Dr.T.Thenmozhi.,B.Tech.,M.Tech.,Ph.D.,
Assistant Professor I
Department of Electronics and Communication Engineering
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Educational Qualification:

Degree Obtained	Year	University/Institute	Any other details
Ph.D – Control & Instrumentation	2023	Anna University, Chennai	Highly Recommended
M.Tech.,- Control & Instrumentation	2014	Anna University, Chennai/Thiagarajar College of Engineering, Madurai	First Class with Distinction
B.Tech.,-Electronics &Instrumentation	2008	Anna University, Chennai/Thiagarajar College of Engineering, Madurai	First Class with Distinction

Experience in Years: 3.6 years(Industrial Experience)

Employment History:

Position Held	Employer	Date/s (From-To)
Assistant Professor I, Department of ECE	Velammal College of Engineering and Technology, Madurai	13.06.2025 to till Date
Assistant Professor I, Department of Artificial Intelligence and Data Science	Velammal College of Engineering and Technology, Madurai	03.06.2024 to 12.6.2025
Full Time Researcher	Thiagarajar College of Engineering, Madurai	09.07.2018 - 17.05.2023
Systems Engineer (Mainframe)	Tata Consultancy Services (TCS),Chennai	04.08.2008 – 03.02.2012

Interested Research Areas: Digital Signal Processing, Machine Learning, Deep Learning, Artificial Intelligence, Biomedical Instrumentation

Scholarships and Awards received:

1. Worked as a Lab Teaching Assiatant and Received TEQIP scholarship during M.Tech period(2013-2014)

2. Received TEQIP scholarship for 15 months during Ph.D research period

3. Received **55** citations with H-index-2 for my research works

4. Completed Certified Courses on MATLAB ONRAMP, Deep Learning ONRAMP, MATLAB programming techniques.

5. Act as Reviewer in Elseiver "Expert Systems with Applications" Journal.

6. Member in research gate with Research interest score as 25.3.

7. Succesfully completed NPTEL Certification in the Course" Learning Analytics" 24-25.

8. Elite Silver NPTEL Certification in the Course" Python for Data Science" 24-25.

EVENTS organized :

- Got NPTEL Mentor Certification for the course "Science, Technology and Society" 24-25.

- Organized One Day Awareness Program on Artificial Intelligence: A milestone in Biomedical Research on 19.10.24 for first year AI&DS Students.

- Organized League of Logos -Interdepartmental logo contest on 15.11.24.

- Organized One Day Boot Camp on "Object Oriented Programming (OOPS) in C++" on 29.08.24 for Second year AI&DS Students.

- Organized One Day "Hands-on Training on Innovation and Research Strategy in IOT: ESP32 Real Time cloud Software "on 01.10.24 for Second year AI&DS students.

- Organized One Day Boot camp on "Mastering File Handling in Python: Tips, Tricks, and Best Practices" on 25.11.24 for Second year AI&DS students.

- Organized One day Awareness Program on "Evolution of Data Analytics in R Programming and Power PBI in AI ERA" on 14.02.25.

EVENTS Participated:
- Successfully completed FDP on "Python for Data Science" through NPTEL (Jan to Feb 2025)
- Successfully Completed One Week Online ATAL FDP on "IoT and Cyber security in power systems" at KLNCE (03.2.25 to 08.02.25).
- Attended One-week Online FDP on "Integrating Innovation: Exploring Emerging Technologies" at KLNCE (06.01.25 to 11.01.25)
- Participated as a Trainer on "AI for Future Workforce" conducted by CSE Dept VCET (18.11.24 to 29.11.24).
- Attended Online Short-term Training Program on "Generative AI and the Future of Work" at Reva University (22.07.24 to 26.07.24)
- Successfully completed FDP on "Learning Analytics Tools" through NPTEL (July to December 2024)

Funded Research Projects: Nil

Patent rights received:

Publications Details: (will be either in Table (or) Paragraph starting with latest publication)

1. Patent Journal Publication Details: Real time analysis and prediction of mental and physical health disorders due to modern lifestyle using Machine Learning techniques"

(Application No. 202441070037 A, Filed Date:20.09.2024).

2. International Journal Publication Details:

1. **Thenmozhi, T** & Helen, R 2022, 'Feature selection using extreme gradient boosting bayesian optimization to upgrade the classification performance of motor imagery signals for BCI', Journal of Neuroscience Methods, Elsevier, vol. 366, ISSN: 109425, Impact Factor: 3.0(Annexure-1,Q2 journal)

2. **Thenmozhi, T**., Helen, R., & Mythili, S. (2025). Classification of motor imagery EEG with ensemble RNCA model. Behavioural Brain Research, 479, 115345. **(Annexure-I,Q2 journal)**

3.International Conference Presentation Details:

1. **T.Thenmozhi,** Dr.R.Helen ,"An Improved Approach for Extracting Features and Classifying Motor Imagery EEG Signals through Machine Learning" International Conference on Automation, Signal Processing, Instrumentation and Control-iCASIC-2020.

2. Helen. R, Karthika. P, Selvakumar. R and **Thenmozhi. T**, "Smart bin and intelligent waste segregator using IoT," 2022 4th International Conference on Smart Systems and Inventive Technology (ICSSIT), 2022, pp. 125-131, (IEEE Xplore). doi: 10.1109/ICSSIT53264.2022.9716506

3. Helen.R, **Thenmozhi.T,** Nithya kalyani.R, ShanmugaPriya.T, "Fruit Recognition And Freshness Detection Using Convolutional Neural Networks",2022 4th International conference on machine Intelligence and signal processing (MISP2022)-(LNEE)

4. Helen R, Nikei Antony Miekle A, **Thenmozhi T**, Suhail Ahmed A, Aravindh R.(2023,October),"Detection of Sensors Fault using Singular Value Decomposition Technique in Power Plant",International Conference on Self Sustainable Artificial Intelligence Systems ,"pp(1693-1699).IEEE xplore

5. Helen, R., **Thenmozhi, T**., Mythili, S., Raghavan, N., & Griharan, S. (2023, December). Classification Analysis of Motor Imagery EEG Signals Using Bidirectional LSTM Model. In International Conference on Advances and Applications of Artificial Intelligence and Machine Learning (pp. 159-173). Singapore: Springer Nature Singapore.

4.National Conference Presentation Details:

T.Thenmozhi, Dr.R.Helen,"ECG Feature Extraction Using Hilbert Transform", National conference on Bioelectronics,Biomaterials and Medical devices(NCBBM-2014) held at SSN college of Egineering on March 2014.

5.Google Scholar report:

https://scholar.google.com/citations?hl=en&user=BtgNWhoAAAAJ