

**Name of the Staff** : S.G. Janani Ratthna  
**Designation** : Assistant Professor  
**Date of joining in the college** : 07.01.2023  
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#### **Educational Qualification**

| <b>Educational Qualification</b> | <b>Branch</b>                                           | <b>Name of the Institution/University</b>    | <b>Yr. of Passing</b> | <b>% of Marks</b> | <b>Class / Division</b> |
|----------------------------------|---------------------------------------------------------|----------------------------------------------|-----------------------|-------------------|-------------------------|
| Ph.D                             | Faculty of Computer Science and Information Engineering | Anna University, Chennai                     | Pursuing              | -                 | -                       |
| M.E                              | Computer Science and Engineering                        | Thiagarajar College of Engineering, Madurai. | 2013                  | 7.67 (CGPA)       | First Class             |
| B.TECH                           | Information Technology                                  | National College of Engineering, Tirunelveli | 2011                  | 71                | First Class             |

#### **Professional Experience**

| <b>Designation</b>  | <b>Institution/Organization</b>          | <b>Period</b>         | <b>Nature of Duties</b> |
|---------------------|------------------------------------------|-----------------------|-------------------------|
| Assistant Professor | National Engineering College, Kovilpatti | 07.01.2023to Till Now | Teaching                |

**Area of Interest:** Predictive Analytics, Machine Learning (ML), Artificial Intelligence (AI), Virtual Reality (VR), Augmented Reality (AR).

#### **List of International Conference**

| <b>S.No</b> | <b>Name of the Faculty</b> | <b>Title of Paper</b>                                                                             | <b>Name of the Conference</b>                                                                                                        | <b>Year of publication</b> |
|-------------|----------------------------|---------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| 1           | S.G.Janani Ratthna         | Home Rental Finding Platform using Mern                                                           | International Journal of Innovative Science and Research Technology (IJSRT)                                                          | Jan 28, 2026               |
| 2           | S.G.Janani Ratthna         | Institutional Placement Data Management System                                                    | 2025 IEEE first International Conference on Innvations in Engineering and Next-Generatin Technologies for Sustainability (ICINVENTS) | Mar 03, 2026               |
| 3.          | S.G.Janani Ratthna         | The Role of Metaverse Technology in Education: A Framework for Implementation and Future Research | Students Conference on Engineering and Systems (SCES-2024)                                                                           | June 21-23, 2024           |

|    |                    |                                                                                                 |                                                                            |                   |
|----|--------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------|
| 4. | S.G.Janani Ratthna | Survival Analysis of the Lung Cancer patients using Kaplan Meier Estimator Using Survival Table | 7 <sup>th</sup> International Conference on Intelligent Computing (IConIC) | March 22-23, 2024 |
|----|--------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------|

### List of National Conferences

| S.No | Name of the Faculty | Title of Paper                                                  | Name of the Conference                                                      | Year of Publication |
|------|---------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------|---------------------|
| 1.   | S.G.Janani Ratthna  | Secure Two Factor Authentication using Mobile One Time Password | PSG-ACM National Conference on Intelligent Computing(NCIC2013)              | 2013                |
| 2    | S.G.Janani Ratthna  | A Survey on Mobile Wimax                                        | National Conference on Recent Trends in Information Technology (NCRTIT10)   | 2010                |
| 3    | S.G.Janani Ratthna  | Ensuring Authentication in Wireless Sensor Networks Through UAP | National Conference on Challenges in Soft Computing PET Engineering College | 2010                |

### Short term Courses/Seminar/Conference/Workshop Attended

| S.No | Institution                               | Topic                                                         | Course Detail       | Date                     |
|------|-------------------------------------------|---------------------------------------------------------------|---------------------|--------------------------|
| 1    | Velammal institute of technology, Chennai | Cybersecurity Essentials: Safeguarding Digital Infrastructure | FDP                 | 18.08.2025 to 22.08.2025 |
| 2    | NPTEL Certification Course (IIT - Madras) | Foundations of Virtual Reality                                | NPTEL Certification | 01.07.2024 to 31.08.2024 |
| 3    | ICT Academy, National Engineering College | Microsoft Power BI Data Analyst Associate                     | FDP                 | 26.05.2025 to 30.05.2025 |
| 4    | Velammal Institute of Technology, Chennai | Deep Dive into Deep Learning: Tools and Techniques            | FDP                 | 27.01.2025 to 31.01.2025 |
| 5    | National Engineering College, Kovilpatti  | Mentoring and Counselling skills for Teachers                 | NITTTR              | 26.08.2024 to 30.08.2024 |
| 6    | National Engineering College, Kovilpatti  | Deep Learning- An Industrial Approach and Hands-on Training   | FDP                 | 16.08.2024, 17.08.2024   |
| 7    | NPTEL Certification Course (IIT - Madras) | Design Thinking- A Primer                                     | NPTEL Certification | 01.07.2024 to 31.08.2024 |
| 8    | NPTEL Certification Course (IIT - Madras) | Python for DataScience                                        | NPTEL Certification | 01.07.2024 to            |

