



St. JOSEPH'S INSTITUTE OF TECHNOLOGY

We Make You Shine

(AN AUTONOMOUS INSTITUTION)

OMR, CHENNAI - 119



NEWSLETTER

DECEMBER 2024

ISSUE 12



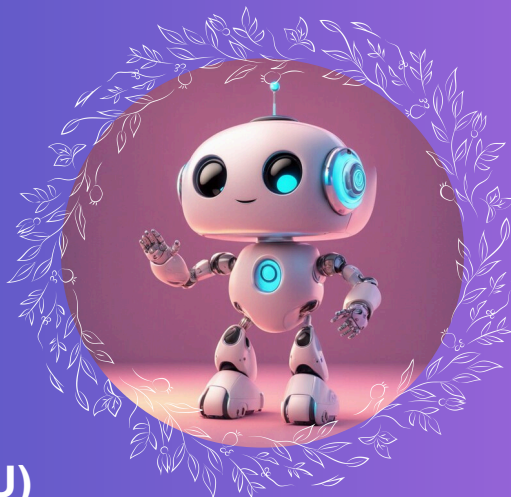
DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE



IMAGINE, INNOVATE, IGNITE WITH AI

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STUDENT ACHIEVEMENTS



The Department of Artificial Intelligence and Data Science proudly congratulates III Year students **Joshva D, Anto Rahul A, Vimal raj R, Vethika Venkatraman, Rohitha R, Balasubramanian M** for Completed the Networking Basics Course in Cisco.

STUDENT ACHIEVEMENTS





THIS IS TO CERTIFY THAT

Vimalraj

HAS SUCCESSFULLY COMPLETED

Java Bootcamp

FROM 25 NOVEMBER 2024 TO 27 NOVEMBER 2024
(3 Days)

IN COLLABORATION WITH





DATE OF ISSUE: 1 DECEMBER 2024
CERTIFICATE NO: LUE3AVANOV124856
WWW.LETSUPGRADE.IN/VERIFY



THIS IS TO CERTIFY THAT

Balasubramanian M

HAS SUCCESSFULLY COMPLETED

GenAI 101 with Pieces

FROM 17 DECEMBER 2024 TO 17 DECEMBER 2024
(1 Days)

IN COLLABORATION WITH





DATE OF ISSUE: 17 DECEMBER 2024
CERTIFICATE NO: LUEGENDEC124184
WWW.LETSUPGRADE.IN/VERIFY



THIS IS TO CERTIFY THAT

Gowtham D

HAS SUCCESSFULLY COMPLETED

React Bootcamp

FROM 2 DECEMBER 2024 TO 4 DECEMBER 2024
(3 Days)

IN COLLABORATION WITH





DATE OF ISSUE: 4 DECEMBER 2024
CERTIFICATE NO: LUERJSDC124168
WWW.LETSUPGRADE.IN/VERIFY



THIS IS TO CERTIFY THAT

Clement Chriswin V

HAS SUCCESSFULLY COMPLETED

React Bootcamp

FROM 2 DECEMBER 2024 TO 4 DECEMBER 2024
(3 Days)

IN COLLABORATION WITH





DATE OF ISSUE: 4 DECEMBER 2024
CERTIFICATE NO: LUERJSDC124194
WWW.LETSUPGRADE.IN/VERIFY

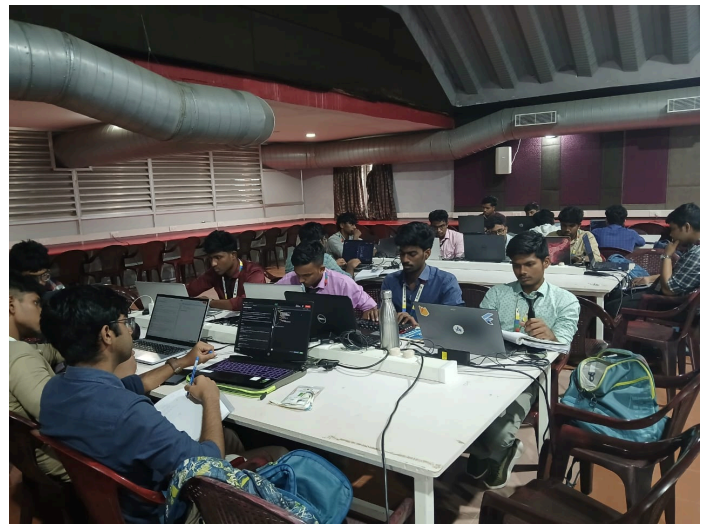
Vimalraj R, II-year ADS student, has successfully completed the Java Bootcamp. **Gowtham D** and **Clement Chriswin V**, also from the III-year ADS, have successfully completed the React Bootcamp. **Balasubramanian M**, of III-year ADS student, has completed GenAI 101 with Pieces, showcasing his interest in generative AI technologies.

STUDENT ACHIEVEMENTS



Students **Gopisetty Pardhavika, Joshva D** of II Year ADS have successfully completed guided paths in Code 360 by Coding Ninjas. These structured programs enhanced their coding proficiency and problem-solving skills, preparing them for real-world challenges. Their achievement highlights the department's focus on fostering technical excellence and career readiness.

STUDENT ACHIEVEMENTS



Our third-year ADS student, Vethika, who is the Student Ambassador of GeeksforGeeks, organized St. Joseph's GeeksforGeeks CodeQuest. The event saw participation from over 270 students, who competed to assess their coding levels. The top three winners will receive T-shirts and laptop bags, sponsored by GeeksforGeeks, in recognition of their exceptional coding skills.

