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**Name: Kayathri K**

Email : [**kayathri.k@amjaincollege.edu.in**](mailto:kayathri.k@amjaincollege.edu.in) **,** [**gayathri.vijayaanand@gmail.com**](mailto:gayathri.vijayaanand@gmail.com)

**Mobile No: 9710910739**

**OBJECTIVE**

* I am a dynamic, innovative, and self-reliant individual eager to contribute to the organization's growth.
* I will use my experience teaching and training in an industrious and fast-growing world.

**EDUCATION QUALIFICATION**

* **Doing Ph.D in Computer Science at Mother Teresa Women’s University, Kodaikanal.**
* **TNSET 2016 Qualified.**
* **M.E (Computer Science)** from **St. Peter’s University** Affiliated to **St. Peter’s University** (2009-2011).
* **M.Sc (Computer Science)** from **E.M.G Yadava Women’s College** Affiliated to Madurai Kamaraj University (2004-2006).
* **M.Phil (Computer Science)** from Madurai Kamaraj University (2006-2007).
* **B.Sc (Computer science)** from Govt Arts college for women Affiliated to Madurai Kamaraj University (2001-2004).

**PROFESSIONAL EXPERIENCE - 12 YEARS**

* Currently working as an AssistantProfessor in the Department of Software Applications from June 2017 to the current date at **Agurchand Manmull Jain College, Meenambakkam**, Chennai.
* I have Worked as **Assistant Professor** in the Computer Science department from Jan 2008 to Jan 2012 (4 Years) at Sriram College of Arts and Science College**,** Perumalpattu, Thiruvallur(D.T), Chennai.

**JOURNAL PUBLICATIONS**

1. “**CGSX Ensemble: An Integrative Machine Learning and Deep Learning Approach for Improved Diabetic Retinopathy Classification**” – **Scopus Index** – International Journal of Electrical and Electronics Research **(IJEER)**– ISSN: 2347-470X, Issue 2 volume: 12, June 2024.
2. “**Advancing Diabetic Retinopathy Detection and Severity Classification using Dynamic SwishNet-181**” – **Scopus Index** – International Journal of Intelligent Systems and Applications in Engineering – ISSN: 2147-67992147, Issue: 2024, 12(20s), 61–77.
3. **“An Ensemble Approaches to Improve Diabetic Retinopathy (DR) Detection and Severity Classification from Retinal Fundus Images” -** Springer Series “Lecture Notes in Networks and Systems**”. Indexed by SCOPUS,** ISSN: 2367-3389- Issue: 2025.
4. **“Enhancing Diabetic Retinopathy Detection and Severity Classification through Dynamic SwishNet-181” –** **Scopus Index -Springer** - Issue: 2024.
5. “**Combination Of Predictions from Transfer Learning Models for Improved Diabetic Retinopathy Detection in Retinal Fundus Images**” – Scopus - Journal of Data Acquisition and Processing. ISSN: 1004-9037, DOI: 10.5281/zenodo.776896, Issue: Vol. 38 (2) 2023.
6. “**Deep Learning based Automatic Left and Right Eye Identification from Color Fundus Images**” – **Scopus** - Jilin Daxue Xuebao (Gongxueban)/Journal of Jilin University (Engineering and Technology Edition). ISSN: 1671-5497, Issue: 10-2022, DOI 10.17605/[OSF.IO/NGR3Z](http://osf.io/NGR3Z).
7. **“Using Machine Vision Automatic Quality Classification of Black Pepper Seeds”-** International Journal of Research & Analytical Reviews(IJRAR), ISSN: 2348-1269. 12/5/2020.
8. “**A Survey on Classification Algorithms Performance Analysis and Applications of Data Mining in Healthcare**” – **UGC** - Journal of Analysis and Computation (JAC). JAC ISSN 0973-2861, VOL XIII Special Issue, January 2020.

