



SKCT supports the Sustainable Development Goals

## Sri Krishna College of Technology

An Autonomous Institution  
Affiliated to Anna University and Approved by AICTE  
Accredited by NAAC with 'A' Grade  
KOVAIPUDUR CAMPUS, COIMBATORE - 641 042.

**VOL 25- ISSUE 16**  
**APR 12- APR 19, 2025**

# SKCT DIGEST

THE PRIDE OF OUR REFLECTION

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Don't watch the clock; do what it  
does. Keep going.  
-**Sam Levenson**

## Contact Us

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Coimbatore - 641 042.

## ARTIFICIAL INTELLIGENCE & DATA SCIENCE

### FACULTY PARTICIPATIONS



**Dr K Vimala and Ms Deepa P**, Members of Faculty, completed **“Applied Generative AI Certification”** through Infosys Springboard.



#### CERTIFICATE OF ACHIEVEMENT

The certificate is awarded to

**Vimala K**

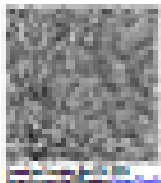
for successfully completing

**Applied Generative AI Certification**

on April 15, 2025



Congratulations! You make us proud!



#### CERTIFICATE OF ACHIEVEMENT

The certificate is awarded to

**Deepa P**

for successfully completing

**Applied Generative AI Certification**

on April 15, 2025



Congratulations! You make us proud!



Innovation Training, April 15, 2025  
Theravally, near the QR code of [Infosys Springboard](#)

  
Thirumala Achi  
Executive Vice President & Global Head  
Education, Training & Assessment (ETA)  
Infosys Limited



## CSE (CYS)

### STUDENTS' PARTICIPATION



**Mr Gopalakrishnan K (Team Leader), Mr Ashok N and Mr Deena R, Students of First B.E. (CyS), participated in CyberStorm 2025 - Mumbai's Largest CTF organized by Google Developer Groups at SIES Graduate School of Technology on 29 March 2025.**



## CSE (CYS)

### STUDENT PARTICIPATION



**Mr Francis S T**, Student of First B.E. (CyS), participated in the “**7-day Cybersecurity Live Training Workshop**” organized by Techpupil during 6-12 April 2025.



## COMPUTER SCIENCE AND ENGINEERING

### PATENT



**Dr M Udhayamoorthi, Assoc. Professor and Head/CSE published a patent on “Smart Solar Tracking System Utilizing IoT and Artificial Intelligence for Enhanced Energy Monitoring and Efficiency Improvement.”**

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202541029656 A

(19) INDIA

(22) Date of filing of Application :28/03/2025

(43) Publication Date : 18/04/2025

(54) Title of the invention : Smart Solar Tracking System Utilizing IoT and Artificial Intelligence for Enhanced Energy Monitoring and Efficiency Improvement.

(51) International classification : G06N022000000, H02S020220000, H04L0067120000, H04W0004380000, G06N0005040000

(86) International Application No : NA

(87) International Filing Date : NA

(61) Patent of Addition to Application Number : NA

(62) Divisional to Application Number : NA

(63) Divisional to Application Number : NA

(64) Divisional to Application Number : NA

(65) Divisional to Application Number : NA

(66) Divisional to Application Number : NA

(67) Divisional to Application Number : NA

(68) Divisional to Application Number : NA

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(90) Divisional to Application Number : NA

(91) Divisional to Application Number : NA

(92) Divisional to Application Number : NA

(93) Divisional to Application Number : NA

(94) Divisional to Application Number : NA

(95) Divisional to Application Number : NA

(96) Divisional to Application Number : NA

(97) Divisional to Application Number : NA

(71) Name of Applicant :

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Address of Applicant :Associate Professor, SNS College of Technology, Saravanampatti

2)Dr Palanikumar Subramanian

3)Mr. Sathesh R

4)Dr. Vijayalakshmi A

5)Dr. Sanil Raj Y

6)Dr. Udhayamoorthi M

7)Mr.Ramesh M

8)Dr. Govindaraj V

Name of Applicant : NA

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Address of Applicant :Assistant Professor / EEE, JCT College of Engineering and Technology , Pichur, Coimbatore - 641105