Student Paper Publications



Final Year student Bharathwaj R, Kesavan M presented their paper in Electronics Systems(ICCES 2024),Coimbatore on 16-18 December 2024, S Govindaraj presented his paper in 5th International Conference on IoT Based Control Networks and Intelligent Systems(ICICNIS 2024) on 17th and 18th December 2024 at Bengaluru. Christina Evangline K presented her paper on 3rd International Conference on Advances in Computing Communication and Materials(ICACCM 2024) on 22nd - 23rd November at Dehradun. Priyadharshini V presented her paper in IEEE International Conference on Communication, Computing, Smart Materials & Devices on 19th and 20th December 2024 at Anna University Chennai. R Saranya, Abinaya A, Monika A and Prema Sree A S presented their paper in 5th International Conference on Data Intelligence and Cognitive Informatics(ICIDICI 2024) at Cheranmahadevi. Their work, spanning cutting-edge topics, was highly appreciated by experts and peers. This achievement highlights the department's focus on research excellence and academic contributions.

STUDENT PAPER PUBLICATIONS



Final Year Students Jayasurya PS, Vijay Karthick M, and Harini T III year student presented their paper in 3rd International Conference on Advances in Computing Communication and Materials(ICACCM 2024) on 22nd – 23rd November at Dehradun. Jeevia Harshini M of II Year has presented their paper in 7th International Conference on Recent Trends in Advanced Computing (ICRTAC'24) on 14th – 15th November at VIT Chennai. Their work, spanning cutting-edge topics, was highly appreciated by experts and peers. This achievement highlights the department's focus on research excellence and academic contributions.

STUDENT INTERNSHIP



Joshva D, Gopisetty Pardhavika and Vimalraj R of II Year from the Department of Artificial Intelligence and Data Science have successfully completed their internship at Agirva. During the program, they gained hands-on experience, applied their technical knowledge to real-world projects, and honed their professional skills. Their accomplishment reflects the department's commitment to bridging academic learning with industry exposure.

STUDENT INTERNSHIP



Gopisetty Pardhavika of II Year from the Department of Artificial Intelligence and Data Science **successfully** completed an internship through Internshala, earning a stipend of ₹2,000/-. This achievement showcases her dedication, technical skills, and ability to excel in a professional setting. It highlights the department's focus on nurturing industry-ready talent.

STUDENT INTERNSHIP



St. JOSEPH'S
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Department of Artificial Intelligence and Data Science

Congratulations

INTERN AT



ADRIG AI
Technologies



Stipend
Rs.12,000/-
Per month

Mr. Krithik Srinivas
(Batch 2022 - 2026)

FULL STACK DEVELOPER
ADRIG AI Technologies



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The Choice of
Disciplined Toppers

The Department of Artificial Intelligence and Data Science congratulates **Mr. Krithik Srinivas** of III-year student has secured an internship as a **Full Stack Developer** at **ADRIG AI Technologies**, with a stipend of **₹12,000/-**. This opportunity marks a significant step in his professional development, showcasing his skills and potential in the field of software development.

MY GOV - QUIZ CERTIFICATIONS

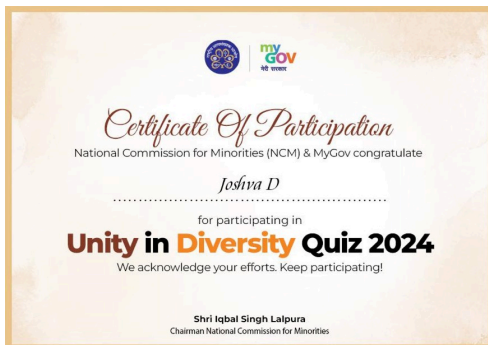
**II Year
ADS**



II Year Students Joshva D, Gopisetty Pardhavika, Shamila O from Our Department of Artificial Intelligence and Data Science have successfully completed the MyGov Quiz, demonstrating their knowledge and enthusiasm for national initiatives. Their active participation reflects the department's dedication to holistic learning and civic engagement.

MY GOV - QUIZ CERTIFICATIONS

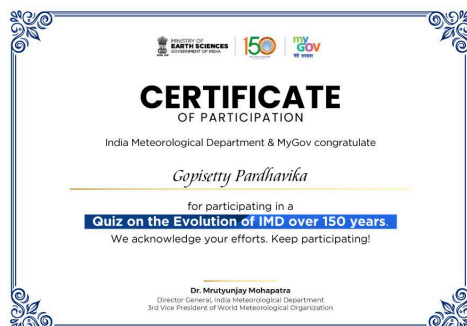
**II Year
ADS**



II Year Students Gopisetty Pardhavika, Joshva D, Vimalraj R from Our Department of Artificial Intelligence and Data Science have successfully completed the MyGov Quiz, demonstrating their knowledge and enthusiasm for national initiatives. Their active participation reflects the department's dedication to holistic learning and civic engagement.

MY GOV - QUIZ CERTIFICATIONS

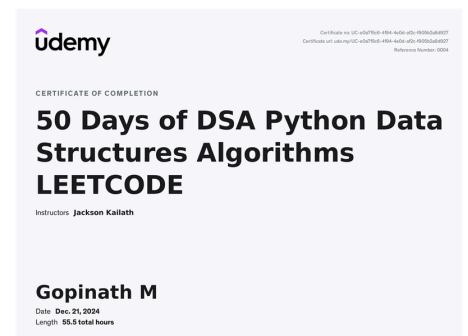
**II Year
ADS**



II Year Students Joshva D, Gopisetty Pardhavika, Sharmila O from Our Department of Artificial Intelligence and Data Science have successfully completed the MyGov Quiz, demonstrating their knowledge and enthusiasm for national initiatives. Their active participation reflects the department's dedication to holistic learning and civic engagement.



