIC COMPOSITION, PROGRAMMING ASSISTANCE, AND HEALTHCARE INNOVATIONS SUCH AS DRUG DISCOVERY AND SYNTHETIC IMAGING.

CHALLENGES REMAIN IN ETHICS (DEEPFAKES, MISINFORMATION, COPYRIGHT), BIAS IN TRAINING DATA, HEAVY COMPUTATIONAL REQUIREMENTS, AND OCCASIONAL QUALITY ISSUES. FUTURE DEVELOPMENTS AIM AT MULTIMODAL AI COMBINING TEXT, IMAGES, AND AUDIO, PERSONALIZED CONTENT TAILORED TO INDIVIDUALS, AND LIGHTWEIGHT, EFFICIENT MODELS FOR MOBILE AND EDGE DEPLOYMENT. GENERATIVE AI IS A PARADIGM SHIFT WITH TRANSFORMATIVE POTENTIAL, BUT RESPONSIBLE AND ETHICAL USE IS CRUCIAL. REFERENCES: GOODFELLOW ET AL. (2014) - GANS; KINGMA & WELING (2013) - VAES; OPENAI BLOG; HUGGING FACE DOCS.

MRS. JAILY TARADE
(ASSISTANT PROF.)

TOPPERS AND TOP PROJECTS

Aiml S.Y.

Name	Rank	Score
Sahil	1	10
Shreshtha	2	9.98
Ripinjal	2	9.98

Aiml B.E.

Name	Rank	Score
Rimi	1	9.52
Kanhaiyalal	2	9.14
Tanishq	3	9.09

Aiml T.Y.

Name	Rank	Score
Gagan	1	9.58
Prathamesh	2	9.58
Tulashi	3	9.51

DS T.Y.

Name	Rank	Score
Shreya	1	9.73
Rudra	2	9.66
Parth	3	9.62

#1

Name - Tanishq Mahesh Surati
Kanhaiyalal Gupta

Title - AI Powered Grocery Billing System using Raspberry Pi
Domain - IoT

Initiative/Scheme - Digital India

Mapping - Sustainable Development Goal (SDG) 9: Industry, Innovation, and Infrastructure

Name - Anvay Churi, Parth Save
Title - Ecological Soundscapes: Techniques in Environmental Sound Classification for Wildlife

Domain - Deep Learning

Initiative/Scheme - Sustainable Development and Environmental Management

Mapping - Development Goal (SDG) 15: Life on Land

#2

Name - Tanmay Bari
Hrudansh Churi
Sarthak Raut

Title - Farm Connect: AI Driven Disease Detection and Farmer Support System
Domain - AI and ML

