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**St. JOSEPH'S INSTITUTE OF TECHNOLOGY**  
(An Autonomous Institution)

St. JOSEPH'S GROUP OF INSTITUTIONS  
OMR, CHENNAI - 119



### Department of Artificial Intelligence and Datascience

#### FACULTY DETAILS

<b>Staff Name</b>	:	R. Abirami
<b>Date of Birth</b>	:	09/03/1987
<b>Educational Qualification</b>	:	B.Tech.,M.Tech.,(Ph.D)
<b>Area of Interest</b>	:	Machine Learning, Deep Learning, Statistics in Data Science, Gen AI
<b>Years of Experience</b>	:	12 years
<b>Area of Research</b>	:	Deep Learning
<b>No of Student Projects Guided</b>	:	UG-25
<b>Supervisor</b>	:	-
<b>FDP &amp; Workshop Funding</b>	:	-
<b>Research Projects (Granted)</b>	:	-
<b>R &amp; D Activities</b>	:	-

#### *Peer Reviewed/Indexed Publications/UGC Care Listed Journal*

<b>Publication Details</b>	:	<ul style="list-style-type: none"><li>Published and indexed the SCI paper titled “HawkFogs -An Enhanced Deep Learning Framework for the Fog-IoT Environment ” <b>Abirami, R.</b> Poovammal, E in Frontiers in Artificial Intelligence.</li><li>Published “An Intelligent Framework for Energy Efficient Health Monitoring System Using Edge-Body Area Networks” <b>Abirami, R.</b> Poovammal, E,</li></ul>
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Advances in Science and Technology, 2023,  
124 AST, pp. 836–843

- Published “Detecting Security Vulnerabilities in Website using Python” **Abirami, R.**, Wise, D.C.J.W., Jeeva, R., Sanjay, S. Proceedings of the International Conference on Electronics and Sustainable Communication Systems, ICESC 2020, 2020, pp. 844–846, 9155908
- Published “Customized Smart Glasses for Needy Blind People” **Abirami, R.**, Haarini, S., Hari Prasanth, P. International journal of online and biomedical engineering, 2020, 16(13), pp. 33–44  
Published “Customer Relationship and Sales Management using Data Mining Techniques” M. Devaganesh, B. Dilipan, **R. Abirami**, International Research Journal Of Multidisciplinary Technovation (IRJMT), DOI:  
<https://doi.org/10.34256/irjmt2033>

## National Conferences-06

- Presented a Poster titled “An Intelligent Framework for Energy Efficient Health Monitoring System using Edge Body Area Network” organised by SRM Institute of Science and Technology, Kattankulathur from March 24 to 26, 2022
- Presented “A Performance Analysis of Classification Algorithm For Student Feedback”, at Hindustan Institute of Technology & Science,Chennai, National Conference on Artificial Intelligence NCAI-2020 on 27th -28th February 2020.

- Presented "Anomaly Detection in three tier web Application", at Sasurie College of Engineering, National Conference on, 06th March 2014.
- Presented "Enhanced Trust Based Adaptive Acknowledgement System", at Tamilnadu College of Engineering, National Conference on Recent Trends in Information & Communication Engineering, 14th March 2014.

### **International Conferences-07**

- Presented "Traffic Sign Detection in the Digital Era: Leveraging Convolutional Neural Networks," 2023 IEEE 4th International Multidisciplinary Conference on Engineering Technology (IMCET), Beirut, Lebanon, 2023, pp. 122-127, doi: 10.1109/IMCET59736.2023.10368244.
- Presented “An Intelligent Framework for Energy Efficient Health Monitoring System using Edge Body Area Network” in the Virtual International Conference on IOT, Cloud and Data Science organised by SRM Institute of Science and Technology, Vadaplanis Chennai, from May 6 to 7, 2022.
- Presented “Optimizing Geo-Distributed Data Analytics with Coordinated Task Scheduling and Routing” at KIT Global Institute of Advanced Studies & Research, Coimbatore, International Conference on Machine Intelligence and Green Computing 10th -11th December 2021.
- Presented “Detecting Security Vulnerabilities in Website Using Python” at Hindustan

Institute of Technology, Coimbatore,  
International Conference on Electronics and  
Sustainable Communication Systems  
ICESCS'20,2nd – 4th July,2020

- Presented “Customer Relationship and Sales Management using Data Mining Technique”, at Velammal Institute of Technology, Chennai, International Conference on Research Advancements & Challenges in Engineering Science ICRACE’20,6th -7th March,2020.
  - Presented “Detection of Fake Images using CNN”, at Velammal Institute of Technology, Chennai, International Conference on Research Advancements & Challenges in Engineering Science ICRACE’20,6th -7th March,2020.
- Presented "An Adaptive Distributed Power Efficient Hierarchical Clustering Algorithm for Wireless Sensor Network", at RVS College of Engineering & Technology, Coimbatore, International Conference on IISM’11, 14th - 16th July,2011

**Patent Publication :**

**Honors & Awards :**

#### **Workshops Attended**

**FDP & Workshop Attended Details :**

- Attended the Workshop on “Developing Applications using Natural Language Processing” at SRM IST, Kattankulathur from July 20<sup>th</sup> to 22<sup>nd</sup> 2022.
- Attended the Two Days National Workshop on “Deep Learning Based Efficient Code Optimization in Software Engineering”

organised by SRM IST,from February 24 to 25, 2022.

