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Areas of interest

Human-computer interaction; Computer Vision and Image Processing; Pattern Recognition; Machine Intelligence, Non-Touch Interfaces; Human Gesture Recognition; User Authentication, ADHD and Parkinson's Disease diagnosis, as well as handwriting analysis, recognition, and synthesis.

Education

- 2020 Ph.D. in Computer Science and Engineering, The University of Aizu, Aizuwakamatsu, Fukushima, Japan.
- 2009 MSc in Computer Science and Engineering with First Class Second Position, GPA conversion: 3.95 (Out of 4.00 Scale) from University of Rajshahi, Rajshahi-6205, Bangladesh.
- 2008 BSc(HONOURS) in Computer Science and Engineering with First Class Second Position, CGPA conversion: 3.82 (Out of 4.00 Scale) from University of Rajshahi, Rajshahi-6205, Bangladesh.
- 2004 HIGHER SECONDARY CERTIFICATE (HSC) in Science with GPA: 4.90 (out of 5.00) from Bhurungamari Degree College, Bhurungamari, Kurigram, Bangladesh.
- 2002 SECONDARY SCHOOL CERTIFICATE (SSC) in Science with GPA: 4.38 (without 4th subject out of 5.00) from Bhurungamari Pilot High School, Bhurungamari, Kurigram, Bangladesh.

Ph.D. Dissertation

Title: Hand Gesture-based Non-touch Interface for Human-Computer Interaction Using Machine Learning Techniques

M.Sc. Thesis

Title: Face recognition using local binary patterns (LBP)

Undergraduate (B.Sc. Honours) Thesis

Title: Visual Recognition of Bengali Sign Language using Artificial Neural Network

Publications

JOURNAL ARTICLES (56)

- 2026 Khan, M. A., Miah, A. S. M., Rahim, M. A., Shin, J., Husen, M. N. (2026). WICA-Net-M: MRI-Based Brain Tumour Classification Using a Lightweight Wavelet-Integrated Coordinate Attention Network with Frequency-Aware Learning. *Computers*, 15(9), 586. <https://doi.org/10.3390/computers15090586>
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- 2026 Khan, M.A., Miah, A., Al Farid, F. et al. Human activity recognition under low-light conditions using frozen CLIP with lightweight adaptation. *Discov Artif Intell* 6, 1006 (2026). <https://doi.org/10.1007/s44163-026-02020-6>
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- 2026 Khatun, Most Mira, Md Abir Hasan, Md Sadiul Alam Chyon, Rashid Anzoom, Md Wadud Ahmed, Md Shaful Azam, SM Hasan Sazzad Iqbal, Md Abdur Rahim, Md Niaz Imtiaz, and Md Toukir Ahmed. "Estimating soil organic carbon by integrating mid-infrared spectroscopy with explainable machine learning." *Results in Chemistry* (2026): 103386.
- 2025 Tusher, Md Mahbubur Rahman, Fahmid Al Farid, Hasan Muhammad Ka, Abu Saleh Musa Miah, Susmita Roy Rinky, Muhiminul Islam, Md Abdur Rahim, Sarina Mansor, and Hezerul Abdul Karim. "Bangladeshi Traffic Sign Recognition Using the Lightweight BanTrafficNet Deep Learning Approach." *Scientific Reports*, 2025.
- 2025 MD. SHAFIUL AZAM, TAHMID RAHMAN, ABU SALEH MUSA MIAH, NAKIB AMAN, & MD ABDUR RAHIM. (2025). A FUSION-BASED CNN-BiLSTM FRAMEWORK FOR ROBUST VIOLENCE DETECTION IN REAL-WORLD VIDEO SURVEILLANCE. In *Tianjin Daxue Xuebao (Ziran Kexue yu Gongcheng Jishu Ban)/ Journal of Tianjin University Science and Technology* (Vol. 58, Number 12, pp. 168–190).