Initiative/Scheme - Agriculture and Rural Development

Mapping - Sustainable Development Goal (SDG) 2: Zero Hunger

#3



ART WORK



Chetana Patil
TE



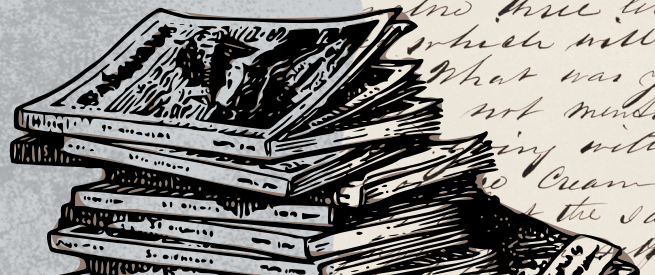
Chetana Patil
TE



Tanishka Gharat
SE



Dnyanada Patil
TE



ART WORK



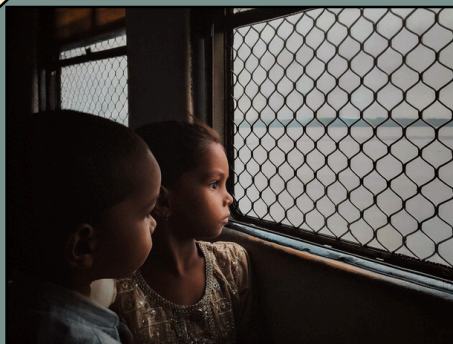
Vrinda Khare
TE



Malhar Mhatre
TE



Malhar Mhatre
TE



Swayam Sankhe
TE

VINTAGE

ART WORK



Shivani Parmar
TE



Chetana Patil
TE

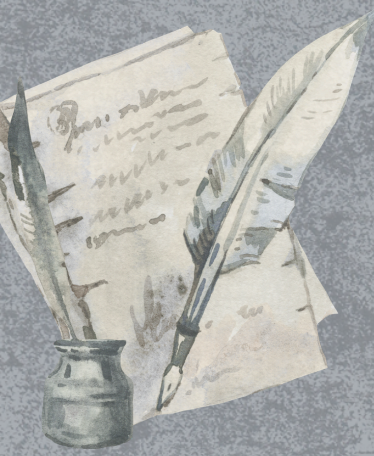


Swayam Sankhe
TE



Malhar Mhatre
TE





Echoes of Thought



If You Ever Fall

I would keep your laugh inside my chest,
And calm your mind when it needs rest.
I would hold your heart when it feels weak,
And stay in silence when you can't speak.
I would give my time, my soul, my all,
Just to catch you if you fall.



Waves Between Us

Two boats float next to each other,
the water keeps them close,
but their paths never truly meet.
They move forward with the waves,
showing togetherness to the world,
while distance quietly grows between them.



Swayam Sankhe
TE AIML

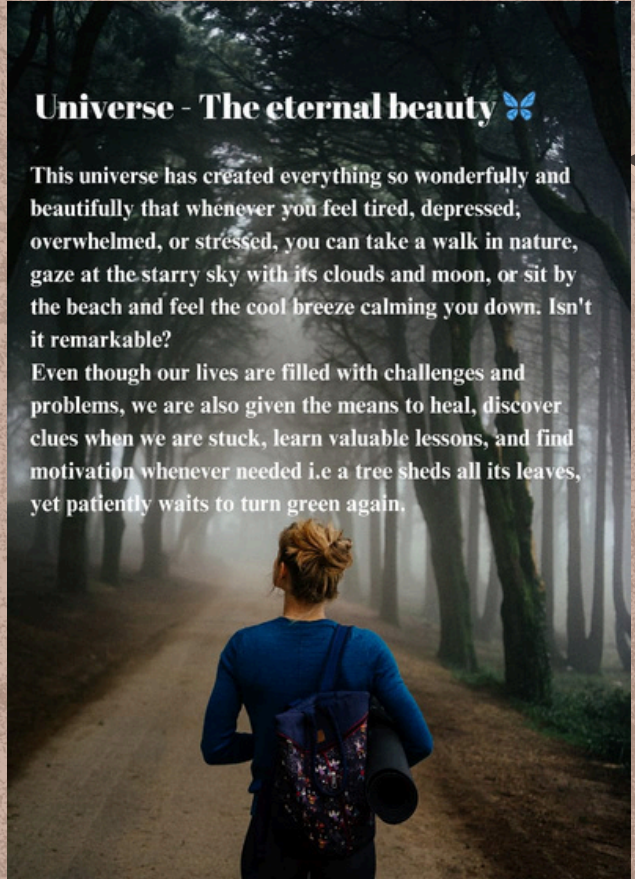
Ink & Imagination



Universe - The eternal beauty 🦋

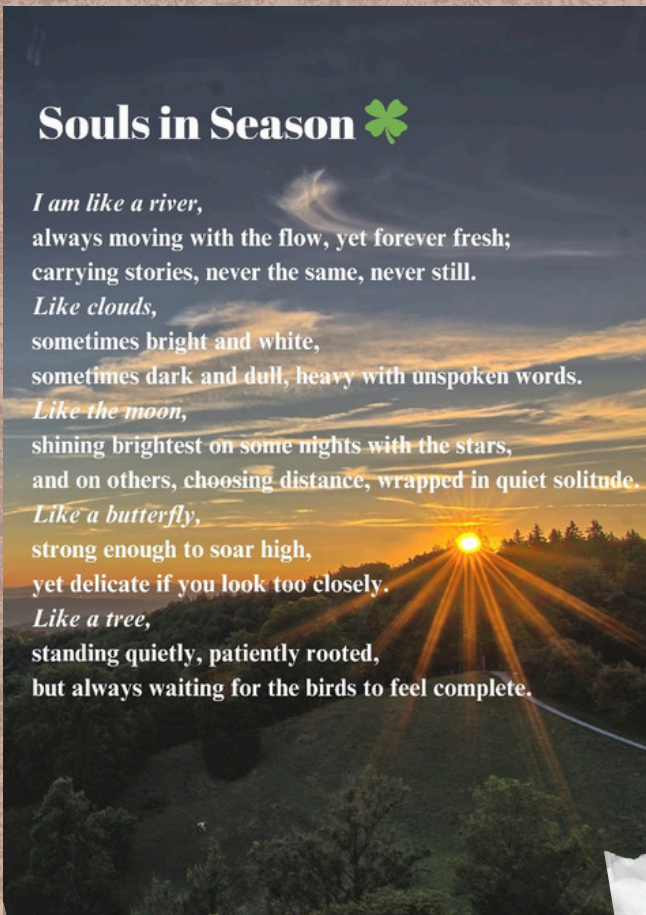
This universe has created everything so wonderfully and beautifully that whenever you feel tired, depressed, overwhelmed, or stressed, you can take a walk in nature, gaze at the starry sky with its clouds and moon, or sit by the beach and feel the cool breeze calming you down. Isn't it remarkable?

