



## **FACULTY PROFILE TEMPLATE FOR WEBSITE**

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### **Basic Details:**

- **Name:** Ms. N. Revathi
- **Designation:** Assistant Professor
- **Phone Number:** 6382795491
- **Email Id:** [revathin3@srmist.edu.in](mailto:revathin3@srmist.edu.in), [revathiphd3@gmail.com](mailto:revathiphd3@gmail.com).
- **Area of Specialization:** Data Mining, Big data analytics, Machine Learning.
- **Affiliation:** Department of Computer Science and Applications , Ramapuram Campus, SRM University.

### **Educational Details:**

- **Degree –** M.Sc [IT]., MPhil., Ph.D.[Pursuing]
- **Area or Subject –** Information Technology, Computer Science, Big data Analytics
- **University –** Anna University, Periyar University
- **Awarded Year –** 2013, 2016.

### **Other Details:**

**Research Interests:** Data Mining, Big Data Analytics.

### **Patent Published:**

1. N. Revathi and Dr. P. Sengottuvelan, “**Designing an Intelligent Irrigation System using IoT and Cloud computing**”, Official Journal of Patent office: Application No. 202241033617A Published on Jun 2022.

### **Selected Publications:**

1. P. Sengottuvelan, N. Revathi, “An Transpire Trends Survey on Knowledge Innovation of Data Mining and Web Mining”, International Journal of Innovations in Engineering and Technology (IJJET, ISSN: 2319-1058), Volume 7, Issue 3, (2016), pp. 374-377.
2. P. Sengottuvelan, N. Revathi, “A Review on Predictive Analytics for Big Data Applications”, International Journal of Innovative and Emerging Research in Engineering (IJIERE, ISSN: 2394-5494), Volume 4, Issue 6, (2017), pp. 44-49.
3. P. Sengottuvelan, N. Revathi, “A Review on Big data Applications in Industries”, International Journal of Modern Computer Science (IJMCS, ISSN: 2320-7868), Volume 5, Issue 3, (2017), pp. 67-72.
4. P. Sengottuvelan, N. Revathi, “A Review on Research Issues in Data mining Technique”, International Journal of Innovations & Advancement in Computer Science (IJIACS, ISSN: 2347-8616), Volume 6, Issue 10, (2017), pp. 295-298.
5. N. Revathi and P. Sengottuvelan, “Time Aware Service Recommendation Method for Map Reduce Function”, International Journal of Research in Applied Science & Engineering Technology (IJRASET, ISSN 2321-9653 ), Volume 6, Issue 4, (2018), pp. 575-579.
6. N. Revathi and P. Sengottuvelan, “Simple Hadoop Map Reduce Function on Parallel Implementation Using Genetic Algorithms”, International Journal of Research in Advent Technology (IJRAT, ISSN: 2321-9637), Volume 6, Issue 6, (2018), pp. 1019-1025.
7. N. Revathi and P. Sengottuvelan, “Future Trends and scopes of Big Data Analytics in the field of Agriculture”, Research Review International Journal of Multidisciplinary (RRIJM, ISSN: 2455-3085), Volume 4, Issue 05, (2019), pp. 577-581.
8. N. Revathi and P. Sengottuvelan, “IoT and Big Data Framework for Paddy cultivation”, International Journal of Recent Technology and Engineering (IJRTE, ISSN: 2277-3878), Volume 8, Issue 02, (2019), pp. 4341-4348. (SCOPUS).
9. N. Revathi and P. Sengottuvelan, “Real Time Irrigation Scheduling Through IoT in Paddy Fields”, International Journal of Innovative Technology and Exploring Engineering (IJITEE, ISSN 2278-3075), Volume 8, Issue 10, (2019), pp. 4639-4647. (SCOPUS).
10. N. Revathi and P. Sengottuvelan, “A survey on modern day trends in water level and quality analysis system”, Journal of Physics: Conference Series, Volume 1964 (2021), Art. ID 042078, 10 pp. (SCOPUS).