**CONFERENCE PAPER PRESENTATIONS**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **S. No** | **Paper Title** | **National / International** | **Date** | **Organization** |
| 1 | An Ensemble Approaches to Improve Diabetic Retinopathy (DR) Detection and Severity Classification from Retinal Fundus Images | International | 10/01/2025 and 11/01/2025 | 4th International Conference on Mathematical Modeling and Computational Science [ICMMCS 2025] organized by the [Society for Intelligent Systems](https://intellisys-society.org/) in association with the National Taipei University of Business, Taiwan; National University of Science and Technology, Iraq; and Sultan Moulay Slimane University, Beni Mellal – Khenifra region of Morocco. |
| 2 | Enhancing Diabetic Retinopathy Detection and Severity Classification through Dynamic SwishNet-181 | International | 24/04/24 & 25/4/24 | ICONDEEPCOM, Department of Computational Intelligence, School of Computing, SRM Institute of Science and Technology, Chennai - 603203. |
| 3 | Diabetic Retinopathy (DR) Disease Identifying from Fundus Images Using Hybrid CNN Models in Deep Learning | International | 09/01/24 &10/01/24 | International Conference on Sustainable Computing and Future Transition in Technology. Nadar Saraswathi College of Arts & Science, Theni. |
| 4 | Using a Deep Learning Methodology Ensemble Three CNN Models for Identification of Diabetic Retinopathy (DR) from Fundus Images | International | 9/11/23 & 10/11/23 | International Conference on Innovative Trends in IT. Department of Computational Logistics, Alagappa University, Karaikudi. |
| 5 | A Deep Learning Approach for Diabetics Retinopathy Detection System using Convolutional Neural Networks (VGG 16 Model) | National | 23.03.2023 & 24.03.2023 | Department of Information Technology at Dr. M. G. R. Educational and Research Institute, Chennai |
| 6 | Computer-Based Diabetic Retinopathy Detection Using CNN Methodology. | International | 24/02/23 & 25/02/23 | International Conference on “Mathematical Modeling and Computational Science”. Mother Teresa Women’s University, Madurai. |
| 7 | Using Machine Vision Automatic Diabetic Retinopathy Detection through Deep Learning - CNN Methodology: An Overview | International | 27/01/2023 & 28/01/2023 | Integrated Technologies in Computer Applications. Nadar Saraswathi College of Arts and Science, Theni |
| 8 | Review of Non-Communicable Diseases Prediction System Using Data Mining Techniques | International | 15/12/2021 | International Conference on Innovation and Advanced Research in Software Applications. Department of Software Applications. A.M Jain College, Chennai. |
| 9 | A Survey on Classification Algorithms Performance Analysis and Applications of data mining in healthcare. | International | 30.01.2020 | International Conference on Artificial Intelligence and Machine Learning.  Mangayarkarasi College of Arts and Science for Women, Madurai, Tamil Nadu. |
| 10 | Cell Breathing for Load Balancing in wireless LAN’s | National | 25/03/2011 | Bhajarang Engineering College, Veppampattu. Thiruvallur |

SWAYAM NPTEL COURSE COMPLETED

|  |  |
| --- | --- |
| S.no | Course Name |
| 1 | Data Mining |
| 2 | Software Testing |
| 3 | Cloud Computing |
| 4 | Joy of Computing |

### BOOK PUBLISHED

|  |  |  |
| --- | --- | --- |
| S.No | Book Title | ISBN NO |
| 1 | Problem Solving using Python | [ISBN:978-93-89970-55-5](https://drive.google.com/file/d/1k-XzCkJTyN-GmAAfNl1Pj21V2tIGarGv/view?usp=sharing) |

### FDP, WORKSHOPS, SEMINARS ATTENDED, AWARD, SHORT TERM COURSE

|  |  |  |
| --- | --- | --- |
| S.No | Name Of the Event | Total |
| 1 | FDP | 30 |
| 2 | Workshop | 6 |
| 3 | Seminar and Webinar | 35 |
| 4 | Award Received | 4 |
| 5 | Short Term Course | 6 |

**RESPONSIBILITIES & ACHIEVEMENTS**

* Shown 100% results in University Exams
* Aadaidhanam Committee Member
* Discipline Committee Member.
* Grievance Committee Member.
* Class In charge
* Naan Mudhalvan SPOC
* NAAC File Maintenance
* Exam Committee Member.

**TECHNICAL PROFILE**

Area of Specialization: Data Structures, C, C++, Java, OS, DAA, RDBMS, Data Mining,

Deep Learning, Machine Learning, Web Technology

Skills : Teaching, Programming, Debugging Skills, Problem Solving,

Lecturing and Training.

**PERSONAL PROFILE:**

Date of Birth : 05- Mar – 1983.

Gender : Female.

Marriage Status : Married.

Permanent address : K. KAYATHRI

S1, VISHNU HOME,

VSJ NAGAR, 7th cross street, Near ZION INTERNATIONAL

PUBLIC SCHOOL, PUTHUR VILLAGE,

MAPPEDU JN, CHENNAI- 600126.

K. Kayathri