**ANDHRA LOYOLA INSTITUTE OF ENGINEERING AND TECHNOLOGY**
**(Approved by AICTE, New Delhi & Affiliated to JNTU Kakinada)**
**Accredited by NAAC & An ISO 9001:2015 Certified Institution**
**ITI Road, ALC Campus, VIJAYAWADA - 520 008 :: Website : www.aliet.ac.in :: Ph : 0866 - 2476161**

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## FACULTY PROFILE

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| **Name of the Faculty** | **G MUNI NAGAMANI** | |  |
| Designation | **Assistant Professor** | | |
| Department | **Computer Science & Engineering** | | DOB: 12-06-1992 |
| Date of Joining the Institution | **01-07-2024** | | Native: Puttur |
| Qualification with Class/Grade | **UG: B.Tech(CSE), with 75.69% from JNTUA** | | |
| | **PG: M.Tech (CSE), with 80.08% from JNTUA** | | |
| | **Ph.D at VIT-AP University** | | |
| Employee ID | **ALIET-24-26** | | |
| E-Mail | **nagamani@aliet.ac.in** | | |
| Total Experience in Years | **Teaching: 3 years** | **Industry: 3.5 year** | **Research: 3 years** |
| Papers Published in Journals | **07** | | |
| Papers presented in Conferences | **01** | | |
| PhDs / Projects Guided | **Projects at UG Level: 04** | | |
| Books/ Book Chapters Published | **1** (Nagamani, G.M., Karthikeyan, S. (2024). An Architecture of Cyber-Physical System for Industry 4.0. In: Kumar, A., Sagar, S., Thangamuthu, P., Balamurugan, B. (eds) Digital Transformation. Disruptive Technologies and Digital Transformations for Society 5.0. Springer, Singapore.) | | |
| IPRs/Patents | **1** (A System Enabling Region Specific Detection and Depth Estimation of Retinal Diseases, and Method Thereof, filed: 30/01/2024, Published: 09/02/2024, Patent No: 202441005983, Authors: 1. Ms. G Muni Nagamani, 2. Dr. Eswaraiah Rayachoti (Indian Patent Published)) | | |
| Whether Ratified by University (Yes/No) | **No** | | |
| Blog | **muninagamani.blogspot.com** | | |

**Faculty Development Programmes/ Workshops Organised & Attended:**

- Orgnaised a One Week Faculty Development Program on “Outcome Based Education” in Sree Venkateswara College of Engineering, Nellore.
- Participated in Five Days National Level Faculty Development Programme On "EXPLORING COMPUTATIONAL INTELLIGENCE (ONLINE)” organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from 16th July 2024 to 20th July 2024.
- Participated in Five Day Workshop on “Research Methodology" from 2nd August – 6rd August 2022 organized by Academic Research Office, VIT-AP University, Amaravati.
- Participated in the Guest Lecture on Agile Tour – Modern Methodology of Software Delivery organised by School of Computer Science and Engineering, VIT-AP University, Amaravati on 3rd August 2022.
- Participated in the “Five Days Workshop on Optimization Techniques & Applications”, organised by School of Computer Science and Engineering, VIT-AP University, Amaravati from July 26th to July 30th, 2022.
- Participated in the Five Days Workshop on “Skill Development for Academic Research", presented by the Academic Research office, VIT-AP University, Amaravati from 27th December 2022 to 31st December 2022.
- Attended online Faculty Development Program on “Deep Learning for Real Time Research Applications” conducted by Dept. of Computer Science & Engineering, Seshadri Rao Gudlavalleru Engineering College in association with CCE, NITW from 03-01-2022 to 07-01-2022.
- Participated in the “International Workshop on Signal Processing using Machine Learning: Applications & Hands-on (Online)”, organized by the School of Electronics Engineering (SENSE), VIT-AP University, Amaravati (AP), India in association with Centre for Teaching and Learning (CTL) VIT-AP.
- Participated in National Online Workshop on “Research Ethics and Identifying Predatory and Cloned Journals in Publications” organized on 25.11.2022 by Indian Institute of Management and Commerce.
- Participated in One Week National Level Faculty Development Program and Online Training on “PHP and MySQL” hosted by V.K.R, V.N.B & A.G.K College of Engineering, Gudivada, in Association with Spoken Tutorial Project, IIT-Bombay, funded by National Mission on Education through ICT, MHRD, Govt. of India. (18th June to 24th June 2020).

