

DR. MOHD OMAR

ASSISTANT PROFESSOR

Department of Computer Science & Information Technology,
School of Technology,
Maulana Azad National Urdu University (Central University under Ministry of Education),
Hyderabad, Telangana, India
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CURRICULUM VITAE

PROFESSIONAL PROFILE

PROFILE

Currently working as Assistant Professor (Selection Grade Scale) in Department of Computer Science and Information Technology, School of Technology, Maulana Azad National Urdu University (Central University), Hyderabad, Telangana, India, (Since 9th October, 2014).

AREAS OF SPECIALIZATION

RESEARCH AREAS

Computer Vision and Deep Learning
Artificial Intelligence and Machine Learning
Big Data Analytics and Database Systems
Intelligent Transportation Systems and Internet of Things

EDUCATIONAL QUALIFICATIONS

PhD. PhD in Computer Science, Maulana Azad National Urdu University, Hyderabad.

M.TECH. M.Tech in Computer Science, Jawaharlal Nehru Technological University Hyderabad. Hyderabad.

B.TECH B.Tech in Information Technology, Jawaharlal Nehru Technological University Hyderabad. Hyderabad.

ACADEMIC AND TEACHING EXPERIENCE

TEACHING

Teaching and academic engagement across undergraduate and postgraduate programmes, including B.Tech, MCA, M.Tech and PhD.

COURSES

Software Engineering; Object-Oriented Programming; Cloud Computing and Virtualization; Database Management Systems; Web Technology; Computer Fundamentals and Programming; Python ; Mini Projects, Major Projects and M.Tech (Dissertation Supervision).

RESEARCH PUBLICATIONS – JOURNALS

Omar, M., & Kumar, P. (2024). PD-ITS: Pothole Detection Using YOLO Variants for Intelligent Transport System. *SN Computer Science, 5(5).*

VT, M. A., **Omar, M.**, Ahamad, Ahmad, K., & Khan, M. A. (2024). Deep Learning-Based Speed Breaker Detection. *SN Computer Science, 5(5).*

Omar, M., & Kumar, P. (2024). Evaluating the Efficacy of Computer Vision in Predicting and Detecting Road Damage for Intelligent Transport Systems. *International Journal of Intelligent Systems and Applications in Engineering, 12(3).*

Ahsan, M. A., Ahmad, K., Ahamed, J., **Omar, M.**, & Ahmad, K. B. (2023). PAPQ: Predictive Analytics of Product Quality in Industry 4.0. *Sustainable Operations and Computers, Elsevier.*

Hussain, D., **Omar, M.**, Ahmad, K. A., & Ahamad, K. (2021). Performance Comparison between NoSQL (RethinkDB) and MySQL Database Replication from Master to Slave in Big Data. *Jurnal Kejuruteraan SI, 4(2).*

Ahamed, J., Zahid, M., **Omar, M.**, & Ahmad, K. (2020). AES and MQTT Based Security System in the Internet of Things. *Journal of Discrete Mathematical Sciences & Cryptography.*

Husain, D., **Omar, M.**, Ahmad, K., & Jain, V. (2019). Load Status Evaluation for Load Balancing in Distributed Database Servers. *3C Tecnología.*

CONFERENCE PROCEEDINGS

Omar, M., & Kumar, P. (2021). Detection of Roads Potholes using YOLOv4. International Conference on Information Science and Communications Technologies (ICISCT 2020).

Omar, M., & Kumar, P. (2022). Image Features Selection Based on Computer Vision Techniques to Detect Potholes for Intelligent Transport System.

PATENT

G Habib, I Ahmed, J Ahamed, **O Mohd**, IA Malik "Computer Dashboard with Embedded Al Decision Support System" Date of Registration: 15/10/2024, GB Patent No. 6395681,

ACADEMIC EVENTS, FDPS AND WORKSHOPS

Induction Programme for Newly Appointed Assistant Professors, UGC-HRDC, MANUU (2016).

Refresher Course in Computer Science, Bioinformatics & Information, UGC-HRDC, MANUU (2017).

Workshop on Big Data Analytics and Deep Learning, MJCET (2018).

Data Science Technologies and Next Generation AI, MJCET (2019).