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- 2025 Abu Saleh Musa Miah, Md Mahbubur Rahman Tusher, Md. Moazzem Hossain, Md Mamun Hossain, Md Abdur Rahim, Md Ekramul Hamid, Md. Saiful Islam, Jungpil Shin, "ChatGPT in Research and Education: A SWOT Analysis of Its Academic Impact", CMES-Computer Modeling in Engineering Sciences, Publication Date: 2025-06-11.
DOI:<https://doi.org/10.32604/cmcs.2025.064168>
- 2025 Abu Saleh Musa Miah, Md Mahbubur Rahman Tusher, Md. Moazzem Hossain, Md Mamun Hossain, Md Abdur Rahim, Md Ekramul Hamid, Md. Saiful Islam, Jungpil Shin, "ChatGPT in Research and Education: A SWOT Analysis of Its Academic Impact", CMES-Computer Modeling in Engineering Sciences, Publication Date: 2025-06-11.
DOI:<https://doi.org/10.32604/cmcs.2025.064168>
- 2025 Paul, Subrata Kumer, Abu Saleh Musa Miah, Rakhi Rani Paul, Md Ekramul Hamid, Jungpil Shin, and Md Abdur Rahim. "IoT-Based Real-Time Medical-Related Human Activity Recognition Using Skeletons and Multi-Stage Deep Learning for Healthcare." CMC-Computers, Materials Continuan-, Publication Date: 2025-06-09,
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- 2024 Md ABDUR RAHIM, JUNGPIIL SHIN*, Md. ABUL HASHEM, HEMEL SHARKER AKASH, Md. IMRAN HOSSAIN, Md. NAJMUL HOSSAIN, ABU SALEH MUSA MIAH, "ADVANCED TOUCHLESS HCI: A GESTURE RECOGNITION-BASED MULTILINGUAL VIRTUAL KEYBOARD FOR CHARACTER INPUT," Tianjin Daxue Xuebao (Ziran Kexue yu Gongcheng Jishu Ban)/ Journal of Tianjin University Science and Technology, ISSN (Online):0493-2137, E-Publication: Online Open Access, Vol: 57 Issue: 11:2024,
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- 2024 Akash, Hemel Sharker, Md Abdur Rahim, Abu Saleh Musa Miah, Hyoun-Sup Lee, Si-Woong Jang, and Jungpil Shin. 2024. "Two-Stream Modality-Based Deep Learning Approach for Enhanced Two-Person Human Interaction Recognition in Videos" Sensors 24, no. 21: 7077.
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- 2024 Hossain, Md Imaran, Shoaib Ahmad, Sakib Hasan, Md Abdur Rahim, and Jungpil Shin. "Lung cancer detection and classification using LeNet-LSTM model on computed tomography images." Multidisciplinary Science Journal 7, no. 4 (2025): 2025188-2025188.
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- 2024 Md. Zahin Muntaqim; Tangin Amir Smrity; Abu Saleh Musa Miah; Hasan Muhammad Kafi; Taosin Tamanna; Fahmid Al Farid, Md Abdur Rahim, Hezerul Abdul Karim, Sarina Mansor "Eye Disease Detection Enhancement Using a Multi-Stage Deep Learning Approach," in IEEE Access.
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- 2024 Hossain, M. N., Shimamura, T., Kamal, S. T., Rahim, M. A., Ali, M. S., Ullah, S. E. (2024). Waveform Design and Nonlinear Sensitivity Analysis of WR-OCDFM System for B5G Wireless Communications. Multidisciplinary Science Journal, (Accepted Articles).
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- 2024 Hossain, Md Imran, Shoaib Ahmad, Sakib Hasan, Md Abdur Rahim, and Jungpil Shin. "Lung cancer detection and classification using LeNet-LSTM model on computed tomography images." Multidisciplinary Science Journal Accepted Articles (2024).
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- 2024 Tusher, Md Mahbubur Rahman, Fahmid Al Farid, Md Al-Hasan, Abu Saleh Musa Miah, Susmita Roy Rinky, Mehedi Hasan Jim, Sarina Mansor, Md Abdur Rahim, and Hezerul Abdul Karim. "Development of a Lightweight Model for Handwritten Dataset Recognition: Bangladeshi City Names in Bangla Script." Computers, Materials and Continua 80, no. 2 (2024): 2633-2656.
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- 2024 Tahmid Hasan, **Md Abdur Rahim**, Jungpil Shin, Satoshi Nishimura, Md. Najmul Hossain, "Dynamics of Digital Pen-Tablet: Handwriting Analysis for Person Identification Using Machine and Deep Learning Techniques", *IEEE Access*, 2024. [Accepted: under-processing for publication]
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- 2024 Bijon Mallik, **Md Abdur Rahim**, Abu Saleh Musa Miah, Keun Soo Yun, and Jungpil Shin, "Virtual Keyboard: A Real-Time Hand Gesture Recognition-Based Character Input System Using LSTM and Mediapipe Holistic", *Computer Systems Science and Engineering*, pp. 1-17, DOI: [10.32604/csse.2023.045981](https://doi.org/10.32604/csse.2023.045981) [Accepted: under-processing for publication]
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- Md. Najmul Hossain, Al Amin Islam, **Md Abdur Rahim**, Md. Imran Hossain, and Arifour Rahman, "Design and Performance Analysis of Defected Ground Slotted Patch Antenna for Sub-6 GHz 5G Applications", *Journal of Engineering Advancements*, Vol. 04(04) 2023, pp. 130–140, December 31, 2023.
DOI:<https://doi.org/10.38032/jea.2023.04.004>
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- 2023 M. N. Hossain, H. A. Mamun, M. S. Islam, L. C. P., **Md Abdur Rahim**, M.M. Islam, M. A. Islam, M. A. Rahman, "Challenges and Possible Solutions of Implementing 5G Mobile Networks in Bangladesh", *Mobile Information Systems*, Volume 2023, Article ID 9586126, 14 pages, 5 December 2023.
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- 2023 Md. Najmul Hossain, Al Amin Islam, Jungpil Shin, **Md Abdur Rahim**, Md. Humayun Kabir, "Performance Evaluation of Slotted Star-Shaped Dual-band Patch Antenna for Satellite Communication and 5G Services," *I.J. Wireless and Microwave Technologies*, 2023, 3, 49–63, published online on June 8, 2023, by MECS.
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- 2022 Abu Saleh Musa Miah, Jungpil Shin, Md. Al Mehedi Hasan, **Md Abdur Rahim**, and Yuichi Okuyama, "Rotation, Translation and Scale-Invariant Sign Word Recognition Using Efficient Segmentation and Deep Learning", *Computer Systems Science and Engineering*, Vol.44, No.3, 2023, pp.2521-2536.

