B. UMAMMAHESWARI

Email : **uma.somasekar2010@gmail.com**

Objective

Aspiring for the post of Assistant Professor with the objective of using acquired knowledge along with excellent interpersonal skills for successful mentorship & guidance to students of a prestigious Institution.

Academic Credentials

Educational qualification	Institution	University / Board	Year of Passing	Percentage (%) & CGPA
PhD	Bharath Institute of Higher Education and Research	Bharath University	Completed Course work	-
M.TECH - Computer Science and Engineering	SRM UNIVERSITY	SRM University	2013	80%
B.E - Computer Science and Engineering	Adhiparasakthi Engineering College, Melmaruvathur	Anna University	2010	83%
HSC	Sri Venkateswara Matriculation Higher Sec. School, Vandavasi	Matriculation	2006	86%
SSLC	Sri Bharathamatha Matriculation School, Vandavasi	Matriculation	2004	78%

Academic Experience

- Worked as Assistant Professor in Adhiparasakthi Engineering College, Melmaruvathur from 01-07-2009 to 0-12-2009.
- Worked as Assistant Professor in Prince Dr. K. Vasudevan College of Engineering & Technology, Chennai from 06-06-2010 to 18-12-2018.
- Working as Assistant Professor in Prince Shri Venkateshwara Padmavathy Engineering College, Chennai from 19-12-2018.

Areas of interest

- Mobile Computing, Computer Networks, Artificial Intelligence, Data Science

Skills

- **Teamwork**
- **Documentation**
- **Written Communication**
- **Editing**

Computer Literacy

- Operating System   : MS Windows, Ubuntu
- Programming Languages   : C, C++, Java, C#.NET, Python
- Scripting Languages   : **XML, HTML, Java Script**

Publications

- Published a **Scopus indexed** paper titled "Innovative Approaches to Harvesting Storing Renewable Energy from Ambient Sources " in 1st International Conference on Power and Energy Systems, Code 200410, Volume 540, Article number 13016, 21 June 2024.

- Published a **Scopus indexed** paper titled "An Extremely Scalable and Versatile Learning-Oriented Blockchain Performance Optimization Platform" in Global Conference on Communications and Information Technologies, GCCIT 2024, GCCIT 2024, EID: 2-s2.0-85218415595, DOI: 10.1109/GCCIT63234.2024.10862233.

- Published a **Scopus indexed** paper titled "Exploring the Potential of Secure Shell (SSH) as a Wireless Network Security Tool " in 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024, EID: 2-s2.0-85212982392, DOI: 10.1109/ICCCNT61001.2024.10724312

- Published a **Scopus indexed** paper titled "Forecasting the Impact of Deep Learning on Data Science Practices: A Comprehensive Analysis" in 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024; EID: 2-s2.0-85211176083, DOI: 10.1109/ICCCNT61001.2024.10724599

- Published a **Scopus indexed** paper titled "Forecasting the Impact of Deep Learning on Data Science Practices: A Comprehensive Analysis" in 15th International Conference on Computing Communication and Networking Technologies, ICCCNT 2024; EID: 2-s2.0-85211176083, DOI: 10.1109/ICCCNT61001.2024.10724599

- Published a **Scopus indexed** paper titled "Adaptive Bandwidth Optimization Techniques for Underwater Fiber Optic Networks " in 3rd International Conference on Smart Generation Computing, Communication and Networking, SMART GENCON 2023, 29 December 2023 through 31 December 2023.

- Published a **Scopus indexed** paper titled "A Dynamic Model for Predicting Indoor Temperatures based on CBLSTM and Auto Encoder Approach" in 2nd International Conference on Automation, Computing and Renewable Systems, ICACRS 2023 – Proceedings, DOI: 10.1109/ICACRS58579.2023.10404338, Pages: 1147 - 1152

- Published a **Scopus indexed** paper titled "A Comprehensive Evaluation of Driver Drowsiness Identification System using Camera based Improved Deep Learning Methodology" in IEEE 9th International Conference on Smart Structures and Systems, ICSSS 2023, 23 November 2023 through 24 November 2023.

- Published a **Scopus indexed** paper titled "Harnessing Machine Learning for Increased Efficiency in Real-Time Data Analysis" in IEEE 9th International Conference on Smart Structures and Systems, ICSSS 2023, 23 November 2023 through 24 November 2023.

