

# Raihan Tanvir

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## Work Experience

- Nov 2022 - Present    **Lecturer**, Department of Computer Science & Engineering  
**Ahsanullah University of Science & Technology, Dhaka**
- Mar 2022 - Nov 2022    **Lecturer**, Department of Computer Science & Engineering  
**Stamford University Bangladesh, Dhaka**
- Jul 2021 - Oct 2022    **Adjunct Faculty**, Department of Computer Science & Engineering  
**Ahsanullah University of Science & Technology, Dhaka**

## Education

- Jun 2021 – Ongoing    **MSc. in Computer Science & Engineering**  
**BRAC University, Dhaka**
  - CGPA \*: 4.00/4.00
  - Courses: Advanced Artificial Intelligence, Symbolic Machine Learning-I, Graph Theory, Natural Language Processing, Neural Networks and Fuzzy Systems, Mathematical Programming
- Apr 2016 – Jan 2021    **BSc. in Computer Science & Engineering**  
**Ahsanullah University of Science & Technology, Dhaka**
  - CGPA: 3.81/4.00
  - Thesis Title: *Jamdani Motif Generation using Conditional Generative Adversarial Networks*
  - Supervisor: Mohammad Imrul Jubair, Assistant Professor, CSE, AUST

## Research Experience

### Conference Proceedings

1. **R. Tanvir**, M. T. R. Shawon, M. H. K. Mehedi, M. M. Mahtab, and A. A. Rasel, “A GAN-BERT Based Approach for Bengali Text Classification with a Few Labeled Examples,” in *Distributed Computing and Artificial Intelligence, 19th International Conference*, Cham: Springer International Publishing, 2023, pp. 20–30, ISBN: 978-3-031-20859-1. DOI: 10.1007/978-3-031-20859-1\_3.
2. M. T. Rouf Shawon, **R. Tanvir**, and M. G. Rabiul Alam, “Bengali Handwritten Digit Recognition using CNN with Explainable AI,” in *2022 4th International Conference on Sustainable Technologies for Industry 4.0 (STI)*, 2022, pp. 1–6. DOI: 10.1109/STI56238.2022.10103341.
3. M. T. R. Shawon, **R. Tanvir**, H. F. Shifa, S. Kar, and M. I. Jubair, “Jamdani Motif Generation using Conditional GAN,” in *2020 23rd International Conference on Computer and Information Technology (ICCIT)*, Dec. 2020, pp. 1–6. DOI: 10.1109/ICCIT51783.2020.9392654.

### Preprints

1. **R. Tanvir**, M. T. R. Shawon, and M. G. R. Alam, *DSE Stock Price Prediction using Hidden Markov Model*, 2023. DOI: 10.48550/ARXIV.2302.08911. [Online]. Available: <https://arxiv.org/abs/2302.08911>.

## Skills

- Programming Language    Python, C/C++, C#, Java, PHP, MATLAB
- Python Libraries    NumPy, Pandas, Matplotlib, SciKit-Learn
- DL Frameworks    TensorFlow, Keras, PyTorch
- Databases    MySQL, SQLite, Oracle PL/SQL

## Skills (continued)

Web Development	■	HTML, CSS, JavaScript, ASP.NET MVC-5
App Development	■	Flutter, Android
Version Control & OS	■	Git, Github, Linux, Windows
Misc.	■	Academic Research, Teaching, L <sup>A</sup> T <sub>E</sub> X

## Academic Projects

Aug 2020	■	<b>Bengali Handwritten Character Recognition using Transfer Learning</b> • Tools: FastAi • Dataset: Ekush
Sep 2019	■	<b>Chain Shop Management System</b> [Distributed Database] [No GUI] • Tools: Oracle PL/SQL
Feb 2019	■	<b>E-Commerce Site using ASP.NET MVC 5</b> • Tools: C#, HTML, CSS & MySQL
	■	<b>Arduino Based Human Detector Robot</b> • Tools: C++ • Hardware: Arduino Mega, DC Motor, PIR Sensor, BT
Aug 2018	■	<b>Car Dealer Site using Raw PHP</b> • Tools: PHP, HTML, CSS & MySQL
Mar 2018	■	<b>Blood Donor Finder – Android App</b> • Tools: Android Studio & SQLite
Aug 2017	■	<b>Inventory Management System using Java SWING</b> • Tools: Java & MySQL
Feb 2017	■	<b>First Person Shooting Game using iGraphics</b> • Tools: C++

## Additional Information

### Awards and Scholarships

Jan 2022	■	<b>Performance Based Scholarship</b> , Brac University, Dhaka
Oct 2021	■	<b>Performance Based Scholarship</b> , Brac University, Dhaka
Jan 2021	■	<b>Dean's List of Honor</b> , Ahsanullah University of Science & Technology, Dhaka
Dec 2019	■	<b>Performance Based Scholarship</b> , Ahsanullah University of Science & Technology, Dhaka
May 2013	■	<b>SSC Scholarship</b> , Board of Intermediate and Secondary Education, Chattogram

### Massive Open Online Courses

Mar 2020	■	<b>Computer Vision Basics</b> , Coursera
Apr 2020	■	<b>Neural Networks and Deep Learning</b> , Coursera
	■	<b>Convolutional Neural Networks</b> , Coursera
May 2020	■	<b>Improving Deep Neural Networks: Hyperparameter tuning, Regularization and Optimization</b> , Coursera
	■	<b>Structuring Machine Learning Projects</b> , Coursera
Aug 2020	■	<b>Sequence Models</b> , Coursera

## References

**Dr. S.M.A. Al-Mamun**  
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