

Najla Musthafa

*Assistant Professor in
Computer Science and
Engineering*

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Professional Summary

NET-qualified Assistant Professor in Computer Science and Engineering with over 15 years of diverse teaching experience across India and the Middle East. Strong research background in AI, Data Science, and Health Informatics. Highly experienced in curriculum development, NBA accreditation coordination, and academic leadership.

Areas of Interest

Data Science, Machine Learning, Deep Learning, Health Informatics, AI in Healthcare

Core Skills

Languages	Python, C, C++, SQL
Frameworks	TensorFlow, Keras, Scikit-Learn
Tools	Google Colab, Excel, LaTeX
Academic	Google Classroom, Research Writing, Curriculum Design

Academic Background

2021–Present	Ph.D. in Health Informatics , APJ Abdul Kalam Technological University, Kerala, India
2004–2006	M.Tech in CSE , NIT Calicut, Kerala, India
2000–2004	B.Tech in Information Science and Engineering , VTU Belgaum, Karnataka, India

Professional Experience

2015–Present	Assistant Professor , MEA Engineering College, Perinthalmanna, Kerala, India ○ Teaching B.Tech and M.Tech courses in Computer Science ○ Guided numerous UG/PG projects in AI/ML ○ Coordinated NBA Criterion 2 documentation
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- 2011–2012 **Assistant Professor**, *Royal College of Engineering, Thrissur*, Kerala, India
Taught UG-level CS courses and assisted in academic audit preparation.
- 2011 **Adhoc Lecturer**, *NIT Calicut*, Kerala, India
Jan–May Assisted in conducting practical labs and tutorials in core computing subjects.
- 2009–2010 **Lecturer, MIS**, *King Saud University*, Riyadh, Saudi Arabia
Handled MIS courses for Management students.
- 2008–2009 **Senior Lecturer**, *University of Hail*, Saudi Arabia
Worked as academic advisor and conducted undergraduate lectures.

Leadership and Contributions

- 2022–25 **Criteria Head, Criterion 2** – NBA Reaccreditation, MEA Engineering College
- 2024–25 Coordinator, AICTE ATAL Proposal on AI and Data Science
- 2023 Panelist, Rajya Stariya Bal Vaigyanik Pradarshani (RSBVP)
- 2022–23 Syllabus Committee, ADT301: Foundations of Data Science
- 2022 Panelist, HOPE Expo, Govt Polytechnic Perinthalmanna
- 2020 Session Chair, ICCCES 2020, MEA Engineering College

Research Publications

- Journal Articles**
- "Survey on Object Detection Using Deep Reinforcement Learning," *Recent Trends in AI and Its Applications*, Vol. 2, No. 1, 2023, pp. 33–40.
 - "Real-time Indian Sign Language Recognition System," *Materials Today: Proceedings*, Elsevier, 2022. DOI: <https://doi.org/10.1016/j.matpr.2022.03.011>
 - "Fake News Detection Using Convolutional Neural Networks," *International Journal of Computer Science and Information Security*, Vol. 18, No. 6, 2020.
 - "Domain Generation Algorithm Detection Using CNN and LSTM," *MEA Journal of Engineering and Applied Sciences*, Vol. 1, 2020.

- Conference Papers**
- "EfficientNet-Based and YOLO-Driven Brain Tumor Detection and Segmentation," ICCPCT 2025.
 - "Scalable Architecture for Personalized Recommendations and In-App Payments," ICAAI 2025.
 - "Risk Assessment and Mitigation Tool for Cardiovascular Disease," ICCIDT-2K24, 2024.
 - "Comprehensive Risk Assessment for Diabetes in Indian Population," ICSCC 2023.
 - "Tomato Plant Disease Identification Using Deep Reinforcement Learning," ICSCC 2023.
 - "Precise Localization of Optic Disc Region for Glaucoma Diagnosis," ICIET 2023.

Workshops and FDPs

- 2025 Future-Proofing Research with AI Tools, COE Vadakara (6-day FDP)
- 2025 National FDP on Cybersecurity, NCSS
- 2024 NLP to LLM FDP, College of Engineering Kidangoor (5-day)
- 2024 AI in Biomedical Applications, St. Peter's Institute, Chennai
- 2023 Machine Learning Operations (MLOps), Chandigarh University (5-day FDP)
- 2023 Image Processing and Computer Vision Using Python, GEC Palakkad (3-day TEQIP-II FDP)
- 2022 AI in Healthcare, VIT (Online FDP)
- 2022 Computational Intelligence and Bio-inspired Systems, Rajagiri School of Engineering and Technology (5-day FDP)

Invited Talks

- 2025 Application of AI and ML in various non-circuit programs - FDP on OBE, Accreditation and Quality Education, MEA Engineering College
- 2021 Data Science with Python – SES College, Kannur
- 2021 Data Science with Python – IES College of Engineering, Thrissur
- 2020 Data Science with Python – TACS Webinar Series, MEA Engineering College, Perinthalmanna
- 2019 Natural Language Processing with Python – VT Bhattathiripad College, Sreekrishnapuram

NPTEL Certifications

- 2025 Real Time Operating Systems – Elite (Top 5%)
- 2024 Software Conceptual Design – Elite + Gold

- 2024 Systems and Usable Security – Elite
- 2023 Body Language: Key to Professional Success – Silver Medalist
- 2023 Effective Engineering Teaching in Practice – Elite
- 2022 Essential Mathematics for Machine Learning
- 2022 Deep Learning – Elite
- 2020 Data Science for Engineers
- 2019 Python for Data Science – Silver Medal

References

- Dr. K. Najeeb HoD, CSE, MEA Engineering College
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- Dr. Abdul Professor, NIT Calicut
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- Dr. Raji C. G. Assumption College
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