- Published a **Scopus indexed** paper titled "Utilizing Machine Learning to Develop an Improved Real-Time Data Analysis System" in 3rd International Conference on Smart Generation Computing, Communication and Networking, SMART GENCON 2023, 29 December 2023 through 31 December 2023.

- Published a **Scopus indexed** paper titled "Mask RCNN and Tesseract OCR for vehicle plate character recognition" in AIP Conference Proceedings, Volume 2393, Issue 1, 10.1063/5.0074442, 020135 (2022).

- Published a **Scopus indexed** paper titled "Detecting identity based spoofing attacks in wireless network using IDs" in AIP Conference Proceedings, Volume 2393, Issue 1, 10.1063/5.0074431, 020126 (2022).

- Published a **Scopus indexed** paper titled "Retrieval of information from remote mobile phone using messages" in AIP Conference Proceedings, Volume 2393, Issue 1, 10.1063/5.0074425, 020138 (2022).

- Published a **Scopus indexed** paper titled "Data extraction in network through Rendezvous Point network" in AIP Conference Proceedings, Volume 2393, Issue 1, 10.1063/5.0074432, 020131 (2022).

- Published a **Scopus indexed** Lecture Notes in Electrical Engineering in "Design and Implementation of a Weed Removal Agriculture Robot" ISSN: 18761100Volume: 893 LNEE, Pages: 541 – 550 Conference Paper2022 EID: 2-s2.0-85129898772 DOI: 10.1007/978-981-19-1742-4_46

- Published a **Scopus indexed** paper titled "Characteristic based spam detection system to reveal the mock appraise in online social media" in AIP Conference Proceedings, Volume 2393, Issue 1, 10.1063/5.0074501, 020134 (2022).

- Published a paper titled "Detection of lung cancer using Data, Mining Classification Techniques "in international journal of advanced research in computer science and software engineering, Volume 5, Issue 7, Pages 1060-1062, 2015/7.

- Published a paper titled "Routing Attacks Mitigation for Manet Using OLSR and Risk Aware Response " in National Conference on Advanced Computing, organized by Tagore Engineering College, 2013.

Patents published

- Published a patent on DETECTION OF CHILD MOVEMENT FOR RESCUE FROM BOREWELL on 19-08-2022.

FDPs attended

- Attended ANNA UNIVERSITY's six-day Faculty Development Program on **CCS - DEVOPS** at ANAND INSTITUTE OF HIGHER TECHNOLOGY from 17/02/2025 to 22/02/2025.

- Attended AICTE Training and Learning (**ATAL**) Academy's Faculty Development Program on "**Exploring Advanced Data Science Tools Techniques and Trends** at ANAND INSTITUTE OF HIGHER TECHNOLOGY from 09/12/2024 to 14/12/2024.

- Attended One-Week Faculty Development Program on **"The Art of Research and Development"** at S.A. Engineering College from 26/12/2023 to 30/12/2023.

- Attended a Virtual Faculty Development Program on **"RESEARCH CAPABILITIES IN FOG AND EDGE COMPUTING"** at Sairam Engineering College from 14/02/2022 to 18/02/2022.

- Attended a Virtual Faculty Development Program on **"BLOCK CHAIN AND CRYPTO CURRENCY"** at Sairam Engineering College from 14/02/2022 to 18/02/2022.

- Participated in Two days' Workshop on "**MOBILE APPLICATION DEVELOPMENT LABORATORY**" organized by **Sairam Engineering College**, Chennai, Tamil Nadu from 08.01.2022 to 09.01.2022.

Professional Memberships

- Active Member, *Indian Society for Technical Education (ISTE)* – Since 2017
- Active Member, *Computer Society of India (CSI)* – Since 2025
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Achievement

- Awarded **Star Performer** by Virtusa Technology in faculty orientation program
- Got **ELITE SILVER** in SWAYAM-NPTEL 12-weeks Certificate Course

Traits

- Positive attitude
- Quick Learner
- Creative Problem Solving

Personal Particulars

Name   : B. Umamaheswari

Father's Name   : R. Baskar

Date of Birth   : 28-01-1988

Gender   : Female

Marital Status   : Married

Religion   : Hindu

Nationality   : Indian

Languages Known   : English, Tamil, Telugu

Declaration

      I hereby declare that the information stated above is true to the best of my knowledge.

PLACE : CHENNAI   B. UMAMAHESWARI