Samsuddin Ahmed

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Education

Chosun University **March. 2018 – February 2020**
Master of Engineering in Computer Engineering. CGPA: 4.44 out of 4.50 *Gwangju, South Korea*

- Thesis: Deep Learning Methods for Exploring Alzheimer Diseases in Structured Magnetic Resonance Imaging
- Relevant Coursework: Machine Vision, Artificial Intelligence, Video Codec, Pattern Recognition and Media Understanding, Image Processing, Theoretical Computer Science, Multimedia Data Processing, Information Telecommunication Seminar, Information Security
- Course Projects: Group-level emotion recognition, Emotion Recognition from Video, Face Recognition, Medical Image Processing

University of Chittagong **April. 2014 – June 2010**
Bachelor of Science in Computer Science and Engineering. CGPA: 3.88 out of 4.00 *Chittagong, Bangladesh*

- Thesis: Handling Uncertainty under Spatial Feature Extraction
- Relevant Coursework: Engineering Mathematics, Statistics, Data Structure, Algorithm, Programming, Compiler Design, Database systems, Networking, Artificial Intelligence, Simulation and Modeling, etc
- Course Projects: Student Information Management,Result Processing

Research and Teaching Experience

Bangabandhu sheikh Mujibur Rahman Digital University, Bangladesh(BDU)October 2021 – Continuing
Assistant Professor of ICT *Gazipur, Bangladesh*

- Teaching Sensor Technology, Web Application Engineering.
- Assistant House Tutor, Male Hall

Chosun University **March 2018 – August 2020**
Graduate Research Assistant *Gwangju, South Korea*

- Accomplished research projects on Alzheimer disease diagnosis.
- Investigated cerebral MR images for automatic Alzheimer diseases diagnosis
- Authored four journal articles [1, 2, 3, 4].
- Communicated the research findings in conferences (three) [5, 6, 7] and workshops (two) [8, 9].
- Reviewed Journal and Conference papers

Bangladesh University of Business and Technology(BUBT) **October 2013 – October 2021**
Assistant Professor of CSE *Dhaka, Bangladesh*

- Participated in writing three journals [10, 11, 12], two conference articles [13, 14]
- Taught Capstone Project, Data Mining, Machine Learning, Artificial Intelligence, Artificial Neural Network, Algorithm, Data Structure, Object Oriented Programming, Structured Programming, etc., courses to undergraduate students.
- Supervised undergraduate students in accomplishing thesis/projects

Bangladesh University of Business and Technology(BUBT) **October 2011 – October 2013**
Lecturer in CSE *Dhaka, Bangladesh*

- Participated in writing two journals [15, 16], one conference article [14]
- Taught Capstone Project, Data Mining, Machine Learning, Artificial Intelligence, Artificial Neural Network, Algorithm, Data Structure, Object Oriented Programming, Structured Programming, etc., courses to undergraduate students.
- Supervised undergraduate students in accomplishing thesis/projects

State University of Bangladesh (SUB) **September 2010 – October 2011**
Lecturer in CSE *Dhaka, Bangladesh*

- Participated in writing one journal article [17].
- Taught Algorithm, Object Oriented Programming, Data Structure, Structured Programming, Interfacing and Peripherals etc., courses to undergraduate students.

Technical Skills

Languages: Python, MatLab, Java, C, HTML/CSS, JavaScript, SQL
Developer Tools: VS Code, Eclipse, Google Cloud Platform, Android Studio
Technologies/Frameworks: Anaconda, PyCharm, etc

Leadership / Extracurricular

Department of CSE **May 2015 – June 2017**
Chairman *BUBT, Dhaka, Bangladesh*

- Education Management.
- Research Enhancement

References

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[2] S. Ahmed and H. Y. Jung, "Siamese network for learning robust feature of hippocampi," *Smart Media Journal*, vol. 9, pp. 9–17, 09 2020.

[3] A. Basher, S. Ahmed, and H. Y. Yub, "One step measurements of hippocampal pure volumes from mri data using an ensemble model of 3-d convolutional neural network," *Smart Media Journal*, vol. 9, pp. 22–32, 05 2020.

[4] S. Ahmed, K. Y. Choi, J. Lee, B. Kim, K. Goo-Rak, K. H. Lee, and H. Y. Jung, "Ensembles of patch-based classifiers for diagnosis of alzheimer diseases," *IEEE Access*, vol. 7, pp. 73373–73383, 05 2019.

[5] A. Basher, S. Ahmed, and H. Y. Jung, "Ensembles of 3-d cnn models for pure volume measurement of hippocampi in smri," in *Proceedings of The SMA 2019,International Conference on Smart Media and Applications, Guam, USA, December 05-07,2019*, Korean Institute of Smart Media, 12 2019.

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[9] S. Ahmed, , and H. Y. Jung, "Preprocessing of mri data for alzheimer diseases diagnosis," in *Proceedings of The 8th Workshop on Convergent and Smart Media Systems, Gwangju City , South Korea, June 18-19,2018*, Korean Institute of Smart Media, 07 2018.

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[12] M. Rahman, S. Ahmed, and M. Shuvo, "Nearest neighbor classifier method for making loan decision in commercial bank," *International Journal of Intelligent Systems and Applications(IJISA)*, vol. 08, pp. 60–68, 07 2014.

[13] S. Shubho, M. Razib, N. Rudro, A. Saha, M. Khan, and S. Ahmed, "Performance analysis of nb tree, rep tree and random tree classifiers for credit card fraud data," pp. 1–6, 12 2019.

[14] M. T. Nayeem, M. Mukta, S. Ahmed, and M. Rahman, "Use of human cognition in hip design via emoticons to defend bot attacks," pp. 178–185, 12 2012.

[15] S. Ahmed and M. Rahman, "Handling uncertainty under spatial feature extraction through probabilistic shape model (psm)," *International Journal of Science and Research (IJSR)*, pp. 2319–7064, 09 2013.

[16] M. Rahman, S. Ahmed, M. Islam, and M. Rahman, "An effective ranking method of webpage through tfidf and hyperlink classified pagerank," *International Journal of Data Mining and Knowledge Management Process (IJDKP)*, vol. 3, pp. 149–156, 07 2013.

[17] U. Kamal, N. M. Nessa, and S. Ahmed, "Classifying the practitioner's behavior in medical informatics by using data mining," pp. 54–59, 07 2012.