FACULTY PROFILE TEMPLATE FOR WEBSITE

Basic Details:

- **Name: S. SURIYA**
- **Designation**: Assistant Professor
- **Phone Number:**-9944886067
- **Email Id:** sssuriya54@gmail.com, suriyas@srmist.edu.in
- **Area of Specialization**: Machine Learning and IoT
- **Affiliation:** Department of Computer Applications ,SRMIST

Educational Details:

- **Degree** – PhD (Pursuing)

- **Area or Subject** – Computer Science

- **University** – SRM University

- **Awarded Year** –

- **Degree** – MCA

- **Area or Subject** – Computer Applications

- **University** – Anna University

- **Awarded Year** – 2014

- **Degree** – BSc (IT)

- **Area or Subject** – Information Technology

- **University** – Manonmaniam Sundaranar University

- **Awarded Year** – 2011

Other Details:

Courses:

➢ Completed Database Management System course and certified by NPTEL

➢ Completed Python for Data Science and certified by NPTEL

➢ Completed IoT course and certified by NPTEL

➢ Complete Machine Learning course

Research Interests: (IoT,Machine Learning, Data Mining, Image Processing)

Selected Publications:

- **A SECURE WILD ANIMALS ALERT SYSTEM FOR PREVENTING THE FARMING LAND USING IOT**, 2020, International Journal of Recent Technology and Engineering, Volume 8,Issue-5, Page no.5585-5587, Publisher Blue Eyes Intelligence Engineering & Sciences Publication.

- **Feasibility Analysis for Targeted nodes using signal strength**, 2020, BIOSCIENCE BIOTECHNOLOGY RESEARCH COMMUNICATIONS, Volume13, Issue No.6 pages no.363-365, Society for Science and Nature (SSN) Bhopal 462001 India.

- **Detection of Traffic Signal Violation Using Ultrasonic Sensor**, **2020, BIOSCIENCE BIOTECHNOLOGY RESEARCH COMMUNICATIONS,** , Volume13, Issue No.6 pages no.379-381, Society for Science and Nature (SSN) Bhopal 462001 India.

- **A Progressive Method to Monitor Power Using IoT**, 2021/12/19, Book Smart Computing and Self-Adaptive Systems, Pages 153-168, Publisher CRC Press.

- **SMART GARBAGE BIN USING IOT**, 2022/7, INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS Volume 9 Issue 3 Pages 137-139, INTERNATIONAL JOURNAL OF RESEARCH AND ANALYTICAL REVIEWS.

- **Automatic vehicle number recognition system using character segmentation and morphological algorithm**, 2020/12/10, Conference 2020 IEEE International Conference on Advances and Developments in Electrical and Electronics Engineering (ICADEE),Pages 1-5Publisher,IEEE.

- **A Novel IoT based power monitoring system**, 2021/2/1, Journal IOP Conference Series: Materials Science and Engineering,Volume 1055 Issue 1,Pages 012159, Publisher IOP Publishing

- **Network monitoring system using ping methodology and GUI**, 2020 Journal Recent Trends and Advances in Artificial Intelligence and Internet of ThingsPages 13-22 Publisher Springer International Publishing.

- **Prediction of student Performance using Machine Learning, 2021**, Journal IOP Material Science and Engineering

- **COMPARATIVE STUDY BASED ON THE CONSUMPTION OF ELECTRICITY BILL FOR THE INDIAN STATES WITH VARIOUS MACHINE LEARNING ALGORITHMS,** 2023/6, Journal Journal of the Balkan Tribological Association Volume29 Issue 2 Pages 211–218 Publisher Journal of the Balkan Tribological Association.

Papers Presented:

- **"Analysis of Accident and Casuality severity based on Multiple factor"** in 8th National Conference on Recent trends in ABCD (ICON' 23) conducted by Dr. MGR. Educational and Research Institute.

- **"Automatic Vehicle Number Recognition System using Character Segmentation and Morphological algorithm"** in IEEE Conference conducted by Karpagam College of Engineering.

- "A Novel IoT Based Power Monitoring System" in International Virtual conference on Robotics, Automation, Intelligent Systems and Energy (IVC-RAISE 2020) held at Department of Mechatronics Engineering, Kongu Engineering College, Perundurai.

- "A Survey on Future Bill prediction in Electricity consumption" in the IEEE International conference on "Emerging Technologies and Applications for a smart and sustainable world" (ICEmTASS' 21).

Working Papers:

" Time Series data analysis for forecasting Electricity consumption using Hybrid Model"

Work in Progress:

Working with article " Time Series data analysis for forecasting Electricity consumption using Hybrid Model"

Academic Experience: 5 years

Other Professional Experience:
Software Engineer at Nicheken Technologies Pvt., Ltd., for one year 2 months

Achievements:

Workshops /Seminars/Conferences:

1. "AI Based Analyzing Rule-Based Human Facial Emotion Identification Using Dence CNN ",7 th National Conference on Recent Trends in AI & Data Science ICON'22 – 28th April 2022, ISBN 978-93-5636-168-3.

2. "Handwritten Digits Recognition Using CNN identifying the regional based writing style", Organized by AJK College association with ISMASI, (ICISMRSS 2022).

3. "Credit card fraud detection using Machine Learning implement with Logistics Regression", in 7th National Conference on Information and Communication Technologies (NCICT 2022).

4. "STUDY OF MEDICAL IMAGES USING VARIOUS AI TECHNIQUES AND BIG DATA" in International Conference on Innovation & Research in software Application-(ICIARSA-2k21) Organized by the Department of Software Applications, Agurchand Manmull Jain college, Meenambakkam, Chennai, on 15/12/2021.

5. • " A Survey on IoT Usage, A Look at the Digital Transformation in Covid-19 and Precautions for the Third Wave of Pandemic", in Two days International Virtual conference on"Recent Trends and Techniques in Computing (RTTC – 2021)" , Thiruvalluvar University, held on 16th and 17th of September 2021.

6. "Blockchain Technologies", 10/7/2021, Organized by department of Computer Applications, Sacred Heart College,Thirupattur.

7. "How to Avoid plagiarism?, 16/7/2021, Organized by School of Social Science and Language, Vellore Institute of Technology, Chennai.

8. "Effective Research Writing and Scholarly Publishing under UGC STRIDE", 19/8/2021 to 20/08/2021, Organized by VO Chidambaram College, Thoothukkudi.

9. "How to write effective Funding proposal", IQAC and Research & Development cell, Marudhar Kesari Jain College for Women, Vaniyambadi on 25.09.2021.

10. One-Day workshop on DevOps organized by the Department of Computer Applications- SRM IST, in association with TechJedi on 03.09.2022.

11. EIGHTS DAYS NATIONAL LEVEL VIRTUAL FACULTY DEVELOPMENT PROGRAMME ON 21st CENTUARY DEVELOPMENT IN INVENTIONS AND INNOVATIONS: A QUALITY INITIATIVE IN TEACHING AND LEARNING STRATEGIES from 20.6.2022 to 27.6.2022.

Achievements and Awards:

Academic / Professional Membership:
- ➤ **IFERP Premium Membership**
- ➤ **CSI Membership**
- ➤ **IAENG Membership**

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