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- 2022 Md Nur Alam, Onur Alp İlhan, Md. Sabur Uddin, and **Md Abdur Rahim**, "Regarding on the Results for the Fractional Clannish Random Walker's Parabolic Equation and the Nonlinear Fractional Cahn-Allen Equation", *Advances in Mathematical Physics*, vol. 2022, Article ID 5635514, 12 pages, 2022. AVAILABLE:<https://doi.org/10.1155/2022/5635514>
- 2022 Abu Saleh Musa Miah, Jungpil Shin, Md. Al Mehedi Hasan, and **Md Abdur Rahim**, "BenSignNet: Bengali Sign Language Alphabet Recognition using Concatenated Segmentation and Convolutional Neural Network", *Appl. Sci.* 2022, 12(8), 3933. AVAILABLE:<https://doi.org/10.3390/app12083933>
- 2022 **Md Abdur Rahim**, Jungpil Shin, Keun Soo Yun, "Soft Voting-based Ensemble Model for Bengali Sign Gesture Recognition", *Annals of Emerging Technologies in Computing (AETiC)*, Print ISSN: 2516-0281, Online ISSN: 2516-029X, pp. 41-49, Vol. 6, No. 2, 1st April 2022, Published by International Association for Educators and Researchers (IAER). AVAILABLE:[10.33166/AETiC.2022.02.003](https://doi.org/10.33166/AETiC.2022.02.003)
- 2021 Hijaz Ahmad, Nur Alam, **Md Abdur Rahim**, Maged F Alotaibi, Mohamed Omri, "The unified technique for the nonlinear time-fractional model with the beta-derivative. Results in Physics. 2021 Sep 11:104785. AVAILABLE:<https://doi.org/10.1016/j.rinp.2021.104785>
- 2020 Abu Saleh Musa Miah, **Md Abdur Rahim**, and Jungpil Shin, "Motor-Imagery Classification Using Riemannian Geometry with Median Absolute Deviation." *Electronics (MDPI)*, Vol. 9, Issue. 10, p.1584, September, 2020. ISSN 2079-9292; CODEN: ELECGJ. **SCIE Indexed** AVAILABLE:<https://doi.org/10.3390/electronics9101584>
- 2020 **Md Abdur Rahim**, Jungpil Shin and Keun Soo Yun, "Hand Gesture-based Sign Alphabet Recognition and Sentence Interpretation using a Convolutional Neural Network", *Annals of Emerging Technologies in Computing (AETiC)*, Print ISSN: 2516-0281, Online ISSN: 2516-029X, pp. 19-26, Vol. 4, No. 4, 1st October 2020, Published by International Association of Educators and Researchers (IAER), DOI: 10.33166/AETiC.2020.04.003. **Scopus Indexed** AVAILABLE:<http://aetic.theiaer.org/archive/v4/v4n4/p3.html>

