Dr. Yasir Rashid

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Profile

I am an Assistant Professor at Islamic University of Science and Technology, with expertise in Artificial Intelligence, Social Network Analysis, and drug discovery using Graph Convolutional Networks, as well as Healthcare Analytics through Deep Learning. My research focuses on developing advanced machine learning models for complex real-world problems, particularly in healthcare and network-based systems. I have published several research papers in internationally reputed journals indexed in SCI and Scopus. In addition, I have authored two books and contributed a chapter to an academic volume. I have also participated in various international conferences.

Work Experience

Assistant Professor — March 2026 – Present
Islamic University of Science and Technology — *Kashmir*

Guest Faculty — Mar. 2018 – May 2019
Department of School Education, J&K — *Srinagar, India*

Guest Faculty — Jan. 2017 – Nov. 2017
Department of School Education, J&K — *Srinagar, India*

Network Support Engineer — Jan. 2016 – Dec. 2016
Rooman Technologies (ISO 2008 Company)

Internship — Jan. 2015 – May 2016
Swarnim Infosoft Pvt. Ltd.

Education

Islamic University of Science and Technology — 2020 – 2025
PhD, Department of Computer Science — *Kashmir*

- Social Networks Analysis using Graph Convolution Networks; Drug Discovery using GCN

IMS Dehradun (affiliated to Uttarakhand Technical University, Dehradun) — 2013 – 2016
MCA, Master of Computer Applications — *Dehradun*

IMS Dehradun (affiliated to HNBGU Central University, Garhwal) — 2010 – 2013
Bachelor's in Information Technology — *Dehradun*

Exams Qualified

UGC NET (Computer Science and Applications) — June 2019
Qualified for Assistant Professor — *MANF-JRF*

Oracle Certified Associate (OCA) — 2013
1Z0-007 Introduction to Oracle 9i: SQL — *1Z0-147 Program with PL/SQL*

Publications

Research Papers

[1] Rashid, Y., & Bhat, J. I. (2024). OlapGN: a multi-layered graph convolution network-based model for locating influential nodes in graph networks. *Knowledge-Based Systems*, 283, 111163.

[2] Rashid, Y., & Bhat, J. I. (2024). An insight into topological, machine and Deep Learning-based approaches for influential node identification in social media networks: a systematic review. *Multimedia Systems*, 30(1), 1–25.

[3] Rashid, Y., & Bhat, J. I. (2024). Topological to deep learning era for identifying influencers in online social networks: a systematic review. *Multimedia Tools and Applications*, 83(5), 14671–14714.

[4] Rashid, Y., & Bhat, J. I. (2023). Unlocking the Power of Social Networks with Community Detection Techniques for Isolated and Overlapped Communities: A Review. *Indian Journal of Science and Technology*, 16(25), 1857–1871.

[5] Rashid, Y., et al. (2021). Synergistic Fusion: Graph Convolution Networks Integrating Structural and Machine Learning Approaches for Influential Node Identification Using Graph Convolution Networks. *NeuroQuantology*, 19(2), 355–372. doi:10.48047/nq.2021.19.2.NQ21060

[6] Rashid, Y., et al. (2020). Mapping of Interconnected Social Groups in Online Networks and Exploring Digital Spaces for Community Detection. *NeuroQuantology*, 18(4), 60–73. doi:10.48047/nq.2020.18.4.NQ20162

[7] Nissa, N., Jamwal, S., & Rashid, Y. (2022). An Experimental Investigation Towards the Detection of Cardiovascular Disease at an Early Stage by Employing Techniques of Machine Learning and Deep Learning. *NeuroQuantology*, 20(13), 2820–2829. doi:10.14704/nq.2022.20.13.NQ88351

[8] OGCN-CCI: A Graph Convolutional Network Framework for Detecting Cross-Community Influencers in Overlapping Social Networks. *[Submitted]*

[9] An Experimental Study on Coronary Artery Disease Prediction based on MRI Images using Deep Learning. *[Submitted]*

Books Published

[1] *Information Technology/Information Enabled Services: Domestic Data Entry Operator.* ISBN: 978-93-95125-23-9. Category: Academic. Catalogue: Computing and Information Technology. ID: SB20299.

[2] *Employability Skills for Communication.* ISBN: 978-93-95125-22-2. Category: Academic. Catalogue: Reference. ID: SB20298.