4)Dr. Vijayalakshmi A

Address of Applicant :Associate Professor/ Department of Electronics and Communication Engineering, Hindusthan College of Engineering and Technology, Coimbatore-641032

5)Dr. Sanil Raj Y

Address of Applicant :Assistant Professor, Department of Data Science, St. Xavier's College (Autonomous), Palayamkottai- 627 002

6)Dr. Udhayamoorthi M

Address of Applicant :Associate Professor/CSE, Sri Krishna College of Technology, Coimbatore-42

7)Mr.Ramesh M

Address of Applicant :Assistant Professor/ECE, Vivekanandha College of Engineering for Women, Tiruchengode- 637503

8)Dr. Govindaraj V

Address of Applicant :Associate Professor, Department of Electronics and Communication Engineering, Kalaignar Karunanidhi Institute of Technology, Kannampalayam(P.O), Coimbatore - 641 402

(37) Abstract :

The Smart Solar Tracking System Utilizing IoT and Artificial Intelligence is an advanced energy optimization solution designed to enhance the efficiency of solar power generation. This system integrates Artificial Intelligence (AI), the Internet of Things (IoT), and real-time energy monitoring to dynamically adjust the orientation of solar panels based on environmental conditions, maximizing solar energy absorption. The tracking mechanism is powered by dual-axis or single-axis motorized actuators, which are controlled using sensor feedback and AI-based optimization algorithms. A comprehensive sensor network, including light sensors, temperature sensors, weather sensors, and energy monitoring modules, continuously gathers data to ensure optimal performance. An IoT-enabled ESP32 microcontroller processes sensor data and executes AI-driven tracking commands. The system leverages machine learning algorithms to predict solar movement patterns, minimize unnecessary motion, and adapt to changing weather conditions. Real-time data transmission via Wi-Fi allows remote monitoring and control through a cloud-based dashboard. Users can access real-time energy analytics, historical performance trends, fault detection alerts, and predictive maintenance insights via a mobile app or web interface.

No. of Pages : 9 No. of Claims : 5

## ELECTRONICS AND COMMUNICATION ENGINEERING

### PLACEMENT



**Mr S Syed Mohammed Ali**, Student of Final B.E. ECE, received the placement offer from **“SPAN Technology Services Private Limited.”**



**SYED MOHAMMED ALI S**

727821TUEC240

**Batch 2021-25/ECE**

for getting Placement offer with



## ELECTRONICS AND COMMUNICATION ENGINEERING

### STUDENTS' INTERNSHIP



Mr V Chandru, Mr M Dhakschin Vishak, Ms V Durga, Ms P G Keerthana, Ms V Kiruthika, Ms R Preetha, Ms V Rohini, Mr K L Velmurugan, Mr N Senthilnathan, Ms P Yuvasri and Mr C Vimal, Students of Third B.E. ECE, received the Internship Offer from “**Accenture.**”