STUDENT CERTIFICATIONS



Students **Gowtham D**, **Kishore A**, **Clement Chriswin**, **Gopinath M**, **Stalin S**, **Ayana justin**, **Saranya Sankarapandian** from the Department of Artificial Intelligence and Data Science have successfully completed courses on prestigious platforms like GUVI, Unstop, Udemy, Coursera, Infosys, and TryHackMe. These certifications have honed their skills in diverse domains, showcasing their commitment to continuous learning and industry readiness.

STUDENT CERTIFICATIONS



JOSHVA D of II year ADS has participated in the 'CodeQuezt Contest: Data Structures and Algorithm' hosted by Naukri Campus, reflecting coding skills.

Gopisetty Pardhavika of II year ADS has participated in the 'Bizquezt #14: 'Supply Chain Management' hosted by Naukri Campus, reflecting coding skills.

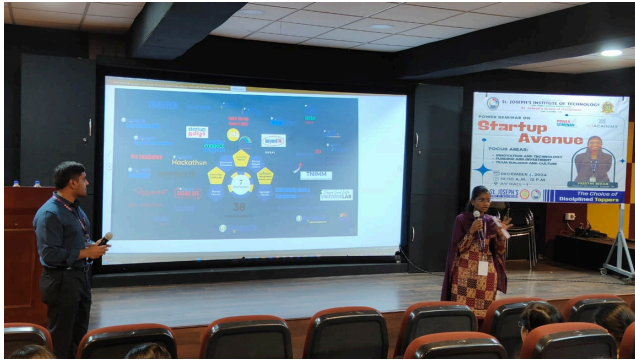


SMART INDIA HACKATHON - 2024



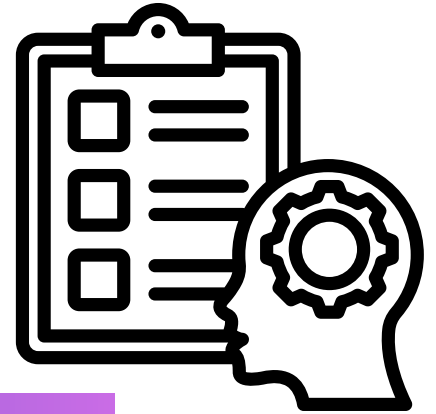
III Year student **Santhosh I**[Team Lead], **Raghul C** , **Krithik Srinivas K**, **Abina Sri K**, **Harshini K N**, **Darshana Kiruthika K V** from Our Department of Artificial Intelligence and Data Science participated in the prestigious Smart India Hackathon 2024 held on 11/12/2024 and 12/12/2024 in Chhattisgarh, Raipur. They presented innovative solutions to real-world challenges, demonstrating creativity and technical expertise. Their active involvement highlights the department's focus on fostering problem-solving skills and innovation. The students' dedication and teamwork earned appreciation from judges and peers alike.

POWER SEMINAR



Our Department of Artificial Intelligence and Data Science organized a Power Seminar on "Startup Avenue" in collaboration with ICT Academy on **December 6, 2024**. The seminar provided students with valuable insights into entrepreneurial strategies and startup ecosystems. Esteemed speakers **Aniruth**, **Preethi Sivan** shared real-world experiences, inspiring attendees to explore innovation and business opportunities. The event reinforced the department's commitment to nurturing future entrepreneurs.

SEERA CLASSES

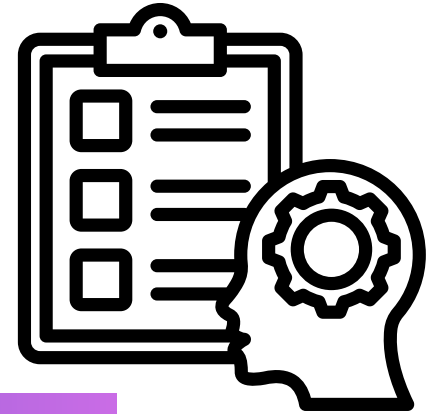


DATE : 04.12.24



On **December 04, 2024** Seera classes were held for our III Year ADS students. The training sessions were categorized into targeted areas, including **High package placement, ABHS and communication**. This focused approach aimed to equip students with essential skills and prepare them for their upcoming career challenges and opportunities.

SEERA CLASSES



DATE : 18.12.24



On **December 18, 2024** Seera classes were held for our III Year ADS students. The training sessions were categorized into targeted areas, including **aptitude, programming, and communication skills**. This focused approach aimed to equip students with essential skills and prepare them for their upcoming career challenges and opportunities.



SkillRack Toppers

Final Year(2021-2025)

S.NO	Name	Programs Solved	Bronze	SkillRack Rank
1	SRIHARI R	2258	1317	1494
2	DHANESH C	2098	1065	1963
3	KIRUTHIKA P	1277	366	8860
4	RINITH Y	1172	536	11211
5	LEO S	1156	603	11739

Third Year (2022-2026)

S.No	Name	Programs Solved	Bronze	SkillRack Rank
1	YADAV PRASAD G B	2343	1196	1309
2	KATHIRAVAN B	1995	990	2353
3	PRAVEEN S	1884	969	2822
4	BALASUBRAMANIAN M	1486	546	5902
5	LANKESH M	1350	657	7772

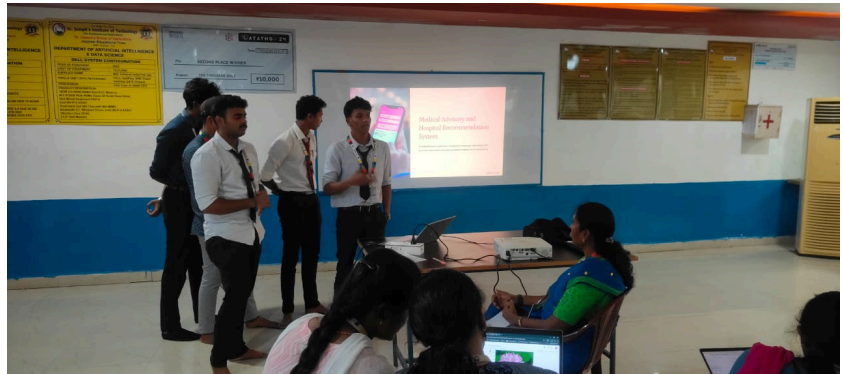
Second Year(2023-2027)

