

Faculty Profile



Mr. S. Manickam , M.E., (Ph.D)

Assistant Professor(OG) – Department of Artificial Intelligence and Machine Learning

HIGHLIGHTS:

- Number of Journal Publications: 2
- H-Index: 1
- Patents Published: 1
- Patents Granted: 3

PROFESSIONAL LINKS:

- Scopus ID: **AU-ID ("Manickam, S." 59473179300)**
- Scopus Link: **<https://www.scopus.com/authid/detail.uri?authorId=59473179300>**
- Google Scholar ID: **<https://scholar.google.co.in/citations?hl=en&user=sH07ZUYAAAAJ>**
- Anna University Faculty ID: **9503351**
- AICTE Faculty ID: **19378111625**
- LinkedIn: **<https://www.linkedin.com/in/manickam-s-2a900197/>**

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: **4 Years**
- Industrial Experience: **3 Years**

AREA OF SPECIALIZATION:

- Data Analytics
- Machine Learning
- Data Structures and Algorithms
- Artificial Intelligence
- Computer Networks

JOURNAL PUBLICATION:

- P Muthuvel, Pandiyan G, Manickam S, and Rajesh C. "Optimizing Road Networks: A Graph-Based Analysis with Path-finding and Learning Algorithms." International Journal

of Intelligent Transportation Systems Research OnlineFirst (2024): 1-15.
<https://doi.org/10.1007/s13177-024-00453-w>

- S. Manickam and D. Kesavaraja, "Secure multi server authentication system using elliptic curve digital signature," 2016 International Conference on Circuit, Power and Computing Technologies (ICCPCT), Nagercoil, India, 2016, pp. 1-4, doi:10.1109/ICCPCT.2016.7530333.

PATENTS PUBLISHED/GRANTED:

- Patent granted of the design to “IOT BASED AGRICULTURE ROBOT FOR PESTICIDES SPRAYING” in the name of 1.Saveetha Engineering College 2. Dr.G.Pandiyar 3.Dr. P. Muthuvel 4.Mr. Rajesh C 5.Mr.S.Manickam on 29.08.2024.
- Patent granted of the design to “SMART ROBOTICS USING IOT AND ML TECHNIQUES” in the name of 1. Saveetha Engineering College 2. Mr.S.Manickam on 13.06.2024.
- Patent granted of the design to “MICROWAVE SENSOR BASED SOIL ANALYZER” in the name of 1.Mr. Muthupandi G 2. Dr. Joe Patrick Gnanaraj S 3.Mr. Manickam S 4.Mr. Sivakumar G 5.Mrs. Sweetline Arputham J 6.Mr. Ponithish N 7.Dr. Felcia Jerlin I on 22.03.2024.
- Patent Published - Dr.Amarnath Dr.Dande Swaona Sree, Dr.P.Periya samy, Dr.Karthikeyan palaniappan, Mrs.P.Joy Suganthy Bai, Somnath Das, Manickam.S “IOT AND ARTIFICIAL INTELLIGENCE BASED RECOGNITION, CALORIE ESTIMATION AND SUGGESTION FOR HEALTHY LIFE USING DEEP LEARNING ALGORITHM” Indian Patent Journal, September 2022.

COURSES CERTIFIED:

Si. No	Course Title	Organis ation	Grade	Duration
1	The Joy of Computing Using Python	NPTEL	82%-Silver	Jul-Oct 2024(12 Weeks)
2	Entrepreneurship	NPTEL	78% - Silver	Jul-Oct 2023 (12 Weeks)
3	Introduction to Machine Learning	NPTEL	71%- Elite	Jan-Apr 2023 (12 Weeks)
4	An Introduction to AI	NPTEL	54% - Completed	Jan-Apr 2023 (12 Weeks)
5	Learning Analytics Tools	NPTEL	85% - Silver	Jul-Oct 2022 (12 Weeks)
6	Python for Data Science	NPTEL	76% - Silver	Jul-Aug 2022 (4 Weeks)
7	Data Science for Engineers	NPTEL	69% - Elite	Jul-Sep 2022 (8 Weeks)
8	Deep Learning	NPTEL	71% - Elite	Jan-Apr 2022 (12 Weeks)

ACHIEVEMENTS AND AWARDS:

- Awarded as a “NPTEL STAR” for Getting SWAYAM-NPTEL Domain certification in “Data Science” (computer science) in the period April 2023.
- NPTEL Local Chapter SPOC of Grace College of Engineering from Jan 2022 to Dec 2023
- IIC – Innovation Ambassador.

