Tanvir Ahammad

Lecturer of Computer Science and Engineering, Jagannath University

- **Date of Birth**: Aug. 12, 1990
- **Office**: 9-10, Chittaranjan Avenue, Dhaka-1100, Bangladesh
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Research Interests

- ☞ Big Data Applications
- ☞ Data Mining
- ☞ Text Mining
- ☞ Cloud Computing
- ☞ Software Engineering

Skills

Programming:

C, C++, Java, Python	● ● ● ● ●
C#, R, PHP, SQL	● ● ● ● ○
Prolog, Assembly	● ● ● ● ○
Shell scripting	● ● ● ○ ○

Tools & Platforms:

ASP .NET, CloudSim	● ● ○ ○ ○
GATE for NLP	● ● ● ○ ○
OpenStack, Fiware	● ● ○ ○ ○

Computer Networking:

Routers, Switches	● ● ● ○ ○
TCP/IP, LAN, WLAN	● ● ● ○ ○

Education

Postgraduate Study

2014 – 2015	**M.Sc. in Computer Science and Engineering** **Grade:** CGPA: 3.88/4.00 **(3rd Position)**	**Jagannath Univ., Bangladesh**

Undergraduate Study

2010 – 2013	**B.Sc. Computer Science and Engineering** **Grade:** CGPA: 3.73/4.00 **(3rd Position)**	**Jagannath Univ., Bangladesh**

Secondary and Higher Secondary Studies

2008	**H.S.C. in Science Group** **Grade:** GPA: 5.00/5.00	**Comilla Board, Bangladesh**
2006	**S.S.C. in Science Group** **Grade:** GPA: 5.00/5.00	**Comilla Board, Bangladesh**

Publications

Journals

- **Tanvir Ahammad**, Tamanna Yesmin, Md. Mahmudul Hasan, Sudipta Kumar Mondal and Selina Sharmin. "An approach for collaboration between different stakeholders to strengthen the public health system". Informatica (Slovenia), 2022. **(Accepted, Q3)**.

- **Tanvir Ahammad**. "RISK FACTOR IDENTIFICATION FOR STROKE PROGNOSIS USING MACHINE-LEARNING ALGORITHMS." Jordanian Journal of Computers and Information Technology (JJCIT) vol 8, no. 03 (2022). **(Q3)**.

- **Tanvir Ahammad**, Md. Delwar Hossain and Md. Mahmudul Hasan. "Towards an Online Legal Service Platform: A Framework for Client Lawyer Interaction in Bangladesh." Indonesian Journal of Multidiciplinary Research (IJoMR), Vol 2, No 2 (2022).

- **Tanvir Ahammad**, Md. Khabir Uddin, Tamanna Yesmin, Abdul Karim, Sajal Halder and Md. Mahmudul Hasan. "Identification of Abusive Behavior Towards Religious Beliefs and Practices on Social Media Platforms." International Journal of Advanced Computer Science and Applications(IJACSA), 12(6), 2021. **(Q3)**

Conferences

- Md. Alavi, Selina Sharmin, Md. Ashraf Uddin, **Tanvir Ahammad** and Fatema Siddika. "Profitable Ranking of Stock Market Organizations using Different Machine Learning Models." IEEE Region 10 Humanitarian Technology Conference (R10 HTC). IEEE, 2021.

- Siddique, Md Tanvir Alam, Selina Sharmin, and **Tanvir Ahammad**. "Performance Analysis and Comparison Among Different Task Scheduling Algorithms in Cloud Computing." In 2020 2nd International Conference on Sustainable Technologies for Industry 4.0 (STI), pp. 1-6. IEEE, 2020.

- **Tanvir Ahammad**, Md. Khabir Uddin, Abdul Karim and Sajal Halder. "A Framework for Detecting and Tracking Religious Abuse in Social Media." Published by International Conference on Computing, Power and Communication Technologies (GUCON 2019). IEEE, 2019.

- Aziz, Habiba Binte, Selina Sharmin, and **Tanvir Ahammad**. "Cloud Based Remote Healthcare Monitoring System Using IoT." In 2019 International Conference on Sustainable Technologies for Industry 4.0 (STI), pp. 1-5. IEEE, 2019.

- **Tanvir Ahammad**, Uzzal Kumar Acharjee, and Md Mahmudul Hasan. "Energy-Effective Service-Oriented Cloud Resource Allocation Model Based on Workload Prediction." Published by 2018 21st International Conference of Computer and Information Technology (ICCIT). IEEE, 2018.

Research Experience

2021–2022	**An approach for making collaboration between different stakeholders to strength the public health system in Bangladesh** Current research, funded research project by Jagannath University Research Grant in the fiscal year 2021-2022.
2019–2020	**Religious abuse detection on social media platforms** Funded research project by Jagannath University Research Grant. Gained insights into identifying offensive expressions from text using NLP techniques. Published research in an indexed international journal.
2014–2015	**Energy-effective service oriented cloud resource allocation model based on workload prediction** Masters degree thesis, supervised by Prof. Dr. Uzzal Kumar Acharjee, Dept. of CSE, Jagannath University. Developed in-depth knowledge of literature searching, basic cloud computing techniques, and energy consumption prediction using machine learning algorithms. Presented research at one academic conference through oral presentations.
2013	**Towards the application of big data: an approach for making data driven healthcare decision** Undergraduate thesis under the supervision of Mehnaz Tabassum, Asst. Prof., Dept. of CSE, Jagannath University. Gained experience in Big Data and its application in healthcare. My thesis report for this project was awarded a First Class mark.
May, 2011 – Nov, 2013	**Undergraguate Research Fellow** **Jagannath Univ., Bangladesh** Performed as an Undergraduate Research Fellow under the project of Re-engineering of the Information Technology Research and Resource Center (ITRRC)-a project of HEQEP, UGC, GoB and World Bank (2011-2013). I developed two simulators during the fellowship, including–

- Development of a simulation model for CPU scheduling algorithms.
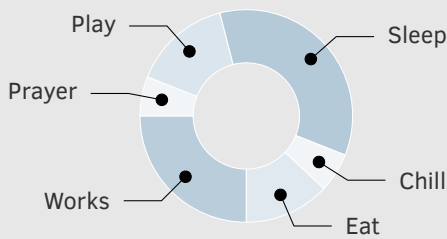- Designed a simulation model of different sorting algorithms.