S.No	Name	Programs Solved	Bronze	SkillRack Rank
1	MARIA PETER RUFIN M	1726	477	3638
2	RISHINI DHARAN T	1649	499	4185
3	SABARISH S	1613	418	4478
4	ROHITSURYA AKRIAMMAN THANIGAIMALAI	1597	488	4655
5	INFANT JOEL E	1512	363	5534

Our students have consistently excelled in coding and problem-solving on SkillRack, securing the top five positions. Their dedication to upskilling has truly paid off. Congratulations to all our achievers for this outstanding accomplishment!

CLUB ACTIVITIES

AI CLUB



First Place	Second Place	Third Place
Prakash S Karthikeyan P Lingess Rathinavel Meganathan V Nizam Aashiq I	Velan Sugrish Vishagan Darshana Kiruthika K V	Mohammed Habib S Merish M Jayashree M John Wesley L



Our third-year 25 students actively participated in the AI Project Presentation event organized by the AI Club on 20/12/24. The event was conducted under the guidance of the Team Lead, Sabarreswaran, and supported by faculty members Mrs. R. Abirami, Mr. K. Venkatesan, and Mrs. P. George Princess.

The students showcased innovative AI projects, demonstrating their creativity and technical skills. Prizes were awarded to students for their outstanding presentations, recognizing their efforts and excellence in project execution.

CLUB ACTIVITIES

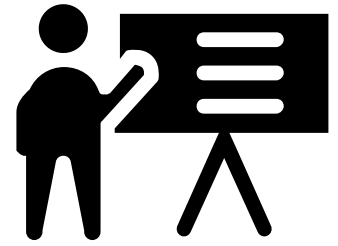
[UI/UX CLUB]



First Place	Second Place	Third Place
Clement Chriswin V Arockia Franciska W	Joyner John Raj Madhu Varshini V	Krithika D H Keerthiya T

Our third-year 30 students actively participated in the UI/UX Design event organized by the UI/UX Club on 12/12/2024. The event was led by Joshwa B, the Team Lead, with guidance and support from faculty members Mrs. R. Archana, and Mr. P. Vinoth Kumar.

The students presented innovative UI and UX designs, showcasing their creativity and technical expertise. Prizes were awarded to students for exceptional presentations, recognizing their dedication and excellence in design execution.



EXPERT TALK


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DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

EXPERT TALK <<<<

MACHINE LEARNING : SIMPLE LINEAR REGRESSION WITH GRADIENT DESCENT





Mr. VIJAY MURUGADOSS
CEO & FOUNDER
ADRIG AI TECHNOLOGIES



DATE
20 Dec 2024



TIME
9:40 AM - 11:40 AM



VENUE
AV HALL 1



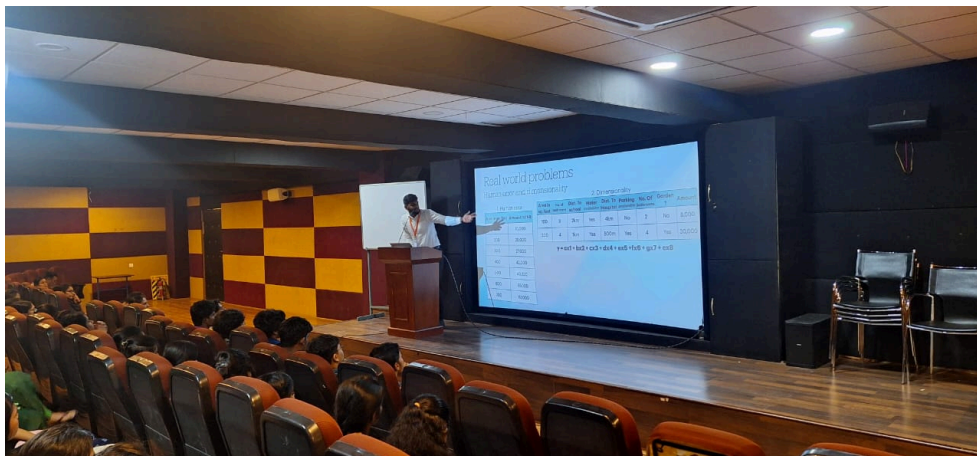
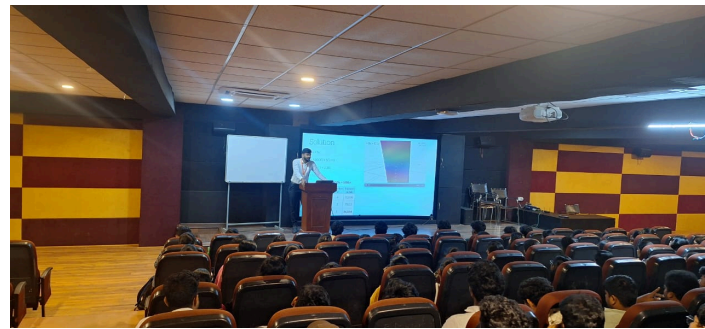
III YEAR ADS


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The Choice of

Disciplined Toppers



On December 20, 2024, our department organized an Expert Talk on Machine Learning: Simple Linear Regression with Gradient Descent, delivered by **Mr. Vijay Murugadoss**, the CEO and Founder of **ADRIG AI Technologies**. The session provided valuable insights into the fundamentals of linear regression and its optimization through gradient descent, offering students a practical understanding of these essential machine learning concepts.

