

## CURRICULUM VITAE

**R.SENTHILKUMAR.,B.Tech., M.E., (Ph.D.)**



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### **CAREER OBJECTIVE:**

To work and excel in the domain of Information Technology education in an institution with global acclaim. To apply the knowledge gained in the dynamic fields of educational administration, strategic planning and project management by continuously enhancing the knowledge for sustenance of competitive advantage.

### **Education**

- **Presently Pursuing Ph.D (Part Time) in Computer Science and Engineering** under Information and Communication Engineering, Anna University Chennai.
- **M.E., Computer and Communication Engineering** under Anna University Trichirapalli, from Pavendar Bharathidasan College of Engineering and Technology, Trichirapalli, India, with **First class** in the year 2010.
- **B.Tech., Information Technology** under Anna University Chennai, from Christian College of Engineering & Technology Oddanchatram, India, with **First class** in the year 2006.

### **Academic Experience**

**Totally 11 years and 9 Months of experience** as on 30<sup>th</sup> June 2022.

- Working as **Assistant Professor** in the Department of Computer Science Engineering, **Nehru Institute of Engineering and Technology**, T.M.Palayam, Coimbatore Dt., Pincode – 641105 from Nov 2020 to till date.

- Working as **Assistant Professor** in the Department of Information Technology, **K.L.N. College of Information Technology**, Pottapalayam, Sivagangai Dt., Pincode – 630611 from June 2011 to Oct 2020.

#### **AWARDS & ACHIEVEMENTS:**

- Mentor for the Project team on “**E-Goverence**” and secured **First place** in **Honorable Chief Minister’s Award** of Excellence District Level 2015 – 2016.
- Developed the **Intelligence Based Emergency Alert For Women and Girl Children Safety** Using **Internet Of Things**
- Developed the **AI based Chat bot** Application for the **Students monitoring System** at the College level
- Developed the **Voice based home automation system** using **Natural Language Processing (NLP)** and **Internet of Things(IoT)**
- Developed a **Real-time multiple object detection and recognition application** Using **NVIDIA JETSON Nano GPU**
- Developed a **AI based Real-time Translator for Regional Language** using **Tensor flow lite**
- Developed a Model for **AI Based Glaucoma Detection** using **Deep Learning Techniques**
- Developed a **Agri Bot** – An Intelligent Interactive Interface to Assist Farmers in Agricultural Activities
- Developed an **Emotional Intelligence – AI System**

#### **On Line Certification Courses:**

- Deep Learning Course Completion on One Fourth labs IIT Madras.
- What is Data Science Course Completion on IBM Coursera

**FIELD OF RESEARCH:**

- Internet of Things (IoT)
- AI based Bot creations
- Fog Computing
- Edge Computing
- Machine Learning
- Big Data Analytics
- Artificial Intelligence

**MEMBERSHIP IN PROFESSIONAL BODIES:**

- Life Member in Indian Society for Technical Education
- Professional Member, Association of Computing Machinery (ACM)

**JOURNAL PUBLICATION:** (International Journal: 02)

Name of the Journal	Title	Impact Factor & Citation Index
Elsevier – Microprocessors and Microsystems	Intelligent Based Novel Embedded system based IoT Enabled Air Pollution Monitoring System	Impact factor – 1.161 Indexing in : SCI and Scopus
IOS Press - Journal of Intelligent and Fuzzy systems	IoT based artificial intelligence indoor air quality monitoring system using enabled RNN algorithm techniques	Impact factor – 1.739 Indexing in : SCI and Scopus

**PATENT DETAILS**

S.No	Title	Patent id
1	A ROADMAP for Building an SLA Management Architecture for IoT Networks	202141026587 (Intellectual Property India)

## Book Chapter Details

Name of the Publisher	Title	Status
NOVA Science Publishers	WIND SPEED PREDICTION WITH METROLOGICAL VARIABLE COMBINATIONS ARTIFICIAL NEURAL NETWORK	Under Review

## CONFERENCE PUBLICATIONS: (International Conference: 01, National Conference: 03)

Name Of The Conference	Title	Venue	Period
2 <sup>nd</sup> International Conference on Inventive Computation Technologies IEEE XPLORE	Statistical and Machine Learning Approaches to Analysis ambient air quality in Major cities of Tamil Nadu, India	RVS Technical Campus Coimbatore	24-08-17 to 25-08-17
Exploration of Computation and Information Technology for Disaster Management	Study of Health Significance factor based on Air Pollutants Hazards	Adhiyamaan College of Engineering Hosur	08-08-2014 to 09-08-2014
National Conference On Advancements In Computing Methodologies	Air Pollution Monitoring System using Gas Sensor and Analysis of Data using Association Rule Mining	Anna University of technology Coimbatore	27-03-2014 to 28-03-2014
National Conference on Energy and Environment	WSN based Air pollution monitoring system using data mining approach : A Survey	A.C.Tech Anna University Chennai	03-03-2014

## PROJECTS APPLIED

Sl. No	Project Title	External Funds received (Rs)	Sponsor	Status (Completed /Ongoing)
1	"Indian conference on data analytics, big data, data mining and Data science (icd4)"	25,000	ISRO, Bangalore	Completed
2	Study and Development of Novel time series model for forecasting Tamilnadu Air Quality	5,00,000	AICTE	Applied

## SUBJECTS HANDLED:

- Big Data Analytics
- Artificial Intelligence
- Data Mining and Data warehousing
- Database Management System
- Advanced Database System
- Mobile Computing
- Cloud Computing
- Machine Learning Techniques

## EXTRA CIRCULAR ACTIVITIES:

- Career guidance program organised for +2 Schools in and around Madurai and Sivagangai district.
- Climate Change and Air pollution awareness program organized across various Social Communities such Schools, Colleges, NGOs.
- Plantation of tree saplings in various schools, colleges, government office premises.
- Admission activities conducted in various schools.

## PERSONAL DETAILS

Date of Birth : 18-03-1982

Gender : Male

Marital Status : Married

Nationality : Indian

Father's Name : N.Ramachandraarjunan

Mother's Name : R.Sasikala

Spouse's Name : M. Revathy

Kids : 02 (Sriraam & Kuzhalini)

Languages known : Speak: English, Tamil, Telgu  
Read: English, Tamil  
Write: English, Tamil

Permanent Address : 236,Parvathy Street  
Nataraj nagar,Kochadai  
Madurai  
Pincode: 625 016.

Place:

Date:

(R.SENTHILKUMAR)