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Teaching Experience

Jan, 2018 – ongoing	**Lecturer** **Jagananth Univ., Bangladesh** **Courses taught**: Structured Programming, Data Mining & Machine Learning, Design & Analysis of Algorithm, Peripherals & Interfacing, Structured Programming, Compiler Design, Electrical Circuit Analysis, Basic Electronics, Computer Graphics & Multimedia, and Mathematical Analysis for Computer Science, Operating Systems, Cryptography and Information Security.
July, 2019 – Dec, 2020	**Adjunct Lecturer** **Bangladesh Univ. of Professionals, Bangladesh** Working as an Adjunct Lecturer for one day/week at Dept. of Information & Communication Technology. **Courses taught**: Data Structures, Database Management System, and Operating Systems.
March, 2016 – Jan, 2018	**Lecturer** **Dhaka International Univ., Bangladesh** **Courses taught**: Operating Systems, Digital Systems, Artificial Intelligence & Neural Network and Structured Programming, Data & Telecommunications, Computer Networks, Data Structures, Computer Organization & Architecture.

Funding and Awards

- Obtained Research Fund from Jagannath University Research Grant in the fiscal years 2019-2020 and 2021-2022.

- Nominated as Fellowship of BdREN (Bangladesh Research and Education Network) at MEETBdREN Summit 2016.

- Champion of project competition organized by ITRRC in 2013.

- Recognized as outstanding performance for Undergraduate Research Fellow activities in 2013.

Daily Schedule Wheel Chart

Sleep · Chill · Eat · Works · Prayer · Play

Academic Projects

- Hotel Reservation System
- Desktop-based Library Management System
- Client-Server Chat Application
- Developing Weather Prediction Tool
- Development of an Online Course Materials Management System
- Designing simulations for classic problems of synchronization
- Building StackOverflow assistant
- Image Captioning using Deep Learning Model

Positions of Responsibility

- Managing and mentoring of Cricket and Football of CSE JnU team. (currently)
- Conducted workshops on Academic and Industrial collaboration of Dept. of CSE, JnU. (from 2019 to 2020)
- Mentoring of Jagananth University Programming Club (JnUPC). (from 2018 to 2019)
- Member of Bangladesh Computer Society (Membership ID: AM-12089). (from 2018 to 2020)
- Trainer for the Python and Artificial Intelligence, Department of Secondary and Higher Education, Ministry of Education, Bangladesh. (2022)
- Member-secretary for designing an Outcome Based Education (OBE) curriculum. (2022)

Professional Development

Aug, 2020 — **AWS Fundamentals: Going Cloud-Native** · Coursera, Offered by aws.
Skills gained:Cloud Computing Security, AWS cloud, Cloud Storage, cloud networking, and Cloud Computing.

Jul, 2020 — **Introduction to Deep Learning** · Coursera, Offered by HSE Univ.
Skills gained: Recurrent; Neural Network; Tensorflow; Convolutional Neural Network; Deep Learning.

Jul, 2020 — **Machine Learning with Python** · Coursera, Offered by IBM
Skills gained: Regression, classification, clustering, sci-kit learn and SciPy.

Jun, 2020 — **Introduction to Big Data** · Coursera, Offered by Univ. of California San Diego
Skills gained: Big Data; Apache Hadoop; Mapreduce; Cloudera.

Jun, 2020 — **Introduction to the IoT and Embedded Systems** · Coursera, Offered by Univ. of California, Irvine
Skills gained:Internet Of Things (IOT); Microcontroller; Embedded System Design; Wireshark.

Jun, 2020 — **Natural Language Processing** · Coursera, Offered by HSE Univ.
Skills gained: Chatterbot; Tensorflow; Deep Learning; Natural Language Processing.

Jun, 2020 — **Tools for Data Science** · Coursera, Offered by IBM
Skills gained: Jupyter Notebooks, JupyterLab, RStudio IDE, Git, GitHub, Watson Studio, and Skills Network Labs.

May, 2020 — **Basic Sentiment Analysis with TensorFlow** · Coursera, Offered by Coursera Project Network
Developed skills: Deep Learning; Artificial Neural Network; Machine Learning; Document Classification; Tensorflow.

May, 2020 — **Neural Network from Scratch in TensorFlow** · Coursera, Offered by Coursera Project Network
Developed skills: Data Science; Deep Learning; Mathematical Optimization; Artificial Neural Network; Tensorflow.

References

Ref. 1 — **Dr. Uzzal Kumar Acharjee** · Professor, Jagannath Univ., Bangladesh
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Ref. 2 — **Dr. Md. Abu Layek** · Associate Professor, Jagannath Univ., Bangladesh
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Ref. 3 — **Dr. Md. Ashraf Uddin** · Associate Professor, Jagannath Univ., Bangladesh
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