MEMORANDUM OF UNDERSTANDING (MOU)


St. JOSEPH'S INSTITUTE OF TECHNOLOGY
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 OMR, CHENNAI - 119
 

DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE

MOU SIGNED

WITH ADRIG AI TECHNOLOGIES

20/12/2024









OUTCOME :

- WORKSHOPS
- VALUE ADDED COURSES
- INTERNSHIPS
- PLACEMENTS
- MENTORING HACKATHON


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The Choice of
Disciplined Toppers

The Department of Artificial Intelligence and Data Science at St. Joseph's Institute of Technology signed a **Memorandum of Understanding (MoU)** with **ADRIG AI Technologies Pvt. Ltd** on 20/12/2024. This collaboration opens the door to numerous opportunities for students, including workshops, value-added courses, internships, placements, and mentoring for hackathons, fostering a strong industry-academia connection to enhance learning and career development.

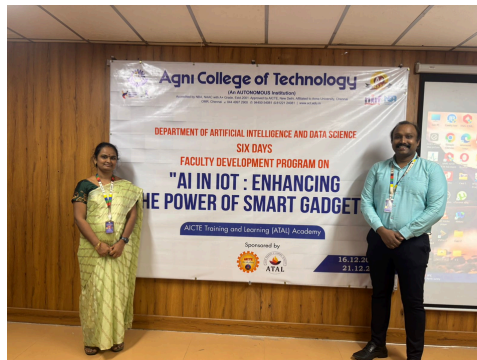
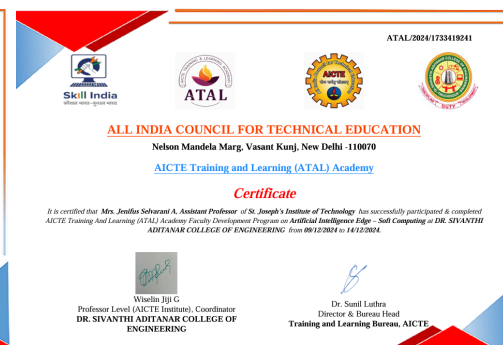
Faculty Paper Publications



Our Faculty members **Dr. R Priscilla** and **Mrs. J Gold Beulah** has presented their paper in **7th International Conference on Recent Trends in Advanced Computing (ICRTAC'24)** on **14th - 15th November** at **VIT Chennai**. **Mrs. M. Praba** and **Mrs. M Revathi** presented their paper in **5th International Conference on IoT Based Control Networks and Intelligent Systems (ICICNIS 2024)** on **17th and 18th December 2024** at **Bengaluru**. **Mrs. J Gold Beulah** presented her paper in **3rd International Conference on Advances in Computing Communication and Materials (ICACCM 2024)** on **22nd - 23rd November** at **Dehradun**. **Mrs. P George Princess** presented paper in **1st International conference on Artificial Intelligence, Device Computing, Communication and Signal Processing (AIDCCSP-2024)** held on **20-22 December 2024** at **Hamirpur**.



FACULTY DEVELOPMENT PROGRAM



Faculty members **Dr. A. V Allin Geo**, **Mrs. M Revathi**, **Mrs. A Jenifus Selvarani**, **Mr. P Vinoth Kumar** from Our Department of Artificial Intelligence and Data Science actively participated in Faculty Development Programs conducted by AICTE Training and Learning Academy and the National Institute of Technical Teachers and Research. These programs provided advanced training in pedagogy and emerging technologies, fostering academic excellence. Their participation reflects the department's dedication to continuous professional growth and quality education.



FACULTY DEVELOPMENT PROGRAM



Faculty members **Mrs. J Suba** from our Department of Artificial Intelligence and Data Science participated in Faculty Development Programs organized by Panimalar Engineering College, and our Faculty members **Mrs. P George Princess, Mr. P Vinodh Kumar and Mr. R Venkatesan** attended the Product Development Program at National Institute of Technical Teachers Training Institute and Research Chennai. These sessions focused on industry-aligned methodologies and emerging trends in technology. Their engagement underscores the department's commitment to fostering innovation and enhancing teaching excellence.

Patent Publications



(1) Project Application Publication Information		(2) Application Date: 2019/03/06
(19) PDA		(4) Publication Date: 2019/03/26
(20) Publication Information		(5) Publication Date: 2019/03/26
(6) Title of the invention: EDGE-BASED MACHINE LEARNING FOR PREDICTING MAINTENANCE IN IoT SYSTEMS		
(7) Name of Applicant (1) Applicant's Name		
(8) Applicant's Address		
(9) Applicant's Country		
(10) Applicant's Representative		
(11) Inventor's Name		
(12) Inventor's Address		
(13) Inventor's Country		
(14) Inventor's Representative		
(15) Priority of Invention		
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(93) Priority of Invention		

The Patent Office Journal No. 48/2024 Dated 29/11/2024

112359

Mr. Varalakshmi K

Assistant Professor, Department of Artificial Intelligence and Data Science

Mrs.Varalakshmi K, has made a significant contribution to the field of healthcare technology. She has recently published a patent application on a **EDGE -BASED MACHINE LEARNING FOR PREDICTIVE MAINTENANCE IN IOT SYSTEMS**. This innovative approach aims to streamline the complex and often time-consuming processes involved in medical coding and billing by leveraging advanced AI techniques to automatically interpret and categorize medical data from clinical documents.

Patent Details:

Patent Title: EDGE -BASED MACHINE LEARNING FOR PREDICTIVE MAINTENANCE IN IOT SYSTEMS.