|    |                                           |                                                                                                                     |                                    |                          |
|----|-------------------------------------------|---------------------------------------------------------------------------------------------------------------------|------------------------------------|--------------------------|
|    |                                           |                                                                                                                     |                                    | 31.08.2024               |
| 9  | National Engineering College, Kovilpatti  | Instructional Design and Delivery Systems                                                                           | Professional Development Programme | 16.05.2024 To 18.05.2024 |
| 10 | GITAM School of Technology, Bengaluru     | Generative AI and Metaverse: Tools and Technologies for Improving the Teaching Learning Process in Higher Education | AICTE Sponsored ATAL FDP           | 04.12.2023 to 19.12.2023 |
| 11 | NPTEL Certification Course (IIT - Madras) | Design Thinking–A Primer                                                                                            | FDP                                | 01.07.2023 to 31.08.2023 |
| 12 | NPTEL Certification Course (IIT - Madras) | Design Thinking–A Primer                                                                                            | NPTEL Certification                | 01.07.2023 to 31.08.2023 |
| 13 | NPTEL Certification Course (IIT - Madras) | Computer Graphics                                                                                                   | NPTEL Certification                | 01.07.2023 to 31.08.2023 |
| 14 | National Engineering College              | Compiler Design                                                                                                     | FDP                                | 31.7.2023 to 05.08.2023  |
| 15 | National Engineering College              | Stochastic Approximation Algorithms                                                                                 | 2 days Instructional Course        | 27.4.2023 & 28.4.2023    |
| 16 | National Engineering College              | MATLAB Fundamentals and Machine Learning with MATLAB training                                                       | Math Works Training                | 16.2.2023 & 17.2.2023    |
| 17 | Coimbatore Institute of Technology        | Application Deployment Techniques in Cloud                                                                          | 2days Workshop                     | 15.2.2013 & 16.2.2013    |
| 18 | National College of Engineering           | Network Simulation Using NS-2                                                                                       | 1day National Level Workshop       | 10.3.2012                |

### Short term Courses/Conference/Workshops/Seminars Organized

| S.No | Topic                                                             | Courses/ Workshops Organized | Duration                 | Number of Participants | Venue                                    |
|------|-------------------------------------------------------------------|------------------------------|--------------------------|------------------------|------------------------------------------|
| 1    | AR Unlocked: Creating Immersive Experiences with Vuforia & Unity  | Workshop Organised           | 25.03.2026               | 40                     | National Engineering College, Kovilpatti |
| 2    | Immersive Innovation: AR/VR in Healthcare, Industry and Education | Workshop Organised           | 09.08.2026               | 43                     | National Engineering College             |
| 3    | Game Development using Unity                                      | Workshop Organised           | 20.06.2024 to 22.06.2024 | 27                     | National Engineering College             |
| 4    | Creative Designing with                                           | Value Added                  | 03.02.2024 to            |                        |                                          |

|   |                           |                    |                          |    |                              |
|---|---------------------------|--------------------|--------------------------|----|------------------------------|
|   | Figma Tool                | Course             | 15.03.2024               | 75 | National Engineering College |
| 5 | Interactive Web designing | Value Added Course | 17.06.2023 to 14.09.2023 | 44 | National Engineering College |

#### **R&D Projects: Research Projects Sanctioned (Completed)**

| <b>S.No</b> | <b>Title of the Project</b>                                    | <b>Principal Investigator</b> | <b>Co-Investigator</b> | <b>Funding Agency</b> | <b>Amount</b> | <b>Period</b> |
|-------------|----------------------------------------------------------------|-------------------------------|------------------------|-----------------------|---------------|---------------|
| 1.          | “FashioNXT: Augmented Reality for Personalized Fashion Try-On” | Mr.J.Karthikeyan              | Ms.S.G.Janani Ratthna  | NewGen IEDC           | Rs.1,00,000   | 2023-2024     |

#### **Book Chapter:**

| <b>S.No</b> | <b>Name of Book</b>                                                          | <b>Title of the Book Chapter</b>                                                                                     | <b>Scopus/SCI</b> | <b>Year of publication</b> | <b>DOI</b>                |
|-------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------|-------------------|----------------------------|---------------------------|
| 1.          | Cybersecurity and Data Management Innovations for Revolutionizing Healthcare | Advancing Healthcare Through Data Science Techniques for Comprehensive Analysis and Visualization of Healthcare Data | Scopus            | July2024 (pp 1-15)         | 10.4018/979-8-3693-7457-3 |