CHANDRU V  
727822TUEC023  
Batch 2022-26/ECE



DURGA V  
727822TUEC034  
Batch 2022-26/ECE



DHAKSHIN VISHAK  
727822TUEC036  
Batch 2022-26/ECE



KEERTHANA P G  
727822TUEC107  
Batch 2022-26/ECE



KIRUTHIKA V  
727822TUEC109  
Batch 2022-26/ECE



PREETHA R  
727822TUEC139  
Batch 2022-26/ECE



ROHINI V  
727822TUEC153  
Batch 2022-26/ECE



VELUMURUGAN K L  
727822TUEC250  
Batch 2022-26/ECE



YUVASRI P  
727822TUEC263  
Batch 2022-26/ECE



SENTHILNATHAN  
727822TUEC209  
Batch 2022-26/ECE



VIMAL C  
727822TUEC254  
Batch 2022-26/ECE

For receiving summer internship offer from

  
**accenture**

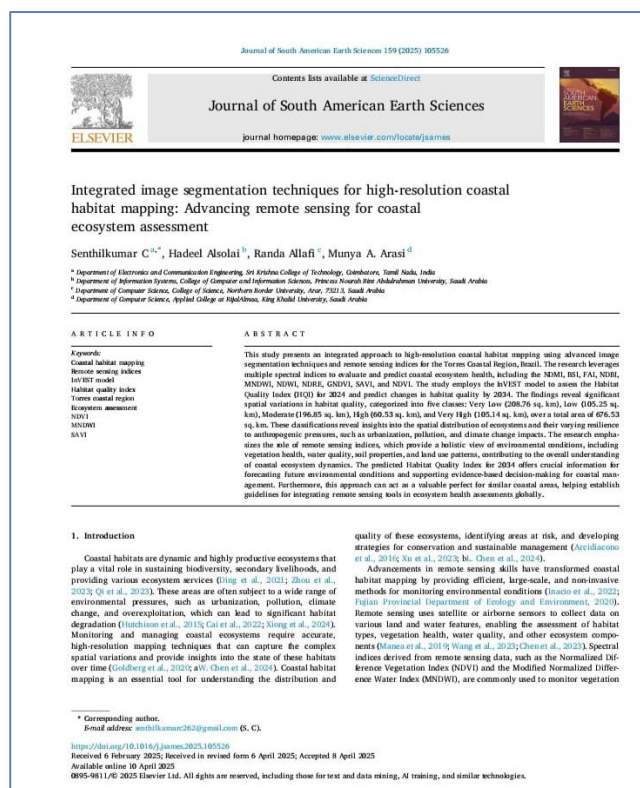


## ELECTRONICS AND COMMUNICATION ENGINEERING

### FACULTY PUBLICATION



**Dr C Senthilkumar**, Assoc. Professor, published a research article on **“Integrated Image Segmentation Techniques for High Resolution Coastal Habitation Mapping : Advancing Remote Sensing for Coastal Ecosystem Assessment”** in the *Journal of South American Earth Sciences*, 2025. (Indexed In SCIE with an Impact factor of 1.7).



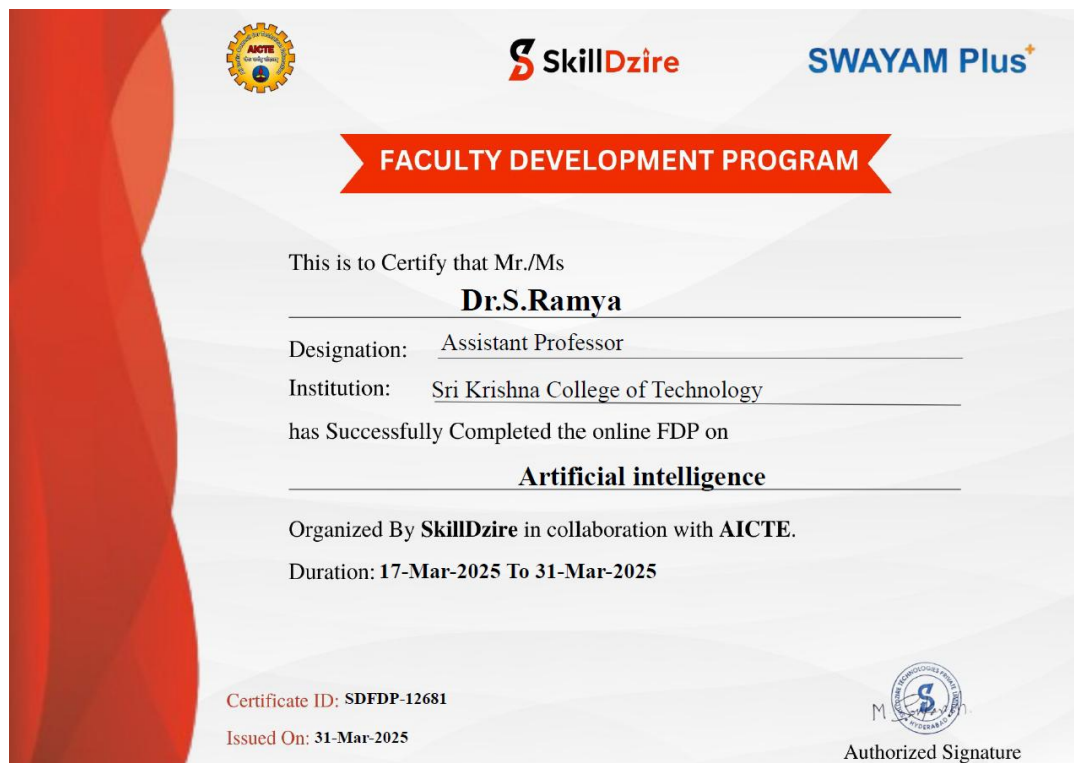


## ELECTRONICS AND COMMUNICATION ENGINEERING

## FACULTY PARTICIPATION



**Dr S Ramya**, Asst. Professor, attended an FDP on “**Artificial Intelligence**” organized by SkillDzire in collaboration with AICTE during 17-31 March 2025.