Even though our lives are filled with challenges and problems, we are also given the means to heal, discover clues when we are stuck, learn valuable lessons, and find motivation whenever needed i.e a tree sheds all its leaves, yet patiently waits to turn green again.



Souls in Season 🍀

I am like a river,
always moving with the flow, yet forever fresh;
carrying stories, never the same, never still.
Like clouds,
sometimes bright and white,
sometimes dark and dull, heavy with unspoken words.
Like the moon,
shining brightest on some nights with the stars,
and on others, choosing distance, wrapped in quiet solitude.
Like a butterfly,
strong enough to soar high,
yet delicate if you look too closely.
Like a tree,
standing quietly, patiently rooted,
but always waiting for the birds to feel complete.



Nidhi Thakur
TE AIML



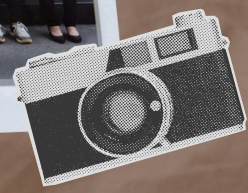
AIML

2025-26

BE AIDS



TEAML



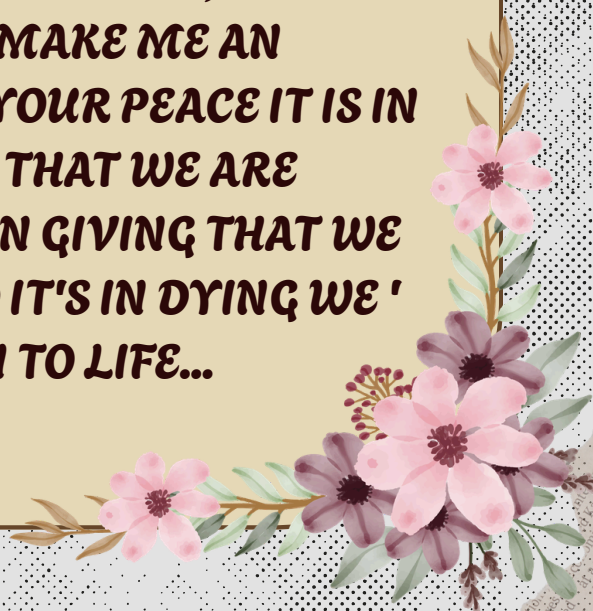
SEAIML

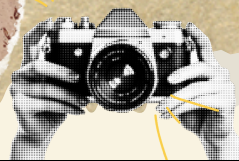


UNIVERSAL PRAYER OF PEACE



**LORD, MAKE ME AN INSTRUMENT OF
YOUR PEACE WHERE THERE IS
HATRED, LET ME BRING LOVE WHERE
THERE IS INJURY. YOUR PARDON
LORD AND WHERE THERE IS DOUBT.
TRUE FAITH IN YOU MAKE ME AN
INSTRUMENT OF YOUR PEACE WHERE
THERE IS DISCOURAGEMENT, LET ME
BRING HOPE WHERE THERE IS
DARKNESS, LET ME BRING LIGHT AND
WHERE THERE IS SADNESS, LET ME
BRING JOY MAKE ME AN
INSTRUMENT OF YOUR PEACE IT IS IN
PARDONING THAT WE ARE
PARDONED IT IS IN GIVING THAT WE
DO RECEIVE, AND IT'S IN DYING WE'
RE BORN TO LIFE...**





ST. JOHN COLLEGE OF ENGINEERING AND MANAGEMENT

VILLAGE VEVOOR, MANOR ROAD, PALGHAR (EAST), PALGHAR DISTRICT - 401 404



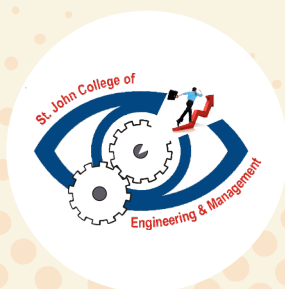
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**ASSOCIATION OF STUDENTS FOR COMPUTING ARTIFICIAL INTELLIGENCE
(ASCAI)**

