PERSONAL INFORMATION

Mohammad Rifat Ahmmad Rashid, PhD

Present Address:
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Date of birth 01/08/1987 | **Nationality** Bangladeshi

WORK EXPERIENCES

Feb 2022 – Present
Assistant Professor
East West University (EWU), Bangladesh

Oct 2019 – Feb 2022
Assistant Professor
University of Liberal Arts (ULAB), Bangladesh

Sep 2018 – Sep 2019
Researcher
LINKS Foundation – Leading Innovation & Knowledge, Italy
▪ Worked as data scientist in the European Union (EU) Horizon 2020 projects:
- MONSOON: Model-based control framework for Site-wide optimization of data-intensive processes.
- BRAIN-IoT: Model-based framework for dependable sensing and actuation in intelligent decentralized IoT systems.

Nov. 2014 – Aug. 2018
Graduate Researcher
JOL MobiLAB (Mobile Social Application Lab) Telecom Italia,

Polytechnic University of Turin, Italy.

▪ Worked as software engineer in a collaborative project on energy consumption analysis for mobile devices with TIM JOL MOBILAB.
▪ Worked as researcher in the European Union (EU) Horizon 2020 project Open4citizen.
▪ Worked as researcher in the area of data quality analysis, semantic web, and knowledge graph profiling.

Sep. 2011 – Sep. 2012
Lecturer

Bangladesh University of Business and Technology (BUBT), Bangladesh

▪ Worked as a lecturer in the department of computer science and engineering.
▪ Worked on various project related to data analytics.

Feb. 2010 – Apr 2011
Oracle Faculty Member
IT Bangla Ltd, Bangladesh
▪ Worked as oracle database administrator.

Dec. 2009 – Aug. 2010
Software Engineer
Silicon Info Tech
▪ . Worked as software engineer in a ERP system backend design.

RESEARCH EXPERIENCES & COLLABORATIONS

2018 -- 2021
European Union (EU) Horizon 2020 Projects:
- MONSOON: Model-based control framework for Site-wide optimization of data-intensive processes.
- BRAIN-IoT: Model-based framework for dependable sensing and actuation in intelligent decentralized IoT systems
LINKS Foundation – Leading Innovation & Knowledge, Italy

2016 – 2018	Project: A Quality Assessment and Validation Approach for Evolving Knowledge Bases Instituto Superiore Mario Boella (ISMB), Ontology Engineering Group Universidad Politecnica de Madrid (UPM) and Politecnico di Torino Italy Position: Graduate Researcher
2017	Project: Knowledge Base Quality Assessment using Temporal Analysis Ontology Engineering Group, Universidad Politecnica de Madrid (UPM) Position: Visiting PhD Student Advisor: Prof. Oscar Corcho
2014 - 2018	Project: Energy Efficient Computing JOL MobiLAB (Mobile Social Application Lab) Telecom Italia Position: Researcher Co-ordinator: Marco Marengo
2013 – 2014	Project: Integrated Real-time Mobility Assistant (IRMA) University of Pavia Position: Researcher Advisor: Prof. Gianmario Motta

EDUCATION

2014 - 2018

Ph.D. in Computer and Control Engineering

Department of Control and Computer Eng. (DAUIN), Polytechnic University of Turin, Italy

- Thesis Title: "Automated Knowledge Base Quality Assessment and Validation Based on Evolution Analysis."

2012 - 2014

Master of Science in Computer Engineering

University of Pavia, Italy

Marks (out of 110): 102

- Thesis Title: '' A Platform for City Data Integration and Alert Manager with Social Media Data (Point of Interest)."

2005 – 2009

Bachelor of Science in Computer Science and Engineering
CGPA (out of 4): 3.76 (Distinction)

Khulna University, Bangladesh

- Thesis Title: '' A Progressive Image Transmission Method Based on Discrete Wavelet Transform (DWT)."

2004

Higher Secondary Certificate (HSC) | Science

Jahanabad Cantonment Public School and College, Khulna

GPA (out of 5): 4.40

2002

Secondary School Certificate (SSC) | Science

Khulna Zilla School, Khulna

GPA (out of 5): 4.50

LANGUAGE SKILLS

Mother tongue(s)	Bengali				
Other language(s)	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	C2	C2	C2	C2	C2
Italian	A2	A2	A2	A2	A1

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user
Common European Framework of Reference for Languages

TECHNICAL SKILLS

R and Python for scientific programming (Data Analysis, Machine Learning, Deep Learning, etc.).
Platform: Spyder, LabView
Python Libraries: Matplotlib, Sckit-Learn, Keares TensorFlow, PyTorch
Programming languages: C/C++ and Java.
Other programming languages: PHP, Android Development.
▪ Familiar with: C#, JavaScript and OpenCV

