

RESUME

Mrs. K. VALARMATHI

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CAREER OBJECTIVE

To build a rewarding career in academia by contributing to quality education, fostering student growth, and engaging in meaningful research. I aim to inspire learning, enhance technical and analytical skills, and actively participate in academic and institutional development.

ACADEMIC QUALIFICATIONS

Degree	Institution	University / Board	Class / Year
Ph.D. (Registered)	Anna University, Chennai	–	Registered – July 2025
M.E. (Computer Science and Engineering)	Agni College of Technology, Chennai	Anna University	First Class
B.E. (Computer Science and Engineering)	Jeppiaar SRR Engineering College, Chennai	Anna University	First Class
H.S.C. (Science)	Christ the King M.H.S. School	State Board	First Class
S.S.C.	B.S.M.H.S. School	State Board	First Class

TEACHING AND PROFESSIONAL EXPERIENCE

Assistant Professor- S.A. Engineering College

- Handled undergraduate courses on **Data Structures, Database Management Systems, Artificial Intelligence, and Cloud Computing.**
- Involved in **curriculum development, lab coordination, mentoring student projects,** and guiding research-based learning.
- Conducted **seminars, workshops, and coding sessions** for student development.
- Organized **guest lectures and innovation programs** under departmental activities.

TECHNICAL SKILLS

- **Programming Languages:** C, C++, Java, Python
- **Database:** SQL, MySQL

- **Operating Systems:** Windows 10
- **Tools & Technologies:** MATLAB, Google Colab, MS Excel
- **Areas of Expertise:** AI, Data Science, Cloud Computing

AREAS OF INTEREST

- Artificial Intelligence and Machine Learning
- Cloud Computing and Distributed Systems
- Data Mining and Data Science
- Deep Learning and Generative AI

RESEARCH & INNOVATION

Patents Filed / Published

1. **Prediction and AI-Based Recommendation System for Vision-Based Gesture Recognition Technology**
Application No.: 202341073198
2. **Cyber Bullying Detection of Emotion Multitasking (MT) Sentiment Analysis through Machine Learning**
Application No.: 202441080145

ACADEMIC PROJECTS

- **M.E. Project:** Mining Text Data with Side Information
Developed a text clustering framework utilizing side attributes for enhanced classification accuracy.
- **B.E. Project:** IVR Based Calls on Adaptive You through Synclio
Designed a browser-level video chat application using WebRTC, completed during an industrial internship at Adaptavant Pvt. Ltd., Chennai.

FACULTY DEVELOPMENT PROGRAMS (FDPs) & TRAINING

- 5-Day FDP on “AI, ML and Deep Learning for Autonomous Vehicles”, Pantech eLearning, July–Aug 2025.
- 5-Day FDP on “Quantum Machine Learning”, Vel Tech Multi Tech, July 2025.
- International FDP: “Exploring New Frontiers in Teaching Tools, AI and Data Analytics”, MEASI Institute of IT, Aug 2024.
- FDP on “Big Data Computing” (NPTEL – Secured 76%).
- “AI & ChatGPT” Online Training, MSME Technology Centre, Bengaluru, Feb 2024.
- “Data Science with Python” Training Program, Talent Next, Nov 2024.
- Recognized as **WIPRO Certified Faculty in Data Science with Python** – Project-Based Learning Mentor.

CERTIFICATIONS

- WIPRO Certified Faculty – Data Science with Python
- Coursera: Introduction to Microsoft Excel
- NPTEL: Big Data Computing (76%) & Accreditation and Outcome-Based Education (82%)
- Infosys Campus Connect: Foundation Program

RESEARCH PUBLICATIONS

Journals

- AI-Driven Prediction Models for Medical Image Enhancement and Analysis Using Deep Learning, South Eastern European Journal of Public Health, Sept 2024.
- Federated Learning for AI-Powered Privacy in Distributed Systems, IJCESEN, Vol. 11, No. 3, 2025.

Conferences

- Digital Twin-Driven Intrusion Detection for IoT and Cyber-Physical Systems, IACIS 2024.
- Anomaly Detection in Industrial Inspection Visual Systems using Swin Transformer with Bayesian Optimization, IEEE ICDCECE 2025.

PROFESSIONAL IDENTIFIERS

- **Scopus Author ID:** 59920354200
- **ORCID ID:** 0009-0007-3461-5424

ACHIEVEMENTS & ACTIVITIES

- Registered **Ph.D. Scholar** (Anna University, July 2025).
- Filed **2 patents** in AI and Machine Learning domains.
- Received **Full Attendance and General Proficiency Awards**.
- Organized National Level Symposia and Workshops.
- Recognized by **WIPRO TalentNext** for mentoring excellence.

EXTRA-CURRICULAR ACTIVITIES

- Represented college in sports and inter-departmental events.
- Volunteered in **NSS social outreach programs**.
- Acted as a **resource person** for student-level workshops on AI and Python.

PERSONAL DETAILS

Date of Birth: 12th September 1991

Languages Known: English, Tamil

Nationality: Indian

DECLARATION

I hereby declare that the above information is true and correct to the best of my knowledge and belief.

Place: Chennai

Date: 09.09.2025

(K. VALARMATHI)