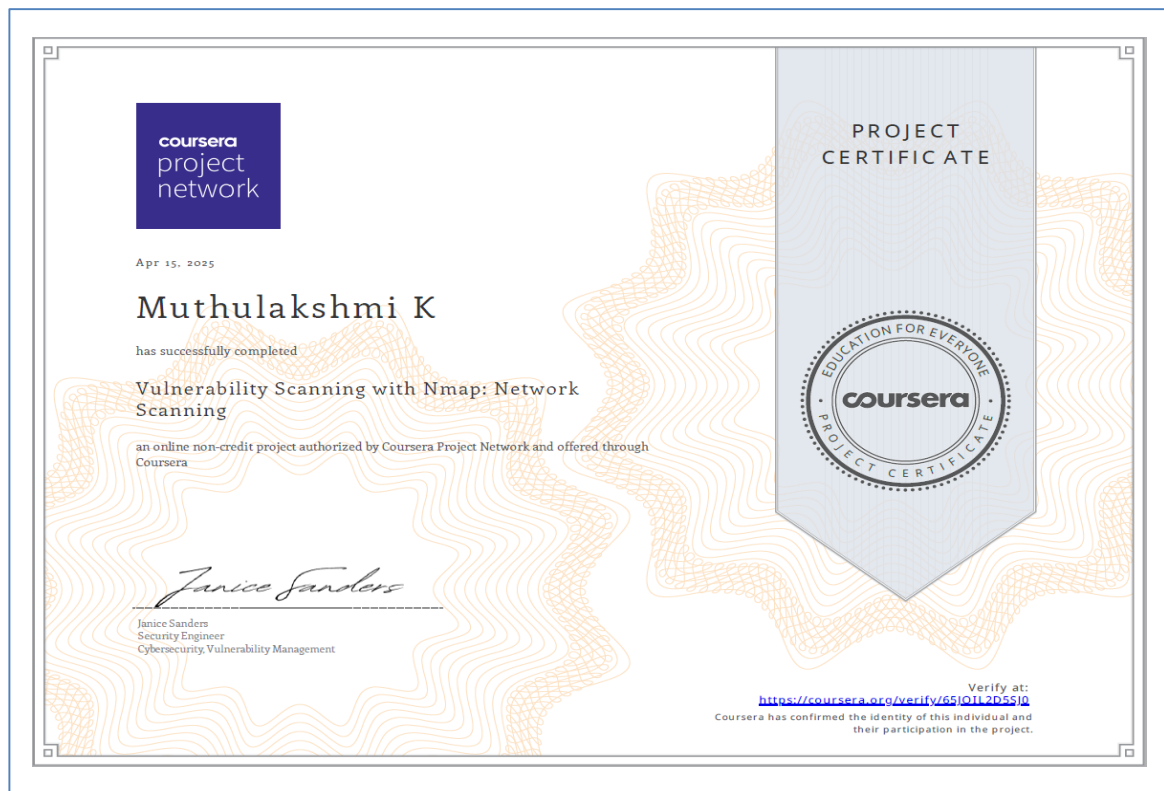


## ELECTRONICS AND COMMUNICATION ENGINEERING

### FACULTY CERTIFICATION



**Dr K Muthulakshmi**, Professor and Head (i/c), completed an online certification course on “**Vulnerability Scanning with Nmap: Network Scanning**” offered through Coursera.



## ELECTRICAL AND ELECTRONICS ENGINEERING

### PUBLICATION



Dr Magdalin Mary D, Asst. Professor, Mr Aswath A R, Ms Monisha M and Mr Mohammed Kaif R, Students of Final B.E. EE, published a research article on **“Solar Powered Wheel Chair with CNN based Gesture Control and Home Automation”** in the Second International Conference on Advancements in Science, Technology and Management (ICASTM-II) 2025 organised by St Xavier’s College of Management and Technology, Patna during 11-12 April 2025.



