Faculty Profile

Mrs. V.SWEDHA , M.E., (Ph.D)
Assistant Professor (OG) - IT

HIGHLIGHTS:

- Number of Journal Publications: 1
- H-Index: 0
- Project Funding Received: 0
- Patents Published: 7
- Patents Granted: 6

PROFESSIONAL LINKS:

- Google Scholar ID: Swedha V
- Anna University Faculty ID: 275935
- AICTE Faculty ID: 1-7501348781
- Anna University Supervisor ID: NA
- LinkedIn: https://www.linkedin.com/in/swedha-v-062296317/
- Orcid ID: https://orcid.org/0009-0009-8500-2825
- Scopus Author ID: https://www.scopus.com/authid/detail.uri?authorId=60377055200
- LinkedIn: https://www.linkedin.com/in/swedha-v-6b3447150

PROFESSIONAL BACKGROUND:

- Teaching Experience till date: 6 years 4 months
- Industrial Experience: 4 Months

INTERNATIONAL EXPOSURE:

- Nil

AREA OF SPECIALIZATION:

- Image processing
- Deep Learning
- Artificial intelligence
- Machine Learning

Ph.Ds GUIDING:

- **Full Time Scholars: NA**
- **Part Time Scholars : NA**

SPONSORED RESEARCH / FUNDING APPLIED / CONSULTANCY:

- Nil

PATENTS PUBLISHED/GRANTED:

- BIO-INSPIRED NEURAL NETWORK ARCHITECTURE FOR REAL-TIME POWER GRID OPTIMIZATION AND FAULT DETECTION
- EDGE-CLOUD COLLABORATIVE MACHINE LEARNING ARCHITECTURE FOR REAL-TIME IOT DATA PROCESSING
- INTELLIGENT IOT DEVICE DISCOVERY AND LIFECYCLE MANAGEMENT LEVERAGING MACHINE LEARNING AND CLOUD APIS
- EXTENSIVE DEVICE TO ANALYZE AND DESIGN TOFORMULATE HERBAL DRUGS
- INFRARED PROJECTOR FOR VEIN DETECTION
- A HYBRID REASONING FRAMEWORK FOR EXPLAINABLE AI WITH COMMON SENSE KNOWLEDGE
- AN AI DRIVEN SMART AGRICULTURE MANAGEMENT AND TRADE SYSTEM USING MACHINE LEARNING

COURSES CERTIFIED:

- Artificial Intelligence Nanodegree-UDACITY
- Java Programming for Beginners-SIMPLY LEARN
- OOPS in Java-GREAT LEARNING
- Introduction to Deep Learning-GREAT LEARNING
- Java Programming for Beginners-SIMPLY LEARN

Faculty Enrichment Programs / Workshops / FDPs Attended or Nominated:

- Nominated for the Cognizant Digital Nurture Reverence Faculty Enrichment Program (FEP) – Industry In-depth, scheduled on 16th March.
- Attended FDP on *Systematic Research Paper Writing* | Research Foundation of India (Apr 2026)
- Attended AICTE ATAL FDP on *AI in Healthcare & Intelligent Systems* | SNIST (Jan 2026)
- Attended IEEE Madras Section FDP on *Emerging Trends in AI & Deep Learning* | Sri Sai Ram Institute of Technology (Dec 2023)

- Attended IEEE Faculty Development Program on *AI & Cybersecurity (LLMs, Generative AI, Federated Systems)* | MITS (Mar 2026)
- Attended FDP on *Advanced Deep Learning Techniques for Healthcare AI* | CVR College (Mar 2026)
- Attended FDP on *Foundations of Data Science & Applications* | GNIT (Nov 2025)
- Attended Workshop on *Simplifying Complex Data with Pivot Analysis* | CEDAAR (Nov 2024)
- Attended National Workshop on *Designing Effective Surveys* | CEDAAR (Nov 2024)
- Attended R&D Webinar on *Mastering Journal Publication* | AMET University (Sept 2024)
- Attended Workshop on *Hands-on Training on Development of E-content (MOODLE) & Educational Video Creation* | CIT–TLC (Jan 2021)
- Attended Workshop on *Hands-on Model Building using Keras & TensorFlow* | SVCE (Oct 2024)

CONFERENCES/SEMINARS PRESENTED OR ATTENDED:

- **Conferences:**
  - Presented paper at the **7th International Conference on Computational Intelligence in Data Science (ICCIDS-2024) on the title "Heart Attack Prediction Using Big Data Analytics"** organized by the Department of Computer Science and Engineering, Sri Sivasubramaniya Nadar College of Engineering, Chennai, India
  - Presented paper on the title "Intelligent **computing, Advanced Communication and Materials -IC2ACM-23**" Conducted by RMK Engineering College, Chennai.
  - **Book Chapter (2026) Swedha V.**, Shanthini S., Karthika R. N., *"Exploring VGG16 and VGG19 for Autism Detection in Pediatric Images,"* Springer, 2026. DOI: 10.1007/978-3-032-08504-7_24
  - IEEE Conference Paper (2026): *Explainable Deep Learning for Identifying Neuropsychiatric Disorders from fMRI Data* | DOI: 10.1109/ICCIKE67021.2025.11318256

PROFESSIONAL MEMBERSHIPS:

NIL

OTHER DETAILS (If any):