- Attended the Workshop on “Modern Data Engineering Practices” at SRM Institute of Science and Technology, Kattankulathur on January 10<sup>th</sup> 2022.
- Attended the National Workshop on “Design and Development of IoT Based Applications” organized by Amity School of Engineering and Technology, Amity University Madhya Pradesh, Gwalior on 16th September 2021.
- Attended the Two Day National Workshop on “Artificial Intelligence and Machine Learning Application in Healthcare” at SRM Institute of Science and Technology, September 16 and 17, 2021.
- Attended one day Workshop on “Integration of Arduino and proteus ISIS for various Applications” on November 27<sup>th</sup> 2019.
- Attended one day International Workshop on “Ambient Intelligence for Next Generation Intelligent Systems”.
- Attended “Quality Improvement Cell Workshop” at GCT.
- Attended in a Two-week ISTE Workshop on “Database Management Systems “conducted by IIT, Bombay.
- Attended Two Week National Level Workshop on “Introduction to Research Methodologies” conducted by IIT, Bombay.
- Attended ISTE Workshop on “AAKASH for Education” conducted by IIT,Bombay.
- Attended Workshop on “Ethical Hacking and Cyber Security”.

- Attended one day seminar in “Open Source Free One Day Workshop” in 365 Corporate Solutions.

### **Faculty Development Program**

- Attended the Five days FDP on “Emerging Trends in Artificial Intelligence and Deep Learning” organized by Sri Sai Ram Institute of Technology, Chennai from December 26<sup>th</sup> to 30<sup>th</sup>, 2023.
- Attended the Six Days Professional Development Programme on “Personal Excellence in Academic Arena” organised by Career Development Center, SRM Institute of Science and Technology, Kattankulathur from September 11<sup>th</sup> to 16<sup>th</sup>, 2023.
- Attended the Six Days Faculty Development Program on “STTP on Intelligence at the Edge” organised by SRM Institute of Science and Technology, Kattankulathur from November 7<sup>th</sup> to 12<sup>th</sup>, 2022.
- Attended the Three Days Faculty Development Program on “Intelligent Computing for Next Generation Embedded IoT” organized by Sri Krishna College of Engineering and Technology, Coimbatore from October 26<sup>th</sup> to 28<sup>th</sup> 2022.
- Attended the Six Days Faculty Development Program on “Machine Learning for All” organised by SRM Institute of Science and Technology, Kattankulathur from May 16 to 21, 2022.
- Attended the Five Days Virtual Faculty Development Program on “Big Data Analytics and Security with Block Chain-The Future”

organized by Sai Ram Engineering College, Chennai from January 24th to 29<sup>th</sup> 2022

- Attended the Five Days AICTE Training And Learning (ATAL) Academy FDP on "Smart City Technologies" from September 20 to 24, 2021 at Gurukul Kangri Vishwavidyalaya.
- Attended the Five Days ISEA Faculty Training Programme on State-of-the-art Technologies in Information Security from December 2 to 6<sup>th</sup> 2019, at CEG Campus Anna University Chennai.
- Attended the Faculty Development program on "Cloud and Automation" conducted by TCS from Dec 28<sup>th</sup> 2016 to Jan 06<sup>th</sup> 2017.
- Attended the Faculty Development program on "Data Warehousing & Data Mining" conducted by Rajalakshmi Institute of Technology from 9<sup>th</sup> to 16<sup>th</sup> June 2017.
- Attended the Faculty Development program on "Recent Trends in IT" conducted by TCS on 30<sup>th</sup> May 2017.
- Attended the Faculty Development program on "Introduction to Mobile App Development" conducted by ICT Academy from 30<sup>th</sup> to 31<sup>st</sup> January 2017.
- Attended the Faculty Development program on "Service Oriented Architecture" conducted by College of Engineering from 1<sup>st</sup> to 5<sup>th</sup> December 2016.
- Attended the Faculty Development program on "Instructional Design and Delivery System" IDDS conducted by NITTTR (Govt. of India, Ministry of HRD) from 5th to 9th May 2014.

- Attended the Faculty Development program on “Theory of Computation”.

<b>Professional Membership</b>	:	IAENG ,IAST
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<b>LinkedIn ID</b>	:
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<b>Google Scholar ID</b>	:
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<b>Scopus ID</b>	:
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<b>E-mail ID</b>	:	abiramibose@gmail.com
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