Muneer Variyam Kandy

Assistant Professor | P.G & Research Department of Computer Science |
Sullamussalam Science College | Areekode | Malappuram - 673639

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Profile

Seasoned Assistant Professor (U.G.C NET 13870039) offering 12 years of well-honed teaching experience for Graduate and Post-Graduate courses in Computer Science. Brings along excellent research experience and knowledge across the core subjects in Computer Science specializing in Artificial Intelligence. Acquired Software Industry experience from Infosys Technologies. Relish for diverse and challenging environments where continuous learning and development is the norm.

Specialization

Artificial Intelligence, NLP, Programming Languages

Research summary

International

Publications: 14
Presentations: 9
eBook Chapters: 11

National

Papers in ISBN book: 3
Conference proceedings: 4

About
D.O.B: April 6, 1984

Books Authored: 2
Projects executed: 9

Experience Abstract

Teaching – **Assistant Professor** – *Research Department of Computer Science, Sullamussalam Science College, Areekode [12 years]*

Industrial Experience – **Senior Systems Engineer** – *Infosys Technologies Limited, Trivandrum [1.9 years]*

Nodal Officer – **Innovation and Entrepreneurship Development Centre [7 years]** & *Faculty in Charge* – **RISE TBI of SS College, Areekode [2 years]**

Skills Summary

Hands-on experience at Graduation and Post-Graduation level education facility.

Industrial experience to bridge the Gap between Industry-Academia.

Remarkable ability to teach, inspire and develop young people.

Strong interest in research and updating Technologies.

Skilled in instruction and mentoring of students from different backgrounds.

Excellent written and oral communication skills.

Education

Ph.D. • University of Calicut (2024)
Personalized Travel Recommendation Model in Malayalam Language

M.C.A • Bharathiar University Coimbatore (2008)
Graded First Class with Distinction (77.76 %)

B.Sc. Computer Science • University of Calicut (2005)
Graded First Class (75.57 %)

Class 12th • Board of Higher Education • Kerala (2002)
Graded First Class with Distinction (80 %)

S.S.L.C • Board of Higher Education • Kerala (1999)
Graded First Class (78.33 %)

Professional Networks

LinkedIn : https://www.linkedin.com/in/muneer-hussain-947827a9/
Research Gate : https://www.researchgate.net/profile/Muneer Vk/
Scopus : https://www.scopus.com/authid/detail.uri?authorId=57453736500
Alumni Infosys: https://alumni.infosys.com/app-wall/app- generichome/generictemplate/18
Orcid ID : https://orcid.org/my-orcid?orcid=0000-0002-5517-2462

Research Experiences

International Publications & Book Chapters

1. **The evolution of travel recommender systems, A comprehensive review** [UGC CARE Listed] Muneer V.K, Dr. Muhamed Basheer KP, Malaya Journal of Matematik, Vol. 8, No. 4, 1777-1785, 2020 https://doi.org/10.26637/MJM0804/0075.

2. **An intelligent travel recommender system by mining behavioral attributes from online travelogues in Malayalam – a low resourced language**, Muneer V.K, Mohamed Basheer K.P, European Chemical Bulletin [Scopus Indexed], 2023; Volume -12 , doi: 10.48047/ecb/2023.12.si5a.0349

3. **A Comparative Study Of Collaborative Filtering And Content-Based Approaches For Improving The Accuracy Of Travel Recommender Systems For Malayalam Language**. Muneer V.K, Dr. Mohamed Basheer K.P, https://www.ijana.in/V14-6.php, DOI: 10.35444/IJANA.2023.14608.

4. **A Collaborative Destination Recommender Model in Dravidian Language by Social Media Analysis**. Muneer V.K, Dr.Mohamed Basheer KP, https://link.springer.com/chapter/10.1007/978-981-19-7615-5_45#chapter-info

5. **Smart device controlling through voice commands given in Malayalam Language** [UGC CARE Listed] Muneer VK, Dr. Muhamed Basheer KP, Rababa Kareem Kollathodi, Malaya Journal of Matematik, Vol. S, No. 1, 445-450, 2019., https://doi.org/10.26637/MJM0S01/0079.

6. **Rainbow Technology Decidedly Nurtures Storage Trends,** Muneer VK, Dr. Satheesh Kumar J, International Journal for Technical Engineering Systems, Vol 3.No.1 2012, ISSN: 0976-1345 pp.17-19.

7. **Real time Person recognition and attendance marking using holistic based approach,** Muneer V.K, Reshma P and Mohammed Ilyas P, International Journal of Advanced Research in Computer Science and Software Engineering (IJARCSSE) in July 2017 ISSN(online):2277128X ISSN(print):22776451.