- 2020 **Md Abdur Rahim**, Jungpil Shin, "Hand Movement Activity-Based Character Input System on a Virtual Keyboard," *Electronics*, 2020, 9(5), 774. **SCIE Indexed**.
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- 2025 Shahriar Shddique Arjon, Tamanna Yasmin, Ankur Kumar Mondol, Pabitra Kumar Biswas, Shabbir Mahmood, **Md. Abdur Rahim**, "Deep Learning-based Classification of Real and Fake Face Images Using Convolutional Neural Networks," *Undergraduate Conference on Intelligent Computing and Systems (UCICS 2025)*, 26-27 February 2025; Varendra University, Rajshahi, Bangladesh.
- 2025 Md Anwarul Islam Himel, Md. Bayazid Hossain, **Md. Abdur Rahim**, Shabbir Mahmood, Abu Saleh Musa Miah, Md. Imran Hossain, "Hybrid Model-based Bangla Sign Language Recognition Using Machine Learning and Deep Transfer Learning Techniques," *Undergraduate Conference on Intelligent Computing and Systems (UCICS 2025)*, 26-27 February 2025; Varendra University, Rajshahi, Bangladesh.
- 2025 Md. Bayazid Hossain, Md. Anwarul Islam Himel, **Md. Abdur Rahim**, Shabbir Mahmood, Abu Saleh Musa Miah, Jungpil Shin, "Classification of ADHD and Healthy Children Using Multi-Band and Spatial Features of Electroencephalography", *Undergraduate Conference on Intelligent Computing and Systems (UCICS 2025)*, 26-27 February, 2025; Varendra University, Rajshahi, Bangladesh.
- 2024 Md. Shariful Islam, **Md Abdur Rahim**, Nitun Kumar Podder, Md. Najmul Hossain, Md Imran Hossain, "Prediction of Irregular Bangladesh-EU Migration Trends Using Machine Learning Techniques", *International Conference on Advancement in Electrical and Electronic Engineering 2024 (ICAEEE 2024)* *Corresponding author (Md. Abdur Rahim)
- 2023 Hemel Sharker Akash, **Md Abdur Rahim**, Abu Saleh Musa Miah, Yuichi Okuyama, Yoichi Tomioka and Jungpil Shin, "Generalized Technique for Potato Leaves Disease Classification using Convolutional Neural Network", in *8th International Conference on ICT for Sustainable Development*, August 3rd -4th, 2023, Goa, India.
- 2023 M. S. Rana, N. K. Podder, H. K. Rana, M. I. Hasan, M. S. Azam, **M. A. Rahim**, SM H. S. Iqbal, S. Saha, "Identification of Genomic Associations Between Parkinson's and Neurodegenerative Diseases Using Bioinformatics Models", In *International Conference on Electrical, Computer and Communication Engineering (EECE)*, Feb. 23-25, 2023, Chittagong, Bangladesh.