Application Number: 202441091656

Date of Publication: 29th November 2024

Patent Publications



(2) PAPER APPLICATION FOR PUBLICATION		(23) Author's Name	Dr. Sridharan A. S.
(1) PAPER		(24) Publication Date	2024/04/08 A758
(21) Date of Publication	17/12/2024	(25) Publication Date	2024/03/24
(26) Title of the Invention: AI-DRIVEN FAULT DETECTION AND DIAGNOSTIC SYSTEMS FOR ROTARY DEVICES IN INDUSTRIAL NETWORKS			
		(27) Name of Applicant	1. Dr. R. S. Sujia 2. Dr. S. Sridharan Address of Applicant: Sreejith Engineering College of Computer Science, P.O. Box 100222, Kottayam, Kottayam District, Kerala Pincode: 686 022
		(28) Name of Invention	3. 2024a. <i>Method for</i> 4. <i>Real-time Fault Detection and</i> 5. <i>Diagnosis in Industrial Rotating</i> 6. <i>Systems Using AI and Sensor</i> 7. <i>Networks</i> 8. <i>Integration</i> 9. <i>of IoT and Machine Learning</i> 10. <i>for Predictive Maintenance</i> 11. <i>in Industrial Rotating</i> 12. <i>Equipment</i> 13. <i>Using AI and Sensor</i> 14. <i>Networks</i> 15. <i>Integration</i> 16. <i>of IoT and Machine Learning</i> 17. <i>for Predictive Maintenance</i> 18. <i>in Industrial Rotating</i> 19. <i>Equipment</i>
		(29) Name of Invention	20. <i>Method for</i> 21. <i>Real-time Fault Detection and</i> 22. <i>Diagnosis in Industrial Rotating</i> 23. <i>Systems Using AI and Sensor</i> 24. <i>Networks</i> 25. <i>Integration</i> 26. <i>of IoT and Machine Learning</i> 27. <i>for Predictive Maintenance</i> 28. <i>in Industrial Rotating</i> 29. <i>Equipment</i>
		(30) Name of Invention	31. <i>Method for</i> 32. <i>Real-time Fault Detection and</i> 33. <i>Diagnosis in Industrial Rotating</i> 34. <i>Systems Using AI and Sensor</i> 35. <i>Networks</i> 36. <i>Integration</i> 37. <i>of IoT and Machine Learning</i> 38. <i>for Predictive Maintenance</i> 39. <i>in Industrial Rotating</i> 40. <i>Equipment</i>
		(31) International Classification	41. <i>Method for</i> 42. <i>Real-time Fault Detection and</i> 43. <i>Diagnosis in Industrial Rotating</i> 44. <i>Systems Using AI and Sensor</i> 45. <i>Networks</i> 46. <i>Integration</i> 47. <i>of IoT and Machine Learning</i> 48. <i>for Predictive Maintenance</i> 49. <i>in Industrial Rotating</i> 50. <i>Equipment</i>
		(32) International Classification	51. <i>Method for</i> 52. <i>Real-time Fault Detection and</i> 53. <i>Diagnosis in Industrial Rotating</i> 54. <i>Systems Using AI and Sensor</i> 55. <i>Networks</i> 56. <i>Integration</i> 57. <i>of IoT and Machine Learning</i> 58. <i>for Predictive Maintenance</i> 59. <i>in Industrial Rotating</i> 60. <i>Equipment</i>
		(33) International Classification	61. <i>Method for</i> 62. <i>Real-time Fault Detection and</i> 63. <i>Diagnosis in Industrial Rotating</i> 64. <i>Systems Using AI and Sensor</i> 65. <i>Networks</i> 66. <i>Integration</i> 67. <i>of IoT and Machine Learning</i> 68. <i>for Predictive Maintenance</i> 69. <i>in Industrial Rotating</i> 70. <i>Equipment</i>
		(34) International Classification	71. <i>Method for</i> 72. <i>Real-time Fault Detection and</i> 73. <i>Diagnosis in Industrial Rotating</i> 74. <i>Systems Using AI and Sensor</i> 75. <i>Networks</i> 76. <i>Integration</i> 77. <i>of IoT and Machine Learning</i> 78. <i>for Predictive Maintenance</i> 79. <i>in Industrial Rotating</i> 80. <i>Equipment</i>
		(35) International Classification	81. <i>Method for</i> 82. <i>Real-time Fault Detection and</i> 83. <i>Diagnosis in Industrial Rotating</i> 84. <i>Systems Using AI and Sensor</i> 85. <i>Networks</i> 86. <i>Integration</i> 87. <i>of IoT and Machine Learning</i> 88. <i>for Predictive Maintenance</i> 89. <i>in Industrial Rotating</i> 90. <i>Equipment</i>