8. **Qualitative Prediction and Recognition's of Ongoing Human Action Sequences Using Deep Neural Networks,** Muneer V.K, Rizwana Kallooravi Thandil, Dr. Muhamed Basheer K.P, Proceedings of the Third International Conference on Intelligent Sustainable Systems [ICISS 2020], DOI: 10.1109/ICISS49785.2020.9315962, ISBN: 978-1-7281-7089-3/20/$31.00 ©2020 IEEE.

9. **Fake News Detection and Prediction Using Machine Learning Algorithms,** Thezniya Naslin, Muneer V.K, International Journal of Computer Science and Information Technologies, Vol. 12 (3), 2021, 81-85, ISSN:0975-9646.

10. **Natural Language Processing of Malayalam Text for predicting its Authenticity,** Rizwana Kallooravi Thandil, Mohamed Basheer K.P, Muneer V.K, http://dx.doi.org/10.2139/ssrn.3972525, https://papers.ssrn.com/sol3/papers.cfm?abstract_id=3972525.

11. **A Hybrid Cardiovascular Disease Prediction System using Machine Learning Algorithms.** Muneer V.K, Ramseena N, Rizwana Kallooravi Thandil, Dr Mohamed Basheer K.P, eBook - "Artificial Intelligence and Speech Technology", Chapter 53, pg 487-496, ISBN: 9781003150664 (eISBN), DOI: 10.1201/9781003150664, CRC Press, Routledge, **Taylor and Francis.**

12. **Collaborative Travel Recommender Model Based on Malayalam Travel Reviews.** Muneer, V.K., Basheer, K.P.M. https://link.springer.com/chapter/10.1007/978-3-030-95711-7_53., Communications in Computer and Information Science- book series, Online ISBN: 978-3-030-95711-7, 3rd International conference on Artificial Intelligence and Speech Technology AIST2021. **Springer.**

13.   Online Malayalam Script Assortment and Preprocessing for Buildings Recommender Systems.
Muneer V.K, Dr. Muhamed Basheer KP, 5th International conference on smart computing and informatics (SCI-2021), https://link.springer.com/chapter/10.1007/978-981-16-9669-5_5, Smart Innovation, Systems and Technologies. (SIST) Series- **Springer**.

14.   **End-to-End Multi-dialect Malayalam Speech Recognition Using Deep-CNN, LSTM-RNN, and Machine Learning Approaches**, Rizwana Kallooravi Thandil, K. P. Mohamed Basheer & V. K. Muneer, 2022. Lecture Notes on Data Engineering and Communications Technologies, vol 163. Springer, Singapore. https://doi.org/10.1007/978-981-99-0609-3_3

15**.   A Multi-feature Analysis of Accented Multisyllabic Malayalam Words—a Low-Resourced Language**, Rizwana Kallooravi Thandil, K. P. Mohamed Basheer & V. K. Muneer ,Lecture Notes in Networks and Systems, vol 660. Springer, Singapore. https://doi.org/10.1007/978-981-99-1203-2_21

16.   **End-to-End Unified Accented Acoustic Model for Malayalam-A Low Resourced Language**. Speech and Language Technologies for Low-Resource Languages . SPELLL 2022. Communications in Computer and Information Science, vol 1802. Springer, Cham. https://doi.org/10.1007/978-3-031-33231-9_25

17.   **Empowering Accented Speech Analysis in Malayalam Through Cutting-Edge Fusion of Self Supervised Learning and Autoencoders**, Rizwana Kallooravi Thandil, Mohamed Basheer K.P. and Muneer V.K. International Journal ofINTELLIGENT SYSTEMS AND APPLICATIONS IN ENGINEERING, VOL. 12 NO. 9S, 2023, https://ijisae.org/index.php/IJISAE/article/view/4269.

18.   **Deep Spectral Feature Representations Via Attention-Based Neural Network Architectures for Accented Malayalam Speech—A Low-Resourced Language**. Thandil, R.K., Mohamed Basheer, K.P., Muneer, V.K, Proceedings of Data Analytics and Management. ICDAM 2023. Lecture Notes in Networks and Systems, vol 788, https://doi.org/10.1007/978-981-99-6553-3_1.

19**.   A Hybrid Travel Recommender Model Based on Deep Level Autoencoder And Machine Learning Algorithms**, Muneer V.K, & Mohamed Basheer K.P., Journal of Advanced Zoology, 44(5), 1150–1159., 2023, https://jazindia.com/index.php/jaz/article/view/3571.