- 2022 N. K. Podder, A. K. Puza, H. K. Rana, B. C. Podder, M. H. Sumon, N. J. Rinvi, **M. A. Rahim** and P. C. Shill, "Identification of Influential Genes and Comorbidities of Colorectal Cancer," 2022 International Conference on Recent Progresses in Science, Engineering and Technology (ICRPSET) 2022.
- 2020 Jungpil Shin, **Md Abdur Rahim**, Okuyama Yuichi, Yoichi Tomioka, "Deep Learning-based Hand Pose Estimation from 2D Image," *In 2020 3rd IEEE International Conference on Knowledge Innovation and Invention (ICKII)* 2020 Aug 21 (pp. 108-110). IEEE.
DOI: [10.1109/ICKII50300.2020.9318917](https://doi.org/10.1109/ICKII50300.2020.9318917)
- 2020 **Md Abdur Rahim**, Miah AS, Sayeed A, Shin J. Hand Gesture Recognition Based on Optimal Segmentation in Human-Computer Interaction. In 2020 3rd IEEE International Conference on Knowledge Innovation and Invention (ICKII) 2020 Aug 21 (pp. 163-166). IEEE.
DOI: [10.1109/ICKII50300.2020.9318870](https://doi.org/10.1109/ICKII50300.2020.9318870)
- 2020 Jungpil Shin, **Md Abdur Rahim**, "Handedness Detection Based on Drawing Patterns using Machine Learning Techniques," *The Thirteenth International Conference on Advances in Computer-Human Interactions (ACHI2020)*, pp. 68-71, March, 2020.
- 2020 **Md Abdur Rahim**, Md Rashedul Islam, Ui-Pil Chong, Jungpil Shin, "Hand movement activity-based approach for virtual keyboard input," *3rd Eurasian Conference on Educational Innovation 2020 (ECEI2020)*, February 5-7, 2020, Hanoi, Vietnam. [Best Conference Paper Award]
- 2019 **Md Abdur Rahim**, Jungpil Shin, Md Rashedul Islam, "Dynamic Hand Gesture based Sign Word Recognition using Convolutional Neural Network with Feature Fusion," *In 2019 IEEE 2nd International Conference on Knowledge Innovation and Invention (ICKII)*, pp. 221-224, July, 2019. [Best Conference Paper Award]
DOI: <https://doi.org/10.1109/ICKII46306.2019.9042600>
- 2019 Md Rashedul Islam, **Md Abdur Rahim**, Md Rajibul Islam, and Jungpil Shin. "Genetic Algorithm Based Optimal Feature Selection Extracted by Time-Frequency Analysis for Enhanced Sleep Disorder Diagnosis Using EEG Signal," *In Proceedings of SAI Intelligent Systems Conference*, pp. 881-894. Springer, Cham, 2019.
DOI: https://doi.org/10.1007/978-3-030-29513-4_65
- 2019 Shunsuke Kobayashi, Ryoma Takahashi, Mitsuki Aihara, **Md Abdur Rahim**, Md Rashedul Islam, Jungpil Shin, Kazuaki Kanai, Yoshikazu Ugawa, "Pathophysiology of Micrographia in Parkinson's Disease," *60th Annual Meeting of the Japanese Society of Neurology*, Pe-051-1, May 22-25, 2019, Osaka, Japan.

- 2019 **Md Abdur Rahim**, Hyung-Jin Mun, Jungpil Shin, "Content-Based Image Retrieval (CBIR) Using Gabor Wavelet, Color Moments and Shape Features," *International Research Conference on Innovation, Technology and Sustainability*, pp. 701-702, January 24-25, 2019, Century Park Hotel, Manila, Philippines.
- 2018 **Md Abdur Rahim**, Jungpil Shin, and Md Rashedul Islam, "Human-Machine Interaction based on Hand Gesture Recognition using Skeleton Information of Kinect Sensor," *In Proceeding of the 3rd International Conference on Applications in Information Technology*, pp. 75-79, ACM, Nov. 2018.
DOI: <https://doi.org/10.1145/3274856.3274872>
- 2018 Md Rashedul Islam, **Md Abdur Rahim**, Hafeza Akter, Raihan Kabir, and Jungpil Shin, "Optimal IMF Selection of EMD for Sleep Disorder Diagnosis using EEG Signals," *In Proceeding of the 3rd International Conference on Applications in Information Technology*, pp. 96-101, ACM, Nov. 2018. **[Best Paper Award]**
DOI: <https://doi.org/10.1145/3274856.3274876>
- 2018 Jungpil Shin, **Md Abdur Rahim**, Keun Soo Yun, "Continuous Motion Detection using Histogram of Oriented Gradients," *The 5th International Conference on Small & Medium Business (ICSMB)*, W15-199, Jan. 17-19, 2018, Manila, Philippines.
- 2018 **Md Abdur Rahim**, Jungpil Shin, Keun Soo Yun, "Integrated Recognition of Handwritten and Printed Character using Machine Learning Algorithm," *The 5th International Conference on Small & Medium Business (ICSMB)*, W15-200, Jan. 17-19, 2018, Manila, Philippines.