		(36) International Classification	91. <i>Method for</i> 92. <i>Real-time Fault Detection and</i> 93. <i>Diagnosis in Industrial Rotating</i> 94. <i>Systems Using AI and Sensor</i> 95. <i>Networks</i> 96. <i>Integration</i> 97. <i>of IoT and Machine Learning</i> 98. <i>for Predictive Maintenance</i> 99. <i>in Industrial Rotating</i> 100. <i>Equipment</i>
		(37) International Classification	101. <i>Method for</i> 102. <i>Real-time Fault Detection and</i> 103. <i>Diagnosis in Industrial Rotating</i> 104. <i>Systems Using AI and Sensor</i> 105. <i>Networks</i> 106. <i>Integration</i> 107. <i>of IoT and Machine Learning</i> 108. <i>for Predictive Maintenance</i> 109. <i>in Industrial Rotating</i> 110. <i>Equipment</i>
		(38) International Classification	111. <i>Method for</i> 112. <i>Real-time Fault Detection and</i> 113. <i>Diagnosis in Industrial Rotating</i> 114. <i>Systems Using AI and Sensor</i> 115. <i>Networks</i> 116. <i>Integration</i> 117. <i>of IoT and Machine Learning</i> 118. <i>for Predictive Maintenance</i> 119. <i>in Industrial Rotating</i> 120. <i>Equipment</i>
		(39) International Classification	121. <i>Method for</i> 122. <i>Real-time Fault Detection and</i> 123. <i>Diagnosis in Industrial Rotating</i> 124. <i>Systems Using AI and Sensor</i> 125. <i>Networks</i> 126. <i>Integration</i> 127. <i>of IoT and Machine Learning</i> 128. <i>for Predictive Maintenance</i> 129. <i>in Industrial Rotating</i> 130. <i>Equipment</i>
		(40) International Classification	131. <i>Method for</i> 132. <i>Real-time Fault Detection and</i> 133. <i>Diagnosis in Industrial Rotating</i> 134. <i>Systems Using AI and Sensor</i> 135. <i>Networks</i> 136. <i>Integration</i> 137. <i>of IoT and Machine Learning</i> 138. <i>for Predictive Maintenance</i> 139. <i>in Industrial Rotating</i> 140. <i>Equipment</i>
		(41) International Classification	141. <i>Method for</i> 142. <i>Real-time Fault Detection and</i> 143. <i>Diagnosis in Industrial Rotating</i> 144. <i>Systems Using AI and Sensor</i> 145. <i>Networks</i> 146. <i>Integration</i> 147. <i>of IoT and Machine Learning</i> 148. <i>for Predictive Maintenance</i> 149. <i>in Industrial Rotating</i> 150. <i>Equipment</i>
		(42) International Classification	151. <i>Method for</i> 152. <i>Real-time Fault Detection and</i> 153. <i>Diagnosis in Industrial Rotating</i> 154. <i>Systems Using AI and Sensor</i> 155. <i>Networks</i> 156. <i>Integration</i> 157. <i>of IoT and Machine Learning</i> 158. <i>for Predictive Maintenance</i> 159. <i>in Industrial Rotating</i> 160. <i>Equipment</i>
		(43) International Classification	161. <i>Method for</i> 162. <i>Real-time Fault Detection and</i> 163. <i>Diagnosis in Industrial Rotating</i> 164. <i>Systems Using AI and Sensor</i> 165. <i>Networks</i> 166. <i>Integration</i> 167. <i>of IoT and Machine Learning</i> 168. <i>for Predictive Maintenance</i> 169. <i>in Industrial Rotating</i> 170. <i>Equipment</i>
		(44) International Classification	171. <i>Method for</i> 172. <i>Real-time Fault Detection and</i> 173. <i>Diagnosis in Industrial Rotating</i> 174. <i>Systems Using AI and Sensor</i> 175. <i>Networks</i> 176. <i>Integration</i> 177. <i>of IoT and Machine Learning</i> 178. <i>for Predictive Maintenance</i> 179. <i>in Industrial Rotating</i> 180. <i>Equipment</i>
		(45) International Classification	181. <i>Method for</i> 182. <i>Real-time Fault Detection and</i> 183. <i>Diagnosis in Industrial Rotating</i> 184. <i>Systems Using AI and Sensor</i> 185. <i>Networks</i> 186. <i>Integration</i> 187. <i>of IoT and Machine Learning</i> 188. <i>for Predictive Maintenance</i> 189. <i>in Industrial Rotating</i> 190. <i>Equipment</i>
		(46) International Classification	191. <i>Method for</i> 192. <i>Real-time Fault Detection and</i> 193. <i>Diagnosis in Industrial Rotating</i> 194. <i>Systems Using AI and Sensor</i> 195. <i>Networks</i> 196. <i>Integration</i> 197. <i>of IoT and Machine Learning</i> 198. <i>for Predictive Maintenance</i> 199. <i>in Industrial Rot</i>