20.   **E2E accent-robust ASR for low-resourced malayalam language: A feature-based investigation of LSTM-RNN and ML approaches**, Rizwana Kallooravi Thandil; K. P. Mohamed Basheer; Muneer Variyam Kandy, AIP Publishing, SECOND INTERNATIONAL CONFERENCE ON COMPUTING AND COMMUNICATION NETWORKS (ICCCN 2022), https://doi.org/10.1063/5.0184392.

21. **Utilizing BiLSTM For Fine-Grained Aspect-Based Travel Recommendations Using Travel Reviews In Low Resourced Language**, Muneer VK, Basheer KPM, Thandil RK., Jouranal of Electrical Systems Vol. 20 No. 2s (2024), http://journal.esrgroups.org/jes/article/view/1133.

22. **Study of An AI-Powered Vehicle Monitoring System: An Ensembled Approach for Intelligent Surveillance**, Muneer V.K, Azil A, International Journal of Recent Engineering Science, 2024, https://doi.org/10.14445/23497157/IJRES-V11I2P107

23. **A Stereovision-based Approach for Retrieving Variable Force Feedback in Robotic-Assisted Surgery Using Modified Inception ResNet V2 Networks**, P. V. Sabique, Ganesh Pasupathy, S. Kalaimagal, G. Shanmugasundar & V. K. Muneer, Journal of Intelligent & Robotic Systems, 2024, https://doi.org/10.1007/s10846-024-02100-8

24. I**ncorporating Seasonal Trends for River Water Quality Prediction Models Using Deep Learning Algorithms**, Jitha P. Nair, Binu Mol T. V., Deepika A., Aparna Unnikrishnan, Muneer V. K., International Journal of Intelligent systems and applications in engineering. VOL. 12 NO. 21S, 2024, https://ijisae.org/index.php/IJISAE/article/view/6193/4984

International/National Conferences

Papers Presented

1. **Customized Datamining and Part of Travelogue Tagging of Malayalam Texts for a Recommender Model,** International Conference on "Innovations and Recent Trends in Computer Science", 25 March 2022. St. Martin's Engineering College, Telungana.

2. **Collaborative Travel Recommender Model Based on Malayalam Travel Reviews,** 3rd International conference on Artificial Intelligence and Speech Technology AIST2021, 12-13 November 2021, IGDTW Delhi, Conference Proceeding published in Book series of **Springer**.

3. **Online Malayalam Script Assortment and Pre-processing for Buildings Recommender Systems,** 5th International conference on smart computing and informatics (SCI-2021), 17- 18th September, 2021, publishing in association with **Springer**.

4. **Natural Language Processing for Malayalam Text and its Authenticity,** International Conference on Emerging Trends in Signal Processing, 24-26 September 2021, GEC Calicut. Proceedings published in SSRN of Elsevier.

5. **Qualitative Prediction and Recognition's of Ongoing Human Action Sequences Using Deep Neural Networks** 3rd International Conference on Intelligent Sustainable Systems ICISS2020, 3-5 December 2020. Publication Partner - **IEEE**

6. **A Hybrid Cardiovascular Disease Prediction System Using Machine Learning Algorithms,** 2nd International Conference on Artificial Intelligence and Speech Technology, IGDTUW Delhi, 20 November 2020. Publication Partner - **Taylor and Francis.**

7. **Smart Device Controlling through Voice Commands given in Malayalam Language,** MESMAC International Conference at MES College, Mampad, 17 January 2019.

8. **Domain specific Data Compression Algorithms in Rainbow Technology,** National Conference on Advances in Computing, Communication and Application ACCA'13 on 20,21. November 2013.

9. **Impact of Rainbow Technology on high density storage,** National seminar on Inculcation of Research Culture for Quality Enhancement, Vimala College Trissur, 25-26 November 2010.

Administrative Experiences

- **Nodal Officer**, Innovation and Entrepreneurship Development Cell [IEDC], SS College. 2015-present

- **Question paper setter**, Computer Science- Kannur University.2020-2021

- **Coordinator**, Criterion 4, AQAR of NAAC committee of Sullamussalam Science College, Areekode.2020-2021

- **Coordinator**, Programming Club, Travel and Tourism Club Sullamussalam Science College, since 2018

- **General Secretary**, Alumni Association, Sullamussalam Science College Areekode. 2014-17.

- **Coordinator**, Career Guidance and Placement Cell, Sullamussalam Science College Areekode. 2014-17.

- **Coordinator**, Smart Lab, Sullamussalam Science College Areekode, 2014-2015

- **Coordinator**, ACM Student Chapter, Sullamussalam Science College Areekode, 2012-2013.