BOOK CHAPTER (01)

- 2023 MD FARHANUL HAQUE, Abu Saleh Musa Miah, Md. Al-Hasan, Sumaiya Tabssum Mou, **Md Abdur Rahim**, Jungpil Shin, "Multichannel Attention Networks with Ensembled Transfer Learning to Recognize Bangla Handwritten Charecter", *International Conference on Big Data, IoT and Machine Learning*, 6-8 September, 2023, Bangladesh.

Research Grant: Ongoing

- FY 2025-2026 Dataset Creation and Forensic Handwriting Analysis for Age, Gender, and Individual Classification Using Machine and Deep Learning Techniques.
- FY 2025-2026 Typing with Eyes: Bengali Word Prediction Using Deep Learning Techniques

[Proposal Submitted]

Research Grant: Completed

- FY 2024-2025 An innovative approach to gaze-based communication: Bengali word prediction from eye movement data using LSTM networks.
- FY 2022-2023 Sensor-based non-touch Bangla character input system using Machine and deep learning techniques, under the research project of the University Grants Commission of Bangladesh.
- FY 2023-2024 Person Identification from Natural Handwriting Using Machine and Deep Learning Techniques, Special Research Grant from Pabna University of Science and Technology.
- FY 2022-2023 Deep Learning-based Hand Gestures Recognition for Non-touch Interface in Industrial Environments, Received Research Grant from Ministry of Science and Technology, People's Republic of Bangladesh, Project ID: SRG-222429.
- FY 2022-2023 Predicting Parkinson's disease based on handwriting features using machine-learning techniques, Received Research Grant from Pabna University of Science and Technology, Bangladesh.
- FY 2021-2022 Deep Ensemble Approach-based Bengali Sign Gesture Recognition, Received Research Grant from Pabna University of Science and Technology, Bangladesh.
- FY 2016-2017 Segmentation Techniques for Iris Recognition System, Received Research Grant from Pabna University of Science and Technology, Bangladesh.

Projects Completed

- 2024-2025 Enhancing Digital Government and Economy (EDGE), 1924 Trainees Certified (Male 1059, Female 865), supported by ICT Division, Bangladesh.

Awards & honours

- 2023 Innovative Project Award (Smart Classroom based on IoT), Pabna University of Science and Technology, Bangladesh.
- 2020 Best Conference Paper Award, 3rd Eurasian Conference on Educational Innovation 2020 (ECEI 2020), Ha Long Bay/Hanoi, Vietnam, February 5-7, 2020.
- 2019 Best Conference Paper Award, 2nd IEEE International Conference on Knowledge Innovation and Invention (ICKII), July 13-16, 2019, Seoul, South Korea,
- 2018 Best Paper Award, In Proceeding of the 3rd International Conference on Applications in Information Technology (ICAIT'2018), 2018.

2014-2015	Received research fund, supported by University Grants Commission (UGC) of Bangladesh under the projects of Research and Development (RD).
2013-2014	Research Fellowship at Ministry of Science and Technology, Bangladesh.
2009	Second Position in M.Sc. (Thesis) Examination Results
2008	Second Position in B.Sc. (Honours) Examination Results
2004-2008	Undergraduate scholarship at University of Rajshahi throughout the four years for excellent undergraduate level based on merit.
1997-1999	Merit Scholarship of Bangladesh Junior Level Scholarship Examination.

Work Experience

Dec.2020- Present	Associate Professor, Department of Computer Science and Engineering, Pabna University of Science and Technology, Pabna-6600, Bangladesh.
Nov.2014- Dec. 2020	Assistant Professor, Department of Computer Science and Engineering, Pabna University of Science and Technology, Pabna-6600, Bangladesh.
Nov.2012- Nov.2014	Lecturer, Department of Computer Science and Engineering, Pabna University of Science and Technology, Pabna-6600, Bangladesh.
Dec.2011- Nov.2012	Lecturer, Department of Computer Science and Engineering, Uttara University, Uttara, Dhaka, Bangladesh.
Feb.2011- Dec.2011	Assistant Programmer, Bangladesh Computer Council, Bangladesh.