## ELECTRICAL AND ELECTRONICS ENGINEERING

### STUDENTS' CERTIFICATION



Fifty Students of Second B.E. EEE completed an online certification course on **"Python for Data Science"** with Elite Certification offered through NPTEL.



#### Elite NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**SURYAA SHRE T**  
for successfully completing the course

**Python for Data Science**

with a consolidated score of **64** %

Online Assignments	20.75/25	Proctored Exam	42.97/75
--------------------	----------	----------------	----------

Total number of candidates certified in this course: 15251

Prof. Andrew Thangaraj  
Chair

Centre for Outreach and Digital Education, IITM

Jan-Feb 2025  
(4 week course)



Indian Institute of Technology Madras

Roll No: NPTEL25CS60S443402150

To verify the certificate



No. of credits recommended: 1 or 2

**Python for Data Science**

with a consolidated score of **76** %

Online Assignments	22.08/25	Proctored Exam	54.08/75
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Total number of candidates certified in this course: 15251

Prof. Andrew Thangaraj  
Chair

Centre for Outreach and Digital Education, IITM

Jan-Feb 2025  
(4 week course)



Indian Institute of Technology Madras

Roll No: NPTEL25CS60S343401779

To verify the certificate



No. of credits recommended: 1 or 2

Prof. Vignesh Muthuvijayan  
NPTEL Coordinator  
IIT Madras





## ELECTRICAL AND ELECTRONICS ENGINEERING

### STUDENTS' CERTIFICATION



Forty One Students of Second B.E. EEE completed an online certification course on **"Python for Data Science"** with Elite Certification offered through NPTEL.



#### NPTEL ONLINE CERTIFICATION

(Funded by the MoE, Govt. of India)

This certificate is awarded to  
**VISHAL R**  
for successfully completing the course

**Python for Data Science**

with a consolidated score of **53** %

Online Assignments	21/25	Proctored Exam	31.77/75
--------------------	-------	----------------	----------

Total number of candidates certified in this course: 15251

Prof. Andrew Thangaraj  
Chair

Centre for Outreach and Digital Education, IITM

Jan-Feb 2025  
(4 week course)



Skill India  
कौशल भारत - कुशल भारत



Prof. Vignesh Muthuvijayan  
NPTEL Coordinator  
IIT Madras

**CERTIFICATION**



Skill India  
कौशल भारत - कुशल भारत



Indian Institute of Technology Madras

Roll No: NPTEL25CS60S443403284

To verify the certificate



No. of credits recommended: 1 or 2

**Python for Data Science**

with a consolidated score of **52** %

Online Assignments	21.67/25	Proctored Exam	30/75
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Total number of candidates certified in this course: 15251

Prof. Andrew Thangaraj  
Chair

Centre for Outreach and Digital Education, IITM

Jan-Feb 2025  
(4 week course)

Prof. Vignesh Muthuvijayan  
NPTEL Coordinator  
IIT Madras



Indian Institute of Technology Madras

Roll No: NPTEL25CS60S343406300

To verify the certificate



No. of credits recommended: 1 or 2



Indian Institute of Technology Madras



## ELECTRICAL AND ELECTRONICS ENGINEERING

### STUDENT PARTICIPATION



**Mr Mohammed Irfaan A R**, Student of First B.E. EEE, participated in the “**Entrepreneurship Development Drive**” conducted by Entrepreneurship Cell of IIT Madras during 28 February - 02 March 2025.