Projects Undertaken

➢ **Innovation and Entrepreneurship Development Centre [IEDC] projects**

Since 2015, Innovation and Entrepreneurship Development Centre of SS College being one of the **premium IEDC's** in the state with remarkable achievements and activities. Volunteers bagged several prizes from various colleges, conducting several outreach events, Monthly **TechTalk** series, **Robotics workshop** at various campuses are few highlighted events. We could build up **5 startup** companies which are successfully running in Cyber parks in Kerala. Because of this vibrancy, our IEDC has been **recognized as TBI**, which is the **first Arts and Science College** in Kerala upgraded as TBI with 10 lakh startup grant from Kerala Start up Mission. [Role: Nodal Officer]

➢ **Covidind.info** - An Innovative and Interactive dashboard to update all real-time changes happening about Covid-19 in Globally, Indian , State wise and District wise in Kerala During this Lockdown days. This project was recognized and appreciated by Malappuram District Collector and also grabbed attention of international audience. [Role: Project coordinator]

➢ **Irfaa.ca** - A Canadian LIVE project undertaken and successfully completed by Graduate students in 2020. During pandemic, the students sitting from their home, communicated and coordinated this overseas project in a professional manner. The website address is https://www.irfaa.ca/. [Role : Project Coordinator]

➢ **SSUnited Disaster Relief** - A collective venture by students, staff, Alumni and Management of College to extend helping hands to the people who were facing difficulties during the flood and landslides in 2018 and 2019. [Role : In charge of Coordination and Implementation]

➢ **SMILE Exchange**- Sullamussalam Manthan Integrated Learning Exchange Programme, A 10 days Socio Cultural Students Exchange Programme between SS College and Manthan Sansthan, Kotri - Rajastan in 2019 and 2020. A dozen of Multi-talented students visited Manthan and exchanged their skills in various domains and experienced Rajastani life and culture. We could bring 10 students from Rajastan villages and experienced Kerala lifestyle, nature, education and Infrastructure as part of SMILE Project. [Role: Project Coordinator]

➢ **Scitex'10** - An international IT Exhibition to demonstrate the recent trends in advancement in Information Technology, 2010 January 4-5. Recent advancements in information technology and products introduced in campus.

➢ **Sanchari Notebook** – The intention of this project is to extending helping hands to needy students by providing complete school accessories (books, instrument box, umbrella, drawings, tiffin box and a bag) kits by crowdsourcing stationary items from various shops in different parts of Kerala. Every year, during the beginning of academic year, the coordinators distribute school kits to the school authorities. Around 2500 kids avail this facility every year. [Sanchari - District Coordinator]

➢ **Sanchari Well project at Rajastan villages** – 5 wells in 5 different villages in Rajastan as part of social outreach programme of sanchari Travel Group. Bure ki Basti, Talbani, Surali, Barmer are few villages benefited by this project. [Role: Central Coordination committee member]

➢ **Karma Disaster Management Team** – This is a well-trained group of volunteers dedicated for social service and serves people during accidents, floods, landslides and such natural calamities. Karma could extend remarkable contributions to the Government and the Society for the past few years by manpower, machinery and technical expertise. [Role: Founder Trustee Member]

➢ **Good Earth Organization** - This is a non-profit society exclusively for environmental activities.

Invited Talks / Subject Expert

- *Tools and Methodologies in Industry based Academic Projects*, Amal College of Advanced Studies in Collaboration with School of Computer Science, MG University,7 December 2020.

- *Emerging Research Trends in Computer Science*, Majlis Arts and Science College, Puramannur, 30 September 2020.

- *Scope of Innovative thoughts in Students*, Department of Computer Science, MAMO College, Manasseri,27 March 2019

- *Trends in Computer Science* **in Association with Digital India Project**, Govt. Arts College, Kondotty. 02 July 2017.

- *Scope of Robotics*, GHSSS Perumparamba, Areekode, 25 October 2019.

- Represented **as Subject Expert** in Interview Panel for the Post of Assistant Professor (Contract) at MAMO College, Manasseri. 01 June 2019 and 02 June 2020.

- Represented as **Subject Expert** of Trilingual Glossary of Engineering in Malayalam (English-Hindi-Malayalam) at ICFOSS from 18-21 June 2024, organized by CSTT, D/o Higher Education, Ministry of Education, Government of India, Delhi

Participation and Engagements

- Attended a 14 days **Summer School at ICFOSS** (International Centre for Free Open Source Solutions) on the topic Applied NLP and Unstructured Data analytics on 4 May 2022 to 17 May 2022, Trivandrum.
- Attended a 4 days **Management Development Programme** for IEDC Nodal Officers sponsored by Kerala Startup Mission at **Indian Institute of Management, Kozhikode**

- Attended a 5 day Certificate course on **Designing and Facilitating Effective Learning Experiences** from April 17th to 22nd 2017 at **Azim Premji University Bangalore**

- Participated a One week Science Conclave- an International congregation with **Nobel Laureates at IIIT**- Allahabad (6th), Uttar Pradesh, 8-14 December 2013.