FDP on Sensor Networks, IoT and Internet of Everything, MANUU/DST (2019).

FDP on Artificial Intelligence, MANUU/AICTE-ATAL (2019).

FDPs on Python, Machine Learning, Python for Data Science, Universal Human Values, AR/VR and Data Science (2020–2021).

Refresher Course in Computer Science & IT, UGC-HRDC, MANUU (2022).

FDP on Artificial Intelligence and Quantum Machine Learning (2023).

Emerging Research Trends in Computer Science, MANUU (2024).

FDP on Deep Learning with Python, NIT Warangal (Online, 17–27 November 2025)

INVITED LECTURES AND RESOURCE PERSON

Delivered a resource lecture on Value Education (UHV), MANUU (11 October 2021).

Served as resource person for sessions on E-Content Development and Online Pedagogy, UGC-HRDC MANUU (25 and 26 October 2021).

Nominated as Course Coordinator for the NEP 2020 Sensitization and Orientation program scheduled to be held online from 22nd to 31st July, 2024.

ACADEMIC AND ADMINISTRATIVE RESPONSIBILITIES

Member, Board of Studies, Department of CS&IT.

Member, IQAC and NAAC Committee; Member, School-level IQAC Committee.

Member, Student Welfare, Student Skill Training Development, Co-Curricular, Magazine/Newsletter/Publication and Admission Committees.

Contributed to syllabus design, paper setting, examination duties, student mentoring and supervision, and coordination of academic events.

Coordinator, AICTE Work Committee and AICTE Committee; Coordinator, MHRD/UGC Committee.

Faculty Class Coordinator; Project Review Committee Member for B.Tech. and MCA.

Member, National Innovation and Startup Policy (NISP);

Member in Institute Induction Programme Cell (IIPC); NIRF and ATAL Ranking Committee.

RESEARCH GUIDANCE AND SUPERVISION

DETAILS OF SUPERVISION

PhD (CS) **(Ongoing)**

S.No	Name	Year
1.	Mujahid Pasha Syed	2023
2.	Hajira Fathima	2025
3.	Mujawar Rizwan Ahmed Babaso	2025
4.	Abdulrub Bin Mohsin	2025

M.TECH (CS)

S.No	Name	Title	Year
1	Dildar Husain	Load Balancing in NOSQL Database	2017
2	Shaid Jamal	Routing Protocols in VANET- A comparative study	2018
3	Md. Mahfooz Alam	AI-based Traffic Congestion Control System	2019
4	Alisha Raza	Road Crack Detection and segmentation for Autonomous driving	2021
5	MD Ziaul Haque	Handwritten Hindi Character Reorganization Using Multiple Classifiers in Machine Learning	2022
6	Mohamed Anas VT	DP Based Speed Breaker Detection	2023
7	Raziya Tabassum	Mango Leafnet Unveiling Disease Patterns Through Transfer Learning in Leaf Classification	2024
8	Md Ahmad Reza	Educational Outcomes Through Predictive Modelling Of Student Performance	2025
9	Shagufta Parween	Artificial Intelligence Driven Insight for Proactive Asthma Attack Prediction	2026

PROFESSIONAL MEMBERSHIPS

MEMBERSHIPS

International Association of Engineers (IAENG) – Membership from 7 April 2014.

The Society of Digital Information and Wireless (SDIWC) – Membership from 31 March 2015.

The Indian Science Congress Association (ISCA) – Membership from 1 September 2015

SHORT BIOGRAPHY

BIOGRAPHY	Dr. Mohd Omar is an Assistant Professor in the Department of Computer Science & Information Technology, School of Technology, Maulana Azad National Urdu University, and Hyderabad. He holds a Ph.D. in Computer Science. His teaching and research interests include artificial intelligence, machine learning, deep learning, computer vision, big data analytics, and intelligent transportation systems. His research work includes Deep Learning approaches, IoT security, database systems, and predictive analytics. He has published journal and conference papers and has guided postgraduate students in diverse areas of computer science.

DECLARATION

DECLARATION	I hereby declare that the information furnished above is true to the best of my knowledge and belief.
PLACE	Hyderabad
DATE	9-11-2026
SIGNATURE	Dr. Mohd Omar