Book Chapters

[1] Nissa, N., Jamwal, S., Bhat, J. I., Rashid, Y. (2024). Data Collection and Analysis: The Foundation of Evidence-Based Research in Various Disciplines. In: Sheikh, J. A., Khan, T., Kanaujia, B. K. (eds) *Intelligent Signal Processing and RF Energy Harvesting for State of art 5G and B5G Networks*. Energy Systems in Electrical Engineering. Springer, Singapore. doi.org/10.1007/978-981-99-8771-9_9

Conferences

[1] **Detection of Influential Users in Online Social Networks: A Technological Review**
National Conference on Recent Innovations in Emerging Computing Technologies

[2] **Exploring Influence and its Implications in Online Social Networks: A Review**
3rd International Conference on Innovations in Management & Information Technology (ICIMIT-23)

[3] **Community Detection in Online Social Networks: A Survey**
2nd International Conference on Applied Mathematics & Computational Sciences (ICAMCS-2022)

[4] **Deep Learning Based Framework for Prediction of Coronary Artery Disease**
3rd International Conference on Innovations in Management & Information Technology (ICIMIT-23)

Awards

[1] MANF-JRF Fellowship

Workshops

[1] One-week workshop conducted by University of Kashmir on Research Methodology and Research Ethics, 16–22 November 2021.

[2] Workshop on Convergence of HPC and Artificial Intelligence at IUST Kashmir, 2–3 November 2022.

[3] Workshop at NIIT Dehradun, Rajpur Rd Centre, on Oracle Database 10g (Introduction to SQL, PL/SQL Fundamentals, Administration Workshop I, Administration Workshop II), 1 March 2012 – 31 December 2012.

[4] Workshop on Java Technology of DUCAT at IMS Dehradun, 17 October 2014.

[5] Workshop on Information Security and Ethical Hacking at Custard Apple Technologies, 19–20 May 2012.

[6] Course on Java (J2SE, J2EE) at Technical Solutions, registered firm under Govt. of Uttarakhand, 1 January 2013 – 30 April 2013.

[7] Course on Core Java, Advanced Java (Swing, JDBC, Network Programming, RMI) at Mehuli Enterprises UNISOFT Technologies, 10 September 2014 – 29 November 2014.

[8] Professional Development Program at IMS Dehradun, 7 August 2014 – 30 November 2014.

[9] Course on Applications of MySQL and PHP at NIIT Dehradun (48 hours).

[10] One-day capacity-building workshop on the Use of High Performance Computing in AI and Image Processing for Skill Development Department (Polytechnic sector, Jammu and Kashmir), organized by the Departments of Computer Science and Engineering and Computer Science, IUST Kashmir, 23 March 2023.

[11] Campus Recruitment Training Program (CRTP) conducted by Career Launcher, 27 August 2013 – 15 November 2013.

[12] Campus Recruitment Training Program (CRTP) conducted by Career Launcher, 7 August 2014 – 30 November 2014.

Extra-Curricular Activities

Active Participations

[1] Lecture series on the Use of High Performance Computing in Artificial Intelligence and Image Processing (3 lectures).

[2] Participated in Musical Activity at IMS Dehradun and secured 2nd position.

Competitions

[1] LAMHE-2012 IT-QUIZ, 2 April and 28 April: First Position.

[2] LAMHE-2012 LORD OF CODE, 2 April and 28 April: Second Position.

[3] Academic Event Logical Ability Test, 18 March 2013: Second Position.

[4] Academic Event Programming Competition on C and C++, 5 February 2013: First Position.

Technical Skills

Programming Languages: Python, C, C++, Java
Data Analysis: Pandas, NumPy, PyG
Data Visualization: matplotlib, seaborn
Machine Learning and Deep Learning: scikit-learn, TensorFlow, Keras, PyTorch, PyG, DGL
Database Management: MySQL, SQL Server, Oracle 10g

Personal Information

Date of Birth: 14 April 1990
Languages: English and Urdu (Professional Working Proficiency); Kashmiri (Native)
Official Address: Department of Computer Science, Islamic University of Science and Technology, 1-University Avenue, Awantipora, Pulwama, 192122, Jammu and Kashmir
Residential Address: CheckPora Kalan, Kenihama, Nowgam Byepass, Srinagar, 190015, Jammu & Kashmir, India