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED:

FDP:

- FDP on Artificial Intelligence Edge – Soft Computing Sponsored by ATAL at Dr.Sivanthi Aditanar College of Engineering, Tiruchendur from 09.12.2024 to 14.12.2024.
- FDP on “The Joy of Computing Using Python” by NPTEL from July 2024 -Oct 2024
- 5-Day online FDP on “Advancement in Computing Technologies and Internet of Things” in the School of Computer Science and Engineering at VIT, Chennai from 21.10.2024 to 25.10.2024.
- One Day online IP Training Program under the scheme of “National Intellectual Property Awareness Mission” organized by Intellectual Property Office, India on 24.07.2024.
- One Day Online FDP on “Transversal Skills in Applied Artificial Intelligence” organized by St. Aloysius College, Elthuruth, Thrissur, on 17.07.2024.
- One Week online FITP (Faculty Industry Training Programme) on “Explainable Artificial Intelligence (XAI Technology)” in Association with MIT Square, London organized by Department of Computer Science and Engineering, SRM Institute of Science and Technology, Ramapuram, Chennai from 08.07.2024 to 12.07.2024.
- One Week online FDP on “Machine Learning” organized by St. Joseph College of Engineering, Sriperumbudur, Chennai – 602117, from 24.06.2024 to 28.06.2024.
- FDP on Emerging Desalination Technologies: Challenges and Future Trends”, sponsored by ATAL at St.Mother Theresa Engineering College , Thoothukudi from 06.11.2023 - 11.11.2023.
- FDP on “Entrepreneurship” by NPTEL from July 2023 -Dec 2023
- FDP on “Artificial Intelligence and Machine Learning/Deep Learning”, organized by Department of CSE, DRK College of Engineering, Hyderabad from 20.02.2023 to 24.02.2023
- FDP on “Cyber Security” organized by College of Engineering, Roorkee,Uttarakand from 6.02.2023 – 10.02.2023.
- FDP on “Learning Analytics Tools” by NPTEL from July 2022 -Dec 2022
- FDP on “Data Science for Engineers” by NPTEL from July 2022 - Sept 2022
- FDP on “Python for Data Science” by NPTEL from July 2022 - Aug 2022
- FDP on “Innovation and Entrepreneurship Development Programme”, organized by Anna University - Regional Campus, Tirunelveli Sponsored by EDII-TN from 29.09.2022 to 01.10.22.
- FDP on “CS8082 -Machine Learning Techniques”, organized by Anna University Regional Campus Tirunelveli from 04.07.2022 to 8.07.2022
- FDP on “Deep Learning” by NPTEL from Jan 2022 to Apr 2022

- FDP on “Artificial Intelligence in Healthcare” organized by the Department of CSE in association with ISTE, SAIRAM Engineering College, Chennai from 21.02.2022 to 25.02.2022.
- FDP on “Sensor Data Analytic” sponsored by ATAL at Indian Institute of Information Technology-Kottayam from 29.11.2021 to 04.12.2021
- FDP on “Internet of Things (IoT)” sponsored by ATAL at Punjabi University Patiala from 08.11.2021 to 12.11.2021.
- FDP on “CS8791-Cloud Computing” by Loyola -ICAM College of Engineering sponsored by Anna University from 24.05.2021 to 29.05.2021.

Conferences:

National Conferences:

- “Secure Service Authentication Using Biometric Based Smart Cards”, Dr.Sivanthi Aditanar College of Engineering- Tiruchendur-628215 on 29.04.2016.
- “Big Data Security with Collaborative Intrusion Detection”, Dr.Sivanthi Aditanar College of Engineering- Tiruchendur 628215 on 10.04.2015.

International Conferences:

- “Species Prediction Using Machine Learning Technique” on OCT 23, JACSI College of Engineering, Thoothukudi-628617 on 26.04.2023
- “Autonomous Speech Recognition Model in Edge-Computing for the Smart Device” on SMTBEA-2022, SSN Institutions - Chennai-630110 on 13.07.2022 to 17.07.2022.
- “Secure Multi-Server Authentication System Using Elliptic Curve Digital Signature”, on ICCPCT 2016, Noorul Islam University – Kanyakumari- 629180 on 18.03.2016.

OTHER DETAILS (If any):

- Qualified in UGC-NET December 2019 for Assistant Professor in Computer Science and Application.