**Other Achievements:**

- Published an article titled “Deep Learning Network (DL-Net) Based Classification and Segmentation of Multi-Class Retinal Diseases Using OCT Scans” in the esteemed journal “Biomedical Signal Processing and Control” with an Impact Factor: 5.1, SCIE – Q1(Subscription).
- Orgnaised a One Week Faculty Development Program on “Outcome Based Education” in Sree Venkateswara College of Engineering, Nellore.
- Completed NPTEL Online Certification for the course “Programming in Java” with 79% in 2019.

**Experience in other Institutions:**

- Working as an Assistant Professor in Andhra Loyola Institute of Engineering & Technology, Vijayawada, Andhra Pradesh from July 2024 to till date.
- Worked as an Assistant Professor in Sri Venkateswara College of Engineering, Nellore, Andhra Pradesh from November 2019 to August 2021.
- Worked as an Assistant Professor in Siddharth Institute of Engineering & Technology, Puttur, Andhra Pradesh from June 2018 to October 2019.
- Worked as an Assistant Professor in Seshachala Degree & PG College, Puttur, Andhra Pradesh from June 2016 to May 2018.
- Worked as Technical Associate in Botree Software International (India) Pvt. Ltd., Chennai, Tamil Nadu from February 2016 to May 2016.
- Worked as Associate Systems Engineer in AIWAY Solutions Pvt. Ltd., Chennai, Tamil Nadu from February 2014 to February 2016.

**List of Publications (Journal/ Conference/ Patent/ Book):**

- Nagamani G.M, and Karthikeyan, S. (2022), Classification of Rare Retinal Disease from Central Nervous Systems using OCT Images. NeuroQuantology 20(6), 9125. (**SCOPUS**).
- Nagamani G.M, and Karthikeyan S. (2022), Comparative Analysis on Deep Learning Algorithms for Detecting Retinal Diseases Using OCT Images. In International Conference on Computational Intelligence and Data Engineering pp. 511-521(**SCOPUS**).
- Nagamani G.M, and Sudhakar T. (2024), An improved dynamic-layered classification of retinal diseases," IAES International Journal of Artificial Intelligence.," IAES International Journal of Artificial Intelligence (IJ-AI) vol. 13, no. 1, pp.417-429 (**SCOPUS**).
- Nagamani, G.M, and Sudhakar T. (2023), Automated classification of age-related macular degeneration from optical coherence tomography images using deep learning approach," IAES International Journal of Artificial Intelligence (IJ-AI) vol. 12, no. 4, pp. 2011-2021(**SCOPUS**).
- Nagamani, G.M, and E Rayachoti. (2024), Deep learning network (DL-Net) based classification and segmentation of multi-class retinal diseases using OCT scans, Biomed Signal Process. Control 88 (2024), 105619 (**SCI**).
- Nagamani, G.M, Jyotsna KSNV, 2021. Machine Learning algorithms for systematic review: reducing workload and reducing human screening error, GIS Science Journal, Volume 8, Issue 1, pp. 971-979.
- Nagamani, G.M, KusumaPriya, V, NagendraBabu, P, 2020. Designing and Development of Secured Architecture in Smart Health Care Systems using the Internet of Things, Industrial Engineering Journal, Volume 49 Issue7, No.1, pp.57-62.
- Nagamani, G.M. and Suneetha, J., 2018. A Shared Protocol for Key Management in Encryption based on Encrypted Text Policy Properties to Share Data in the Cloud, International Research Journal of Engineering and Technology, Volume: 05, Issue: 06, pp. 2008-2013.

- **Utility Patent:** A System Enabling Region Specific Detection and Depth Estimation of Retinal Diseases, and Method Thereof, filed: 30/01/2024, Published: 09/02/2024, Patent No: 202441005983, Authors: 1. Ms. G Muni Nagamani, 2. Dr. Eswaraiah Rayachoti (**Indian Patent Published**)
- **Book Chapter:** Nagamani, G.M., Karthikeyan, S. (2024). **An Architecture of Cyber-Physical System for Industry 4.0.** In: Kumar, A., Sagar, S., Thangamuthu, P., Balamurugan, B. (eds) Digital Transformation. Disruptive Technologies and Digital Transformations for Society 5.0. Springer, Singapore.

**Research Links**






**G MUNI NAGAMANI**

**ASST. PROFESSOR, CSE, ALIET.**