- **IBM Certified** Application Developer on WebSphere Commerce Server. May 2012

- Week-long e-Faculty Development Programme on **Cloud Computing** conducted by HRDC, University of Kashmir. 20th-25th July 2020.

- One Week Faculty Development Programme cum workshop on **Artificial Intelligence and Speech Technology** conducted by Indira Gandhi Delhi Technical University in association with IBM, Delhi,17 - 21 August 2020.

- Attended a short-term course in model-based problem solving, offered by Prof.Dr.Habil, Peter Struss, Technical University, Munich, Germany, Organized by the School of Computer Science and Engineering, Vellore Institute of Technology, Chennai, December 10 -15 2022.

- Attended a 2 weeks online Refresher course on Information Communication Technology, conducted by HRDC, Himachal Pradesh University, Shimla from 10/07/2023 to 22/07/2023.

- Participated in the 5 days faculty development program on Online Education in Higher Education Institutions, conducted by Kerala State Higher Education Council (KSHEC) in association with EMMRC of University of Calicut from 19th to 23rd October 2020.

Workshops Organized/ Attended

- Organized a Two-day Faculty Development workshop on **Applied Artificial Intelligence and Data Science** in association with ACM Student Chapter, SS College. 16-17 December 2019.

- Organized a two-day workshop on **Foundation Skills on Entrepreneurship** supported by ICT Academy of Kerala and Kerala Startup Mission on 9th and 10th August 2018.

- Organized a 3-day **photography workshop for girl students PICTHER** on 7th to 9th September 2018 in association with the women's forum of the college.

- Organized a state level idea **presentation contest on Rebuilding Kerala** on 15th October 2018.

- Organized a two-day **National level Travel Fest** on 23rd and 24th November 2018.

- Organized a hands-on National level Workshop **on Robotics-Robodays.** 11th - 12th of January 2019.

- Organized a **Five-day Residential Eco Restoration programme at Muthanga** Wildlife Sanctuary in Association with Kerala Wildlife and Forest Department.

Assistance to Students as Resource Persons [Innovative Mentoring]

- Hands-on- Robotics Workshop conducted by IEDC volunteers at MAMO College Manasseri

- Hands-on- Robotics Workshop conducted by IEDC volunteers at Dayapuram Arts and Science College, Dayapuram

- Hands-on- Robotics Workshop conducted by IEDC volunteers at GHSS Perumparamba

- Hands-on- Robotics Workshop conducted by IEDC volunteers at Majlis Arts and Science College

- A two day Workshop on Artificial Intelligence conducted by IEDC volunteers at Govt. Polytechnic College Kozhikode.

- A weeklong Certificate course on Flutter Mobile application development.

Achievements

- Published a Book titled **'Bengal Diary Kurippukal'**, a Malayalam Travelogue with ISBN: 978-93-90404-19-3 [2021]

- Published a Book Titled '**Himavante Uyarangalil'**, a Malayalam Travelogue with ISBN 978-93-94056-29-9.

- Award for **Extra ordinary Social work** during the Natural Disaster and flood in Kerala 2018. Awarded by Hon. Revenue Minister, Kerala.

- ➢ Recognized by **Malappuram District Collector** for developing the Interactive AI Enabled Dashboard for live updates on Covid Pandemic. Covidind.info [2020-2021]

- ➢ **Primary Resource Person**, Centre for Information and Guidance, India -CIGI Calicut. [2020-2021]

- ➢ Award for **Effective utilization of Information Technology in Tourism**, Kerala Tourism Department 2015-16, Admin member of Facebook Group, Sanchari.

- ➢ Award for **Best travelogue by DySP** of Thamarasseri Police Station on behalf of JCI Omassery Chapter.

- ➢ Published articles in Mathrubhumi Yatra Magazine and Koodu Magazine.

All Certificates are attached online:

https://docs.google.com/spreadsheets/d/1CsKwiQpPCSkzCDkfrCvdrVMpVkWMCGQy/edit?usp=sharing&ouid=106889278365730885333&rtpof=true&sd=true

Disclaimer

I hereby declare that all the above information is correct and accurate to the best of my knowledge.

Muneer V.K

Areekode
22-06-2024