Certifications   Oracle Certified Database Administrator Oracle 10g
Test ID: OC0890586

Coursera Course Certificates
▫ Neural Networks and Deep Neural Networks
▫ Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization

PUBLICATIONS

Journal
- **M.R.A. Rashid**, Md S. Hossain, M.D. Fahim, Md S. Islam, R.H. Prito, Md S.A. Sheikh, Md S. Ali, M. Hasan, and M. Islam, "Comprehensive dataset of annotated rice panicle image from Bangladesh". Data in Brief, 51, (2023), p.109772. https://doi.org/10.1016/j.dib.2023.109772. **(Web of Science and SCOPUS-Cited Publication) [Impact Factor: 1.2]**

- **M.R.A. Rashid**, K.F. Hasan, Md. R. Hasan, A. Das, M. Sultana, M. Hasan, "A Comprehensive Dataset for Sentiment and Emotion Classification from Bangladesh E-Commerce Reviews". Data in Brief, 2023, ISSN 2667-3053. **(Web of Science and SCOPUS-Cited Publication) [Impact Factor: 1.2]**

- R.A. Rizvee, T.H. Orpa, A. Ahnaf, Md A. Kabir, **M.R.A. Rashid**, M.M. Islam, M. Islam, T. Jabid, and Md S. Ali, "LeafNet: A proficient convolutional neural network for detecting seven prominent mango leaf diseases". Journal of Agriculture and Food Research, 14, (2023), p.100787. https://doi.org/10.1016/j.jafr.2023.100787 **(Web of Science and SCOPUS-Cited Publication) [Impact Factor: 3.8]**

- M.M.A. Joy, I.J. Bushra, R. Ayshee, S. Hasan, S.B. Hassan, Md. S. Ali, O. Farrok, **M.R.A. Rashid** and M. Islam, "Contactless Surveillance for Preventing Wind-Borne Disease using Deep Learning Approach". International Journal of Advanced Computer Science and Applications (IJACSA), 13(11), (2022), http://dx.doi.org/10.14569/IJACSA.2022.0131190. **(Web of Science and SCOPUS-Cited Publication) [Impact Factor: 0.376]**

- I.A. Emu, N.T. Niloy, B.M.A. Karim, A. Chowdhury, F.T. Johora, M. Hasan, T. Mittra, **M.R.A. Rashid**, T. Jabid, M. Islam, Md S. Ali, "ArsenicSkinImageBD: A comprehensive image dataset to classify affected and healthy skin of arsenic-affected people". Data in Brief, Volume 52, 2024, p.110016, ISSN 2352-3409, https://doi.org/10.1016/j.dib.2023.110016. **(Web of Science and SCOPUS-Cited Publication) [Impact Factor: 1.2]**

- Md M. Mukto, M. Hasan, Md M.A. Mahmud, I. Haque, Md A. Ahmed, T. Jabid, Md S. Ali, **M.R.A. Rashid**, M.M. Islam, M. Islam, "Design of a real-time crime monitoring system using deep learning techniques". Intelligent Systems with Applications, Volume 21, 2024, p.200311, ISSN 2667-3053, https://doi.org/10.1016/j.iswa.2023.200311. **(SCOPUS-Cited Publication) [Impact Factor: 1.12]**

- ASM Shihavuddin, **Mohammad Rifat Ahmmad Rashid**, Md Hasan Maruf, Muhammad Abul Hasan, Mohammad Asif ul Haq, Ratil H. Ashique, Ahmed Al Mansur, "Image based surface damage detection of renewable energy installations using a unified deep learning approach," Energy Reports,Volume 7,2021,Pages 4566-4576.(**Web of Science and SCOPUS-Cited Publication) [Impact Factor: 1.2]**

- Md. Nasim Adnan, Md. Majharul Haque, **Mohammad Rifat Ahmmad Rashid**, Mohammod Akbar Kabir, Abu Sadat Mohammad Yasin and Muhammad Shakil Pervez, "*Comprehensive Interaction Model for Cloud Management*", International Journal of Advanced Computer Science and Applications (IJACSA), 11(8), 2020.

- Md. Majharul Haque, Md. Nasim Adnan, Mohammod Akbar Kabir, **Mohammad Rifat Ahmmad Rashid**, Abu Sadat Mohammad Yasin and Muhammad Shakil Pervez, "*An Innovative Approach of Verification Mechanism for both Electronic and Printed Documents*", International Journal of Advanced Computer Science and Applications(IJACSA), 11(8),2020.

