

## Abdus Salam Azad

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EMPLOYMENT & CONTACT INFORMATION	Lecturer Department of Computer Science and Engineering Bangladesh University of Engineering and Technology Email: <a href="mailto:azadsalam2611@gmail.com">azadsalam2611@gmail.com</a> , <a href="mailto:azadsalam@cse.buet.ac.bd">azadsalam@cse.buet.ac.bd</a> Homepage: <a href="https://sites.google.com/view/azadsalam2611/home">https://sites.google.com/view/azadsalam2611/home</a>	August 2014 - Present
RESEARCH INTERESTS	Machine Learning, Deep Learning, Natural Language Understanding, Image Understanding, Information Retrieval, Memetic Algorithms, Combinatorial Optimization	
EDUCATION	<p><b>October, 2014 - January, 2017: M. Sc. in Computer Science and Engineering</b> Department of Computer Science and Engineering (CSE) Bangladesh University of Engineering and Technology (BUET), Dhaka, Bangladesh. CGPA: 4.00/4.00</p> <p><b>March, 2009 - June, 2014: B. Sc. in Computer Science and Engineering</b> 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 3<sup>rd</sup> in a class of 153 students</p>	
PUBLICATIONS	<p><b>Abdus Salam Azad</b>, Md. Monirul Islam, and Saikat Chakroborty. <b>A Heuristic Initialized Stochastic Memetic Algorithm for MDPVRP with Interdependent Depot Operations.</b> <a href="#">IEEE Transactions on Cybernetics</a>, January, 2017. [Impact Factor: 7.384]</p> <p><b>Abdus Salam Azad</b>, Md.Kamrul Hasan, M.Arif Imtiazur Rahman, Md.Mustafizur Rahman, and Nashid Shahriar. <b>Exploring the behavior and changing trends of rainfall and temperature using statistical computing techniques.</b> In Tanvir Islam, Prashant K. Srivastava, Manika Gupta, Xuan Zhu, and Saumitra Mukherjee, editors, <a href="#">Computational Intelligence Techniques in Earth and Environmental Sciences</a>, pages 53-78. Springer Netherlands, 2014.</p>	
RESEARCH EXPERIENCE	<p>Master's Thesis with <a href="#">Prof. Md. Monirul Islam</a> on <b>A Heuristic Initialized Stochastic Memetic Algorithm for MDPVRP with Interdependent Depot Operations</b></p> <p>Undergraduate Thesis with <a href="#">Prof. Md. Monirul Islam</a> on <b>Diversity Guided Unified Evolutionary Framework for Multi Depot Periodic Vehicle Routing Problem</b> Winner, <a href="#">1st Undergraduate Thesis Poster Presentation</a>, 2014, CSE, BUET.</p>	
CURRENT PROJECTS	<p><b>Multi objective learning to rank for citation recommendation</b> 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: <a href="#">Shubhra Kanti Karmaker Santu</a> Supervisor: <a href="#">Prof. Mohammed Eunus Ali</a></p> <p><b>Machine Comprehension</b> 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	<b>Finding and Describing Images with Sentences</b> In this study, we analyzed some of the state-of-the-art methods on searching images with sentence description and vice versa.
	<b>Content Based Image Retrieval</b> Implementation of a paper on content-based image retrieval with <a href="#">local-tetra patterns</a> .
	<b>Machine Learning &amp; Pattern Recognition Projects</b> 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 <a href="#">homepage</a> for a complete list.
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	<b>Artificial Intelligence</b> (January-2016 and January-2015 Semester, 120 Students) <b>Machine Learning</b> (January-2015 and July-2015 Semester, 60 Students), <b>Microprocessor and Microcontrollers</b> (July-2017, January-2017, Jan-2016, and July-2015 Semesters, 120 Students), <b>Software Development</b> (July-2017 Semester, 120 Students), etc.  Currently, I am also instructing an <b>applied machine learning course</b> for a group of 20 graduates from five different institutions of Bangladesh.
SCHOLARSHIPS, AWARDS, AND GRANTS	Winner, <a href="#">1st Undergraduate Thesis Poster Presentation</a> , 2014, CSE, BUET.  Travel Grant, NUS School of Computing Summer School, 2017, National University of Singapore  Winner, Android Application Development Contest, Samsung R&D, Bangladesh, 2013  Dean's Honor List, BUET  University Merit Scholarship, BUET
LANGUAGE, LIBRARIES & PLATFORMS	Language: C, C++, Java, Python Machine Learning Libraries: Scikit-learn, WEKA, Keras, Tensor Flow Other: R, MatLab, Prolog Development & Database: Android, Oracle, MySQL, CodeIgniter Hardware: ATmega32 - Atmel Corporation, Arduino
COMMUNITY SERVICES	Reviewer <span style="float: right;">IEEE Transactions on Cybernetics</span>  Founding Member Information and Communication Secretary <span style="float: right;">September 2011 – November 2013</span> <a href="#">Engineering Students Association of Bangladesh (ESAB)</a>  Organizing Committee Member <span style="float: right;"><a href="#">WALCOM 2015</a>, <a href="#">NSysS 2015</a>, <a href="#">2016</a>, <a href="#">2017</a></span>