Others Experience

Jan. 2025-Present	Member, D-Nothi Execution Committee, Pabna University of Science and Technology, Rajapur-6600, Pabna.
2025-Present	Technical Focal Point, GST Admission Test 2024-2025, Pabna University of Science and Technology, Rajapur-6600, Pabna.
Jul. 2024- Present	General Secretary, Teacher's Association, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
Jan 24-Present	Training Coordinator, Enhancing Digital Government and Economy (EDGE) project, Bangladesh Computer Council (BCC) under Information and Communication Technology Division Ministry of Posts, Telecommunications, and Information Technology, Government of the People's Republic of Bangladesh. Director, ICT Cell, Pabna University of Science and Technology, Rajapur-6600, Pabna.
Nov.2022- Present	Chairman, Department of Computer Science and Engineering, Pabna University of Science and Technology, Rajapur-6600, Pabna.
Nov.2023- Present	Technical Focal Point, GST Admission Test 2023-2024, Pabna University of Science and Technology, Rajapur-6600, Pabna.
2023-2024	Convener, Technical Sub-Committee under Purchase of Scientific Equipment for the Development Project of Pabna University of Science and Technology, PUST, Rajapur-6600, Pabna.
Jan.2024- Present	

2021-24	III. Keynote Speaker as ICT Expert on Role in building Smart Bangladesh, District Information Office in 2021, 2022, 2023, and 2024, respectively.
2023	Keynote Speaker as ICT Expert on Role in Building Smart Bangladesh, Begum Rokeya University, Rangpur in 2023.
2022-23	Keynote Speaker as ICT Expert on Smart Bangladesh: Smart Education Smart Country, Deputy Commissioner's Office (Pabna DC Office) in 2022 and 2023, respectively.
Nov.2022-Present	Convener, E-governance & Innovation Committee for Annual Performance Agreement (APA), Pabna University of Science and Technology, PUST, Rajapur-6600, Pabna.
Nov.2020-Oct,2023	Chairman, Department of Computer Science and Engineering, Pabna University of Science and Technology, Rajapur-6600, Pabna.
2022-2023	Technical Focal Point, GST Admission Test 2022-2023, Pabna University of Science and Technology, Rajapur-6600, Pabna.
2021-2022	Technical Focal Point, GST Admission Test 2021-2022, Pabna University of Science and Technology, Rajapur-6600, Pabna.
Jan.2021-Dec.2023	Member, Technical Sub-Committee under Purchase of Scientific Equipment for the Development Project of Pabna University of Science and Technology, PUST, Rajapur-6600, Pabna.
Jan.2021-May,2023	Member, Committee of the supply and specification and market price verification of computers and accessories given the needs of various departments and departments of Pabna University of Science and Technology, PUST, Rajapur-6600, Pabna.
Nov.2020-Aug.2023	Member, Diary and Calendar Printing Committee, Pabna University of Science and Technology, Rajapur-6600, Pabna.
2014-2017	Assistant Proctor, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
2016-2017	Member, Campus Network Sub-Project of BdREN, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
2015-2016	Coordinator, MCSE Evening Program, Department of Computer Science and Engineering, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
2016-2017	Secretary, Teacher-Officer Club, Pabna University of Science & Technology, Pabna-6600, Bangladesh
2016-2017	Executive Member, Teacher Association, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
2015-2016	Member, Policy formulation committee for the study leave, Lien leave, and other leave, Pabna University of Science and Technology. 2015-2016.
2015-2016	Joint Secretary, Teacher Association, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
2014-2015	Joint Secretary, Teacher's Association, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
2013-2014	Executive Member, Teacher's Association, Pabna University of Science & Technology, Pabna-6600, Bangladesh.
2006-2011	Executive Member, Kurigram Zilla Somite, University of Rajshahi, Rajshahi, Bangladesh.

Thesis & Project Supervisions

Thesis Title:

