

Tahira Alam

Assistant Professor

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Research Profile: <https://scholar.google.com/citations?user=dqg6FwkAAAAJ&hl=en>

Education

- **MS(Master's) in Computer Science and Engineering (2015-2016)**
Department of Computer Science and Engineering, University of Dhaka, Dhaka, Bangladesh.
 - CGPA: **3.65/4.00**
 - **Thesis:** An Ensemble Method for Imbalanced Multi-class Classification and Regression for Imbalanced Data
- **B.Sc. in Computer Science and Engineering (2011-2015)**
Department of Computer Science and Engineering, University of Dhaka, Dhaka, Bangladesh.
 - CGPA: **3.77/4.00**
 - **Thesis:** An efficient approach of mining subgraphs using supergraph: mSpan

Research

- **Research Interests:**
Machine Learning, Computer Vision, AI, Data Mining
- **Total Publications:**
2 international journal papers and 9 international conference papers.
- **Selected Publications:**
 1. **Tahira Alam**, Chowdhury Farhan Ahmed, Sabit Anwar Zahin, Muhammad Asif Hossain Khan, Maliha Tashfia Islam, "An Effective Recursive Technique for Multi-Class Classification and Regression for Imbalanced Data", IEEE Access, 7: 127615-127630 (2019)
 2. Sabit Anwar Zahin, Chowdhury Farhan Ahmed, **Tahira Alam**, "An effective method for classification with missing values", Applied Intelligence: 48(10): 3209-3230 (2018)
 3. **Tahira Alam**, Chowdhury Farhan Ahmed, Sabit Anwar Zahin, Muhammad Asif Hossain Khan, Maliha Tashfia Islam, "An Effective Ensemble Method for Multi-class Classification and Regression for Imbalanced Data", In Proceedings of the 18th Industrial Conference on Data Mining (ICDM 2018): 59-74 (2018)
 4. Md Abdul Karim, Md Jahidul Islam Razin, Nahid Uddin Ahmed, Md Shopon, **Tahira Alam**, "An automatic violence detection technique using 3D convolutional neural network", Sustainable Communication Networks and Application: Proceedings of ICSCN 2020: 17-28(2020)
 5. Salman Md Sultan, Mubina Tarannum Mollika, Sharvi Ahmed Fahim, **Tahira Alam**, Alaelddin FY Mohammed, Tanzina Islam, "Automated cell counting system using improved implicit activation based U-Net (IA-U-Net)", 2023 IEEE 5th Eurasia Conference on Biomedical Engineering, Healthcare and Sustainability (ECBIOS): 1-4(2023)

Experiences

- **Assistant Professor (July 2020-Present)**
Department of Computer Science and Engineering, University of Asia Pacific, Dhaka, Bangladesh.
Responsibilities: Conducting classes, **Supervising thesis and project groups**, advising students.
- **Lecturer (April 2018 – June 2020)**
Department of Computer Science and Engineering, University of Asia Pacific, Dhaka, Bangladesh.
Responsibilities: Conducting classes, **Supervising thesis and project groups**, advising students.

- **Lecturer** (January 2017 – March 2018)
Department of Computer Science and Engineering, Daffodil International University, Dhaka, Bangladesh.
Responsibilities: *Conducting classes, Supervising thesis and project groups, advising students.*
- **Research Assistant** (January 2014 –December 2016)
Data Mining and Machine Learning Research Group
Department of Computer Science and Engineering, University of Dhaka, Dhaka, Bangladesh.
Responsibilities: *Conducting research works, experiments and writing research articles.*

Technical Skills

- **Programming Languages:** Python (Keras, TensorFlow and others), C, C++, C#, Java(Weka and others), Prolog.
- **Web Design:** PHP, HTML, CSS.
- **Database Management:** SQL, MySQL, Oracle.
- **Design and animation:** AutoCAD, Google, Sketchup, Arena,OpenGL.

Selected Projects

- E-commerce web application development with PHP (in Object Oriented manner).
- Online shop design using various software design patterns with PHP.
- Design and implementation of switch controlled car using Arduino interface.
- Library Management System design with MySQL and C#.
- Snake game with assembly language (MASM).
- Dynamic DX-ball game development with Java Applet.
- Curzon Hall and TajMahal design using Google Sketchup.
- Snake-ladder game development with OpenGL and C.

Awards, Scholarships and Extra-curricular

- **Scholarship:** Government Scholarship for brilliant result in Secondary School Certificate Examination (SSC) in 2007.
- **Participation**
 - Participated in the **7th International Conference on Pattern Recognition and Machine Intelligence** in December 2017.
 - Participated at the **poster presentation** for MS thesis in January 2017.
 - Participated in a seminar on **Research Methodology** arranged by IEERD, University of Asia Pacific.
- **Leadership Activities:**
 - **Founding member** and **Ex-Treasurer** at CSEDU Students Club.
 - Served as the **class representative** in university (2011-2016).
 - Participated in various **social works**.
 - Organized various programs.
- **Extra-curricular Activities:**
 - Learning Judo since 2014 till present and achieved **Black belt** in Judo in 2019. Participated in **National Judo tournament**.
 - Played Lawn Tennis at **National tournament** in 2004.
 - Good at **painting**.

References

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