## ELECTRICAL AND ELECTRONICS ENGINEERING

### PLACEMENT



## INTERNSHIP SPOTLIGHT

EEE



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*Congratulates*



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Batch 2022-26/EEE



GOWRI S  
727822TUEE031  
Batch 2022-26/EEE



DURGA POORANI M  
727822TUEE026  
Batch 2022-26/EEE



MOHAMED AARIF A  
727822TUEE033  
Batch 2022-26/EEE



NISHANTHI R  
727822TUEE113  
Batch 2022-26/EEE



THOLKAPPIYAN G  
727822TUEE154  
Batch 2022-26/EEE



VISHAL R  
727822TUEE159  
Batch 2022-26/EEE

For receiving summer Internship Offer from

>  
**accenture**



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## ELECTRICAL AND ELECTRONICS ENGINEERING

### PLACEMENT



### PLACEMENT SPOTLIGHT



EEE

### Sri Krishna College of Technology

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*Congratulates*



**SHWETHA M**

727822TUEE140

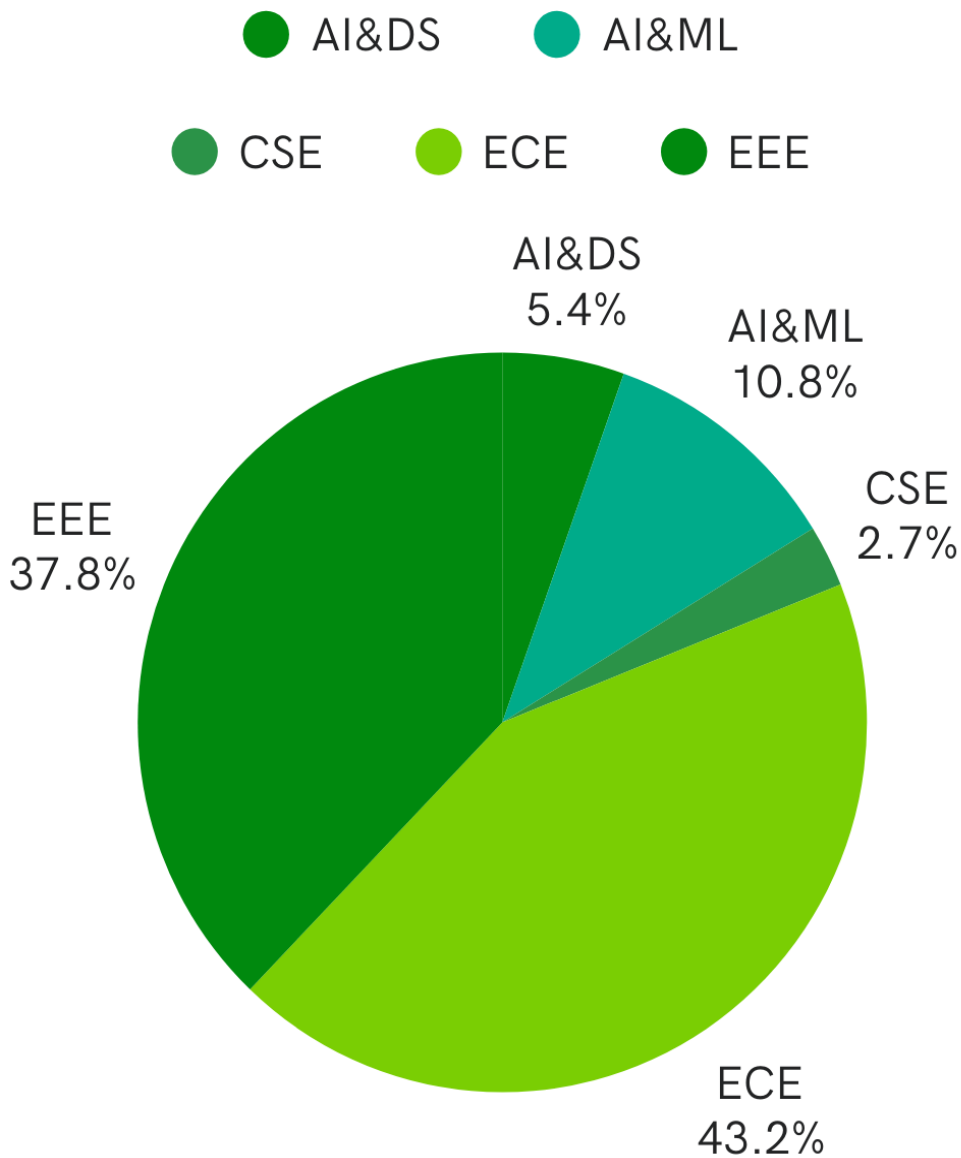
**Batch 2022-26/EEE**

**For Getting Placement offer with**





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