- Kinematic–Visual Fusion for Bilingual Online Handwriting Analysis: Closed-Set Writer Identification and Participant-Level Gender and Age-Group Classification
- Dynamics of Digital Pen-Tablet Handwriting Analysis for Person Identification System
- Human Activity Recognition through Key Point Analysis and Segmented Mesh Fusion: A Comparative Study of KM-Model and SRGB-Model
- Person Detection based on pen-tablet handwriting (independent)
- ADHD Detection using Deep learning techniques
- Dynamic Hand Gesture Detection for Robotic Instructions
- Machine Learning-based Classification of Parkinson’s Disease using Digitized Graphics Tablet
- DIABETES TYPE-2 PREDICTION USING ENSEMBLE MACHINE LEARNING APPROACH
- Evaluation of handwriting features for differential diagnosis of Parkinson’s disease
- Virtual Keyboard-Based Bangla Character Input System Using Leap Motion
- MAMMOGRAPHY IMAGE ANALYSIS-BASED BREAST CANCER DETECTION USING CONVOLUTIONAL NEURAL NETWORK
- Multiple Face Detection & Recognition in Real Time Using Local Binary Patterns (LBP)
- Handwritten and Printed Character Recognition System Using Neural Network
- Segmentation Techniques for Iris Recognition System
- Content-Based Image Retrieval (CBIR) Using Gabor Wavelet, Color Moment & Shape
- Signal De-noising Based On Empirical Mode Decomposition and a Comparison between EMD and Wavelet Processing
- Automatic Gait Recognition for Human ID at a Distance

- Reducing Peak to Average Power Ratio of OFDM by Using Selected Mapping
- Custom object detection and recognition system

Projects:

- AI Farming: Use of 4IR Technology for Smart Agriculture in Bangladesh– On-going
- Guest House Seat Reservation System using Mobile Apps– Ongoing
- CSE Department website design (Dynamic)— Ongoing
- Examination Control and Academic Module (ongoing)
- Designing a person detection and attendance system for a smart classroom with Internet of Things (IoT) technology (Received Innovative Project Award)– on-going
- Online Library Management System
- Human Resource Management System
- Online Ticket Reservation System
- Cloud computing security and password management
- Tennis Sports Management System
- Payroll Management System
- Vehicular Cloud Computing

Reviewer of international journal and conference

- 1 IEEE Access
- 2 Multimedia Tools and Applications, Springer
- 3 International Journal of Computer Applications in Technology, Springer
- 4 International Conference on Small Medium Business (ICSMB)
- 5 MDPI Applied Sciences
- 6 IEEE Transactions on Artificial Intelligence
- 6 so on.

Conducted courses

- Artificial Intelligence
- Pattern Recognition
- Digital Image Processing
- Compiler Design
- Digital Systems
- Internet and E-Commerce
- Automata Theory and Compiler Design
- Database Management System
- Computer Fundamentals
- Programming with C and C++
- Cryptography and Network Security
- Design Pattern and Java Programming
- Microprocessor
- Computer Peripherals and Interfacing
- Numerical Methods

Programming skills

- **Programming Language:** Python, MATLAB, Microsoft C.NET, Visual Basic-6, Assembly Language(8085, 8086), C, C++, Java, Visual C++, Prolog.
- **Database:** MS SQL Server, MS Access, MySQL, Oracle
- **Networking:** DNS Server, FTP Server, Web server, Mail Server and Telnet configuration in Windows 2000/2003 server and Linux/Unix.
- **Scripting Language/Web Technology:** HTML, PHP, ASP.Net, Macromedia Dream Weaver, Adobe Photoshop, Adobe Illustrator
- **Operating System:** MS DOS, All Window, Linux.

English proficiency

- 1 Medium of Instruction was English in the Undergraduate Program at Dept. of CSE, University of Rajshahi, Bangladesh.
- 2 Medium of Instruction was English in Graduate Program (M.Sc.) at Dept. of CSE, University of Rajshahi, Bangladesh.
- 3 Medium of Instruction in English in my teaching profession at the Pabna University of Science & Technology. We are strongly instructed to conduct courses, supervision and discussion in English.
- 4 Medium of Instruction is English in PhD at the School of Computer Science and Engineering, The University of Aizu, Aizuwakamatsu, Fukushima, Japan.

Personal information

FATHER'S NAME: Md Fazlar Rahman
MOTHER'S NAME: Mst Omeda Begum
PLACE AND DATE OF BIRTH: Bhurungamari, Kurigram, 11 October 1987
NATIONALITY: Bangladeshi (By Birth)
SEX: Male
RELIGION: Islam
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Referees

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& VICE-CHANCELLOR, VARENDRA UNIVERSITY, RAJSHAHI, BANGLADESH
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2 PROFESSOR DR. SHEIKH RASHEL AL AHMED
DEAN, FACULTY OF ENGINEERING AND TECHNOLOGY
PABNA UNIVERSITY OF SCIENCE AND TECHNOLOGY, RAJAPUR, PABNA, BANGLADESH
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