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Mrs. S. Saranya
Assistant Professor, Department of Artificial Intelligence and Data Science

Mrs. S. Saranya, has made a significant contribution to the field of healthcare technology. She has recently published a patent application on a **ADVANCED FREQUENCY SYNTHESIZERS FOR ENHANCED COMMUNICATION SYSTEM PERFORMANCE**. This innovative approach aims to streamline the complex and often time-consuming processes involved in medical coding and billing by leveraging advanced AI techniques to automatically interpret and categorize medical data from clinical documents.

Patent Details:

Patent Title: ADVANCED FREQUENCY SYNTHESIZERS FOR ENHANCED COMMUNICATION SYSTEM PERFORMANCE

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(15) INDIAN		(43) Publication Date : 20/12/2024
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(54) Title of the invention : AI-DRIVEN FAULT DETECTION AND DIAGNOSTIC SYSTEM FOR IOT DEVICES IN INDUSTRIAL NETWORKS		
(71) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225		(72) Name of Inventor : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(51) International Classification : G06F11/00, G06F11/07, G06F11/08, G06F11/09, G06F11/10, G06F11/11, G06F11/12, G06F11/13, G06F11/14, G06F11/15, G06F11/16, G06F11/17, G06F11/18, G06F11/19, G06F11/20, G06F11/21, G06F11/22, G06F11/23, G06F11/24, G06F11/25, G06F11/26, G06F11/27, G06F11/28, G06F11/29, G06F11/30, G06F11/31, G06F11/32, G06F11/33, G06F11/34, G06F11/35, G06F11/36, G06F11/37, G06F11/38, G06F11/39, G06F11/40, G06F11/41, G06F11/42, G06F11/43, G06F11/44, G06F11/45, G06F11/46, G06F11/47, G06F11/48, G06F11/49, G06F11/50, G06F11/51, G06F11/52, G06F11/53, G06F11/54, G06F11/55, G06F11/56, G06F11/57, G06F11/58, G06F11/59, G06F11/60, G06F11/61, G06F11/62, G06F11/63, G06F11/64, G06F11/65, G06F11/66, G06F11/67, G06F11/68, G06F11/69, G06F11/70, G06F11/71, G06F11/72, G06F11/73, G06F11/74, G06F11/75, G06F11/76, G06F11/77, G06F11/78, G06F11/79, G06F11/80, G06F11/81, G06F11/82, G06F11/83, G06F11/84, G06F11/85, G06F11/86, G06F11/87, G06F11/88, G06F11/89, G06F11/90, G06F11/91, G06F11/92, G06F11/93, G06F11/94, G06F11/95, G06F11/96, G06F11/97, G06F11/98, G06F11/99		(73) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(52) Priority of Invention : None		(74) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(53) Priority of Invention : None		(75) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(54) Title of the invention : AI-DRIVEN FAULT DETECTION AND DIAGNOSTIC SYSTEM FOR IOT DEVICES IN INDUSTRIAL NETWORKS		(76) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(55) Abstract : The present invention discloses a system for detecting and diagnosing faults in Industrial Internet of Things (IIoT) devices. The system leverages machine learning algorithms, including neural networks and decision trees, to analyze real-time data from IIoT devices and detect anomalies. The system also includes a diagnostic module that provides detailed fault analysis and recommendations for corrective actions. The system is designed to be scalable and adaptable to various industrial environments, ensuring high accuracy and reliability in fault detection and diagnosis.		(77) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(56) Claims : 1. A system for detecting and diagnosing faults in IIoT devices, comprising: a. A data collection module for gathering real-time data from IIoT devices. b. A machine learning module for analyzing the data and detecting anomalies. c. A diagnostic module for providing detailed fault analysis and recommendations. 2. The system of claim 1, wherein the machine learning module includes a neural network and a decision tree.		(78) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(57) Drawings : None		(79) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(58) References : None		(80) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(59) Remarks : None		(81) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(60) Remarks : None		(82) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(61) Remarks : None		(83) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
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(63) Remarks : None		(85) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(64) Remarks : None		(86) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
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(67) Remarks : None		(89) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(68) Remarks : None		(90) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(69) Remarks : None		(91) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(70) Remarks : None		(92) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(71) Remarks : None		(93) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(72) Remarks : None		(94) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
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(74) Remarks : None		(96) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(75) Remarks : None		(97) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(76) Remarks : None		(98) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(77) Remarks : None		(99) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225
(78) Remarks : None		(100) Name of Applicant : Dr. R. S. Saranya Assistant Professor, Department of Computer Applications, Faculty of Science and Humanities, Karnataka Changanacherry, Taty, India - 561225

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Patent Details:

Patent Title: AI-DRIVEN FAULT DETECTION AND DIAGNOSTIC SYSTEM FOR IOT DEVICES IN INDUSTRIAL NETWORKS

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FACULTY ACHIEVEMENTS



Mr. P. Vinoth Kumar attended the 22nd Edition of Connect, hosted by CII Tamil Nadu, on the theme "Artificial Intelligence in Action: Real-World Application in Business" scheduled for December 17-18, 2024, in Chennai.

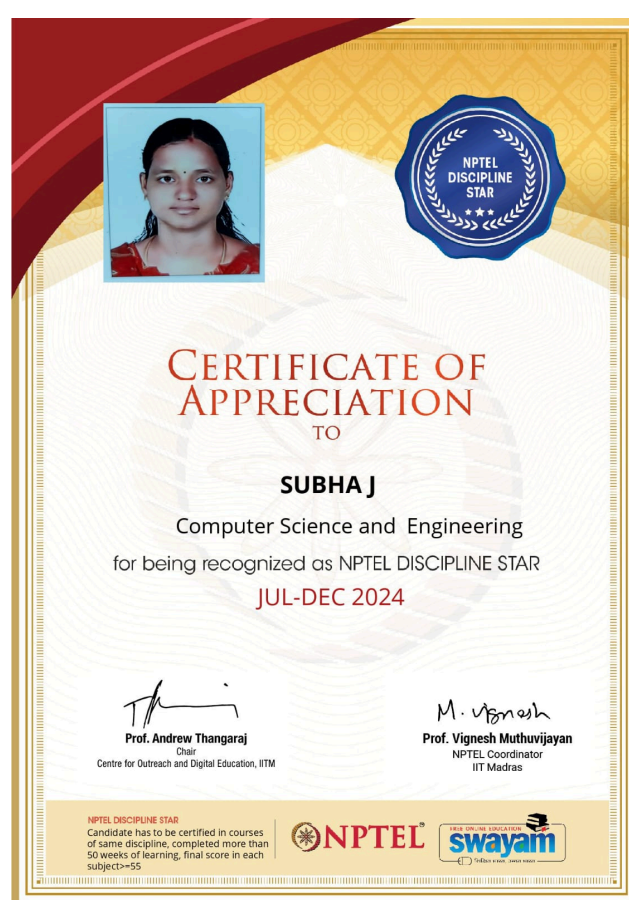
The summit will delve into AI's transformative impact across industries, governance, and society, emphasizing its potential to drive practical applications, address challenges, and create opportunities for a sustainable, technology-driven future.



Our Faculty member **Mrs. J Gold Beulah** from our Department of Artificial Intelligence and Data Science successfully participated & completed **AICTE Training And Learning (ATAL) Academy Faculty Development Program on Recent Developments in IOT** at **SANKAR POLYTECHNIC COLLEGE** from 09/12/2024 to 14/12/2024.



FACULTY ACHIEVEMENTS



Our faculty member, **Mrs. M. Praba**, has successfully cleared the **TalentNext Certification** as a mentor in Project-Based Learning for Database Solution Expert. This achievement highlights her expertise and dedication to fostering innovative, practical learning approaches for students.

Our faculty member, **Mrs. J. Subha**, was honored as an **NPTEL Disciplined STAR** for the July-December 2024 session. This recognition reflects her commitment to excellence in learning and professional development.

EduTech Pioneers

