

Zabir Mohammad

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Academic Experience

- 2021 – 2022 **Research Assistant**, Dept. of Computer Science and Engineering, Bangladesh University of Business & Technology, Dhaka, Bangladesh.
- 2022 – 2023 **Adjunct Co-Investigator**, Dept. of Information Technology, King Abdul Aziz University, Jeddah, Saudi Arabia.
- 2021 – Present **Researcher**, Advanced Machine Intelligence Research Lab, Dhaka, Bangladesh.

Education

- 2017 – 2021 **Bachelor of Science in Computer Science and Engineering**, Bangladesh University of Business & Technology, Bangladesh.
Final Grade: 3.8/4.00
Thesis: *An Offline Writer-independent Signature Verification System using AutoEmbedder.*
- 2014 – 2016 **Higher Secondary School Certificate**, Tejgoan Collage, Dhaka, Bangladesh.
Grade: 4.75/5.00
- Secondary School Certificate**, Government Science School, Dhaka, Bangladesh.
Grade: 5.00/5.00

Research Publications

Journal Articles

- 1 **Mohammad, Z.**, Anwary, A. R., Mridha, M. F., Shovon, M. S. H., & Vassallo, M. (2023). An enhanced ensemble deep neural network approach for elderly fall detection system based on wearable sensors. *Sensors*, 23(10), 4774.
- 2 Mridha, M., **Mohammad, Z.**, Kabir, M. M., Lima, A. A., Das, S. C., Islam, M. R., & Watanobe, Y. (2023). An unsupervised writer identification based on generating clusterable embeddings. *Computer Systems Science & Engineering*, 46(2).
- 3 **Mohammad, Z.**, Kabir, M. M., Monowar, M. M., Hamid, M. A., & Mridha, M. F. (2022). Self-writer: Clusterable embedding based self-supervised writer recognition from unlabeled data. *Mathematics*, 10(24), 4796.

Conference Proceedings

- 1 **Mohammad, Z.**, Jahan, I., Kabir, M. M., Ali, M. A., & Mridha, M. (2021). An offline writer-independent signature verification system using autoembedder. In *2021 24th international conference on computer and information technology (iccit)* (pp. 1–6). IEEE.

Research Interest

- Deep learning, Computer Vision, Self-Supervised learning, Reinforcement Learning, Activity Recognition, Generative Adversarial Network, Data Structure, Algorithm,...

Skills

AI Tools	Keras, TensorFlow, Pandas, NumPy, Matplotlib, Pytorch, Albumentation, ...
Programming Language	Python, Java, C, C++, Git, ...
Databases	MySQL, SQLite, Oracle, ...
Web Dev	HTML, CSS, JavaScript, ...
Misc.	Academic research, teaching, training, \LaTeX , ...

Miscellaneous Experience

Awards and Achievements

- Research Publication Award 2022**, King Abdul Aziz University.
- Annual Research Publication Award 2021**, Advanced Machine Learning Lab.
- Intra-University Programming Contest**: One time Champion and 3 time Runner up.
- Inter-University Programming Contest**: Attended 3 times and conquered highest in top 30.
- Problem Solver**: Solved around 500 problems in various online judges.

Projects

- Android Application for Weather**. AI-based android project for Predicting weather developed using Java, Python, and TensorFlow Lite.
- Adaptive Writer recognition**. Deep learning based Writer identification using adaptive loss developed with Python, Tensorflow.
- Character recognition** Bangla handwritten characters recognition with tensorflow
- Dynamic Web Browser**. A web browser developed using C-sharp. .

References

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