#### **Book Chapter Publications:**

1. Tamilvanan K., Loganathan K., and Revathi N. “HUR Stability Results of Mixed-Type Additive-Quadratic Functional Equation in Fuzzy  $\beta$ -Normed Spaces by Two Different Approaches”. In: Pradip Debnath, S.A. Mohiuddine (eds) Soft Computing Techniques in Engineering, Health, Mathematical and Social Sciences. (2021) CRC Press, pp. 63-92.

2. Tamilvanan. K., Mohiuddine, S.A., Revathi. N, “**Ulam Stability of Mixed Type Functional Equation in Non-Archimedean IFN-Space**”, Soft Computing: Recent and Applications in Engineering and Mathematical Sciences, (2023), 10 pp. 167-178. (SCOPUS).

### **Work in Progress:**

With Dr.P.Sengottuvelan, “Paddy Yield Prediction based on Big Data Images from Satellite Imagery”

### **Research Experience: Full Time Research Scholar in Periyar University (6 Years)**

**Thesis Title: A Smart Agriculture Framework for Design and Development of IoT-Based Paddy Cultivation Using Satellite Imagery**

### **Presented Papers:**

1. Presented a paper in the **6<sup>th</sup> International Conference on “Innovative Trends in Engineering, Life Science and Business (ICITESB 2016)”** held on 09 &10 Sep 2016 Organized by IOSRD-International organization of Scientific Research and Development, Chennai.
2. Presented a paper in the **IEEE International Conference on “Science, Technology, Engineering and Management (ICSTEM 2017)”** held on 03 & 04 March, 2017 organized by Scientific Research and Development, held at KIT- Kalaignar karunanidhi Institute of Technology, Coimbatore.
3. Presented a paper in the **National Level Seminar on “IOT Challenges”** held on 16 March, 2017 organized by PG Department of Computer Applications, held at Kongu College of Arts and Science, Dharmapuri.
4. Presented a paper in the **IEEE Sponsored International Conference on “Science and Technology, Engineering and Management (ICONSTEM 2017)”** held on 23 & 24 March 2017, held at Jeppiaar Engineering College, Chennai.
5. Presented a paper in the **International Conference on “Science, Technology & Management (ICSTM-2017)”** held on 15<sup>th</sup> October 2017 organized by Conference Info in association with Academic Science at the Institution of Electronics and Telecommunication Engineers, Osmania University Campus, Hyderabad.
6. Presented a paper in the **“International Seminar on Recent Innovations in Information Technology”** held on 11<sup>th</sup> September 2018 organized by PG & Research of Computer Science, Morappur Kongu College of Arts and Science Dharmapuri.

7. Presented a paper in the **International Conference on “New Trends in Mathematical Modeling with Applications (ICNTMMA-2019)”** held on 29<sup>th</sup> & 30<sup>th</sup> July 2019 organized by PG & Research Department of Mathematics, Sri Vidya Mandir Arts & Science College, Uthangarai.
8. Presented a paper in the **National Conference on “Research Innovations and Applications in Computer Science for the Sustainable Development of Rural Learners”** held on 06<sup>th</sup> & 07<sup>th</sup> February 2020 organized by Department of Computer Science, Periyar University Constituent College of Arts and Science, Harur.
9. Presented a paper in the **International Conference on “Innovations in Physical Sciences, Information Technology and Social Sciences (IC-IPIS2020)”** held on 14<sup>th</sup> & 15<sup>th</sup> February 2020 organized by the Sri Vidya Mandir Arts & Science College, Uthangarai.
10. Presented a paper in the **International Conference on “Human Machine Interaction In The Digital Era (ICHMIDE - 2023)”**, in association with **AIMST University, Malaysia and Computer Society of India, Chennai Chapter**, held on 24<sup>th</sup> February 2023 organized by Department of Computer Science and Applications, SRM Institute of Science and Technology, Ramapuram, Chennai -89.

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