

Arifa Islam Champa

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Education

M. Sc.(Engg) in Computer Science & Engineering,
Islamic University of Technology (IUT)

2019 - Present

B. Sc.(Engg) in Computer Science & Engineering,
Rajshahi University of Engineering & Technology (RUET)

2013 - 2017

Thesis: Comparative Analysis of Effective Subspace Detection Techniques for Hyper-spectral Image Classification

CGPA: 3.73/4.00 (8th among 117 students)

Experience






Lecturer

3 September, 2018 - Present

Department of Computer Science & Engineering

Bangladesh Army International University of Science & Technology (BAIUST)

Publications

1. **A. I. Champa**, M. F. Rabbi, S. M. Mahedy Hasan, A. Zaman and M. H. Kabir, "Tree-Based Classifier for Hyperspectral Image Classification via Hybrid Technique of Feature Reduction," International Conference on Information and Communication Technology for Sustainable Development (**ICICT4SD**), **2021**. 
2. M. F. Rabbi, S. M. M. Hasan, **A. I. Champa**, M. R. Hossain and M. A. Zaman, A Convolutional Neural Network Model for Screening COVID-19 Patients Based on CT Scan Images, accepted at International Conference on Big Data, IoT and Machine Learning (**BIM 2021**).
3. S. M. Mahedy Hasan, M. F. Rabbi, **A. I. Champa** and M. A. Zaman, Machine Learning Based Models for Predicting Autism Spectrum Disorders, accepted at International Conference on Big Data, IoT and Machine Learning (**BIM 2021**).
4. M. F. Rabbi, S. M. M. Hasan, **A. I. Champa** and M. A. Zaman, "A Convolutional Neural Network Model for Early-Stage Detection of Autism Spectrum Disorder," International Conference on Information and Communication Technology for Sustainable Development (**ICICT4SD**), **2021**. 
5. S. M. M. Hasan, M. F. Rabbi, **A. I. Champa** and M. A. Zaman, "A Comparative Study of Classification Approaches for COVID-19 Prediction," International Conference on Information and Communication Technology for Sustainable Development (**ICICT4SD**), **2021**. 
6. **A. I. Champa**, S. M. M. Hasan, M. A. Rahman and M. F. Rabbi, "Hybrid Technique for Classification of Hyperspectral Image Using Quadratic Mutual Information", IEEE Region 10 Symposium (**TENSYP**), **Dhaka, Bangladesh, 2020**, pp. 933-936. 
7. S. M. M. Hasan, M. F. Rabbi, **A. I. Champa** and M. A. Zaman, "A Machine Learning-Based Model for Early Stage Detection of Diabetes", 23rd International Conference on Computer and Information Technology (**ICCIT**), **19-21 December 2020** Dhaka, Bangladesh. 

8. S. M. M. Hasan, M. F. Rabbi, **A. I. Champa** and M. A. Zaman, "An Effective Diabetes Prediction System Using Machine Learning Techniques", 2nd International Conference on Advanced Information and Communication Technology (**ICAICT**), **28-29 November 2020**, Dhaka, Bangladesh.. 
9. M. F. Rabbi, S. M. M. Hasan, **A. I. Champa**, M. A. Zaman and M. K. Hasan, "Prediction of Liver Disorders using Machine Learning Algorithms: A Comparative Study", 2nd International Conference on Advanced Information and Communication Technology (**ICAICT**), **28-29 November 2020**, Dhaka, Bangladesh. 
10. **A. I. Champa**, M. F. Rabbi and N. Banik, "Improvement in Hyperspectral Image Classification by Using Hybrid Subspace Detection Technique", 2019 International Conference on Sustainable Technologies for Industry 4.0 (**STI**), **Dhaka, Bangladesh, 2019**, pp. 1-5. 

Honours & Scholarships

Participant, National Girls Programming Contest	2017
Participant, ICPC (Dhaka Region)	2015
Participant, RUET DAY Programming Contest	2013
Voice of RUET, Inter RUET Debate Competition	2013
University Stipend	2013 - 2017
Secondary School Certificate (SSC) Scholarship	2010

Skills

Programming Languages: Java, C, C++, Python, MATLAB, SQL, Assembly.
Web Programming: HTML, CSS, PHP, Javascript.
IDE: Anaconda, CodeBlocks, Xampp, Eclipse.
Frameworks: PyTorch, TensorFlow.
Familiar OS: Windows, Ubuntu.
Hands on: CISCO Packet Tracer, Latex, OpenGL, Oracle.
Communication: Bangla(Native Proficiency), English(Full Professional Proficiency).
Personal: Good analytical & writing skill, problem solving.

Projects

Bus Ticket Management 2016
 Bus Ticket Management was developed on Android platform using Java with the feature of online ticket booking or buying of specific route of various buses.

Semester Guideline 2015
 Semester guideline is a web application designed using CSS, HTML, PHP and MySQL database. The features include posting status, commenting, profile updating, file updating, image sharing and log-in option with verified email.

Save Girls 2013
 Save Girls is an Android application that can send location to a specific person if the victim presses a button.

Extra Curricular Activities

President , NIROB (Nirapod Rokter Bondhon)	2013 - 2017
Founding Member , RCF(Ruet Career Forum)	2015 - 2017
Vice-President , NARS (Narsingdi Association of RUET Student)	2013 - 2017
Volunteer , National High School Programming Contest (NHSPC)	March'16
Volunteer , National Collegiate Programming Contest(NCPC)	September'15

Training	<i>Advances in Computer Vision: Recent Trends and Application</i> Islamic University of Technology	09-12 December'19
	<i>Top-Up IT Training (Java)</i> Bangladesh Computer Council (BCC)	April'17 - December'17
Mentorship & Services	<i>Batch Coordinator</i> Dept. of CSE (13 th Batch), BAIUST	Fall'21- Present
	<i>Member</i> Industrial Attachment Team (CSE), BAIUSTS	September'21- Present
	<i>Program Coordinator</i> Dept. of CSE, BAIUST	October'20- September'21
	<i>Batch Coordinator</i> Dept. of CSE (6 th Batch), BAIUST	Spring'19- Spring'20
	<i>Co-advisor</i> BAIUST Computer Club	Fall'18- Fall'19
	<i>Conducted Courses:</i> <ul style="list-style-type: none"> • CSE-101: Computer Fundamental and Basic Programming • CSE-102: Computer Fundamental and Basic Programming Sessional • CSE-109: Computer Programmimg • CSE-110: Computer Programmimg Sessional • CSE-203: Data Structures • CSE-204: Data Structures Sessional • CSE-215: Algorithms • CSE-216: Algorithms Sessional • CSE-313: Applied Statistics • CSE-411: VLSI Design • CSE-412: VLSI Design Sessional 	
Teaching		