- Md. Asifuzzaman Jishan, Khan Raqib Mahmud, Abul Kalam Al Azad, **Mohammad Rifat Ahmmad Rashid**, Bijan Paul, Md. Shahabub Alam, "Bangla language textual image description by hybrid neural network model", Indonesian Journal of Electrical Engineering and Computer Science, September 2020, ISSN: 2502-4752.

- **Rashid, Mohammad**, Marco Torchiano, Giuseppe Rizzo, Nandana Mihindukulasooriya, and Oscar Corcho. "A quality assessment approach for evolving knowledge bases." *Semantic Web,* 10, no. 2 (2019): 349-383.

- **Rashid, Mohammad Rifat Ahmmad**, Giuseppe Rizzo, Marco Torchiano, Nandana Mihindukulasooriya, Oscar Corcho, and Raúl García-Castro. "Completeness and consistency analysis for evolving knowledge bases." *Journal of Web Semantics,* 54 (2019): 48-71.

- **Rashid, Md Rifat Ahmmad**, Mir Tafseer Nayeem, Kamrul Hasan Talukder, and Md Saddam Hossain Mukta. "A Progressive Image Transmission Method Based on Discrete Wavelet Transform (DWT)." *International Journal of Image, Graphics and Signal Processing* 4, no. 10 (2012): 18.

Book Chapter

- **Mohammad Rifat Ahmmad Rashid**, Davide Conzon, Xu Tao, and Enrico Ferrera. "*Privacy Awareness for IoT Platforms: BRAIN-IoT Approach.*" In Book: Security and Privacy in the Internet of Things: Challenges and Solutions, Vol. 27 of Ambient Intelligence and Smart Environments (2020): Page 24, ISBN: 978-1-64368-052-1, DOI: 10.3233/AISE200003.
- **Mohammad Rifat Ahmmad Rashid**, Davide Conzon, Xu Tao, and Enrico Ferrera. "*Privacy Awareness, Risk Assessment, and Control Measures in IoT Platforms: BRAIN-IoT Approac*h", In book: Security Risk Management for the Internet of Things: Technologies and Techniques for IoT Security, Privacy and Data Protection., Jan 2020. DOI: 10.1561/9781680836837.ch4.
- B. Paul, A. Roy, K.R. Mahmud, and **M.R. Rashid**, "Real-Time Data Analysis of COVID-19 Vaccination Progress Over the World". In Data Science for Effective Healthcare Systems, pp. 79-88. Chapman and Hall/CRC, 2022. **[Book Chapter] (SCOPUS-Cited Publication).**

Conference

- M. Mahajebin, **M.R.A. Rashid**, and N. Mansoor, "Mood Classification of Bangla Songs Based on Lyrics". In International Conference on Information, Communication and Computing Technology, pp. 585-597. Springer Nature Singapore, 2023.
- Md Huzaifa, F.B. Fabin, N.T. Natasha, I. Fakir, S.A. Falguni, M. Hasan, and **M.R.A. Rashid**, "DeepTestDroid: A Platform for Automated Application Testing Using Deep Learning". In 2023 4th International Conference on Big Data Analytics and Practices (IBDAP), pp. 1-6. IEEE, 2023.
- N. Vasker, A.R.A. Sowrov, M. Hasan, Md S. Ali, **M.R.A. Rashid**, and M.M. Islam, "Unmasking Ovary Tumors: Real-Time Detection with YOLOv5". In 2023 4th International Conference on Big Data Analytics and Practices (IBDAP), pp. 1-6. IEEE, 2023.
- K.F. Arpa, T. Mittra, T. Ferdous, N. Jahan, R.A.K. Tayna, M. Hasan, **M.R.A. Rashid**, and Md S. Ali, "A Machine Learning and Deep Learning Integrated Model to Detect Criminal Activities". In 2023 4th International Conference on Big Data Analytics and Practices (IBDAP), pp. 1-6. IEEE, 2023.
- A. Haque, M. Hasan, S.A. Suma, N. Vasker, Md M. Ashhab, Md S. Ali, **M.R.A. Rashid**, and M.S.H. Khan, "Detecting Pneumonia from X-Ray Images of Chest using Deep Convolutional Neural Network". In 2023 4th International Conference on Big Data Analytics and Practices (IBDAP), pp. 1-6. IEEE, 2023.
- S. Nath, M.M. Islam, A. Chowdhury, **M.R.A. Rashid**, M. Islam, T. Jabid, and R. Naha,

"Comprehensive Analysis of Feature Extraction Techniques and Runtime Performance Evaluation for Phishing Detection". In 2023 6th International Conference on Applied Computational Intelligence in Information Systems (ACIIS), pp. 1-6. IEEE, 2023.

