

Abdus Salam Azad

EMPLOYMENT & CONTACT INFORMATION	Lecturer Department of Computer Science and Engineering Bangladesh University of Engineering and Technology Email: azadsalam2611@gmail.com , azadsalam@cse.buet.ac.bd Homepage: https://sites.google.com/view/azadsalam2611/home	August 2014 - Present
RESEARCH INTERESTS	Machine Learning, Deep Learning, Memetic Algorithms	
EDUCATION	<p>October, 2014 - January, 2017: M. Sc. in Computer Science and Engineering Department of Computer Science and Engineering (CSE) Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. CGPA: 4.00/4.00</p> <p>March, 2009 - June, 2014: B. Sc. in Computer Science and Engineering Department of Computer Science and Engineering (CSE) Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. CGPA: 3.95/4.00 (Major CGPA: 3.996) Ranked 3rd in a class of 153 students</p>	
PUBLICATIONS	<p>Abdus Salam Azad, Md. Monirul Islam, and Saikat Chakroborty. A Heuristic Initialized Stochastic Memetic Algorithm for MDPVRP with Interdependent Depot Operations. IEEE Transactions on Cybernetics, January, 2017. [Impact Factor: 7.384]</p> <p>Abdus Salam Azad, Md.Kamrul Hasan, M.Arif Imtiazur Rahman, Md.Mustafizur Rahman, and Nashid Shahriar. Exploring the behavior and changing trends of rainfall and temperature using statistical computing techniques. In Tanvir Islam, Prashant K. Srivastava, Manika Gupta, Xuan Zhu, and Saumitra Mukherjee, editors, Computational Intelligence Techniques in Earth and Environmental Sciences, pages 53-78. Springer Netherlands, 2014.</p>	
RESEARCH EXPERIENCE	<p>Master's Thesis with Prof. Md. Monirul Islam on A Heuristic Initialized Stochastic Memetic Algorithm for MDPVRP with Interdependent Depot Operations</p> <p>Undergraduate Thesis with Prof. Md. Monirul Islam on Diversity Guided Unified Evolutionary Framework for Multi Depot Periodic Vehicle Routing Problem Winner, 1st Undergraduate Thesis Poster Presentation, 2014, CSE, BUET.</p>	
CURRENT PROJECTS	<p>Multi objective learning to rank for citation recommendation A multi objective learning to rank algorithm for recommending the most relevant works from the literature given an abstract or, research idea as a query. Co-supervisor: Shubhra Kanti Karmaker Santu Supervisor: Prof. Mohammed Eunus Ali</p> <p>Machine Comprehension A graph-traversal based approach for machine comprehension, i.e., answering questions based on a given piece of text.</p>	

SELECTED UNDERGRAD & MASTER'S PROJECTS	<p>Finding and Describing Images with Sentences In this study, we analyzed some of the state-of-the-art methods on searching images with sentence description and vice versa.</p> <p>Content Based Image Retrieval Implementation of a paper on content-based image retrieval with local-tetra patterns.</p> <p>Machine Learning & Pattern Recognition Projects Bangla Character Recognition using CNN, Implementation of Decision Tree (ID3), K-Nearest Neighbor, and Naive Bayesian Classifiers, Artificial Neural Networks, Semi-supervised Learning, Ensemble Learning, and K-means & Bisecting K-means Clustering. Please visit my homepage for a complete list.</p>
SELECTED COURSE-WORK	Artificial Intelligence, Machine Learning, Pattern Recognition, Advanced Digital Image Processing, Data Mining, High Dimensional Data Management
MOOCs PARTICIAPATED	Machine Learning (Coursera) and Deep Learning (Udacity)
LAB COURSES INSTRUCTED	<p>Artificial Intelligence (January-2016 and January-2015 Semester, 120 Students) Machine Learning (January-2015 and July-2015 Semester, 60 Students), Microprocessor and Microcontrollers (July-2017, January-2017, Jan-2016, and July-2015 Semesters, 120 Students), Software Development (July-2017 Semester, 120 Students), etc.</p> <p>Currently, I am also instructing an applied machine learning course for a group of 20 graduates from five different institutions of Bangladesh.</p>
SCHOLARSHIPS, AWARDS, AND GRANTS	<p>Winner, 1st Undergraduate Thesis Poster Presentation, 2014, CSE, BUET.</p> <p>Travel Grant, NUS School of Computing Summer School, 2017, National University of Singapore</p> <p>Winner, Android Application Development Contest, Samsung R&D, Bangladesh, 2013</p> <p>Dean's Honor List, BUET</p> <p>University Merit Scholarship, BUET</p>
LANGUAGE, LIBRARIES & PLATFORMS	<p>Language: C, C++, Java, Python</p> <p>Machine Learning Libraries: Scikit-learn, WEKA, Keras, Tensor Flow</p> <p>Other: R, MatLab, Prolog</p> <p>Development & Database: Android, Oracle, MySQL, CodeIgniter</p> <p>Hardware: ATmega32 - Atmel Corporation, Arduino</p>
COMMUNITY SERVICES	<p>Reviewer IEEE Transactions on Cybernetics</p> <p>Founding Member</p> <p>Information and Communication Secretary September 2011 – November 2013</p> <p>Engineering Students Association of Bangladesh (ESAB)</p> <p>Organizing Committee Member WALCOM 2015, NSysS 2015, 2016, 2017</p>