- N.A. Bosunia, M. Hasan, J. Prity, J.J. Jabin, **M.R.A. Rashid**, R.A. Tuhin, "An Application of Decentralized Product Authentication System for Supply Chain Management Using Blockchain Technology". In 26th International Conference on Computer and Information Technology (ICCIT), IEEE, 2023.
- S.T. Tasnim, Md A. Islam, R.J. Taifa, S. Mahbub, and **M.R.A. Rashid**, "Agri-food Traceability Using Blockchain Technology to Ensure Value Chain Management and Fair Pricing in Bangladesh". In 2022 IEEE 8th World Forum on Internet of Things (WF-IoT), pp. 1-6. IEEE, 2022.
- Shanta Saha, Md. Omar Sharif Rajme, Bijan Paul, **Mohammad Rifat Ahmmad Rashid** and Khan Raqib Mahmud, "*Life Saver Robotic Car for Accidental or Disaster Place Emergency Situation*", ICT4SD – 2020 5th International Conference, Indexed by ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink.
- Fatema Zaman Sinthia, Afsana Nasir, Bijan Paul, **Mohammad Rifat Ahmmad Rashid** and Md Nasim Adnan, "*Implementation of OSPFv3 in IPv4 and IPv6 for Established a Wide Area Network*", ICT4SD – 2020 5th International Conference, Indexed by ISI Proceedings, EI-Compendex, DBLP, SCOPUS, Google Scholar and Springerlink.
- Conzon, Davide, **Mohammad Rifat Ahmmad Rashid**, Xu Tao, Angel Soriano, Richard Nicholson, and Enrico Ferrera. "BRAIN-IoT: Model-Based Framework for Dependable Sensing and Actuation in Intelligent Decentralized IoT Systems." In *2019 4th International Conference on Computing, Communications and Security (ICCCS)*, pp. 1-8. IEEE, 2019.
- **Rashid, Mohammad**, Giuseppe Rizzo, Marco Torchiano, Nandana Mihindukulasooriya, and Oscar Corcho. "Knowledge Base Evolution Analysis: A Case Study in the Tourism Domain." In *International Conference on Web Engineering*, pp. 268-278. Springer, Cham, 2018.
- Mihindukulasooriya, Nandana, **Mohammad Rifat Ahmmad Rashid**, Giuseppe Rizzo, Raúl García-Castro, Oscar Corcho, and Marco Torchiano. "RDF shape induction using knowledge base profiling." In *Proceedings of the 33rd Annual ACM Symposium on Applied Computing*, pp. 1952-1959. 2018.
- **Mohammad Rashid**, Giuseppe Rizzo, Nandana Mihindukulasooriya, MarcoTorchiano, and Oscar Corcho, "KBQ - A Tool for Knowledge Base Quality Assessment Using Temporal Analysis", Workshop on Machine Reading Co-located with K-CAP 2017
- **Rashid, Mohammad**, and Marco Torchiano. "A systematic literature review of open data quality in practice." In *Proceedings of 2nd Open Data Research Symposium (ODRS), Madrid, Spain*. 2016.
- **Rashid, Mohammad**, Luca Ardito, and Marco Torchiano. "Energy consumption analysis of algorithms implementations." In *2015 ACM/IEEE International Symposium on Empirical Software Engineering and Measurement (ESEM)*, pp. 1-4. IEEE, 2015.
- **Rashid, M.**, Ardito, L., & Torchiano, M. (2015, May). Energy consumption analysis of image encoding and decoding algorithms. In *2015 IEEE/ACM 4th International Workshop on Green and Sustainable Software* (pp. 15-21). IEEE.
- Moumita Kabir, Fatima Noor Popy Bijan Paul, **Mohammad Rifat Ahmmad Rashid** and Khan Raqib Mahmud, "*Obstacle avoiding and Fire Extinguishing Robot for Everyday Fire Security*", ICT4SD – 2020 5th International Conference, Indexed by ISI Proceedings, EICompendex, DBLP, SCOPUS, Google Scholar and Springerlink.

HONORS & AWARDS

- Won the scholarship of Polytechnic University of Turin for PhD in Computer and Control Engineering
- Won the scholarship of fund for cooperation and knowledge of University of Pavia
- University Merit Scholarship (yearly result based) for pursuing my Bachelor degree