

Abu Zahid Bin Aziz

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Education

August 2022 – Present

📖 **M.Sc. in Computer Science**

University of Utah, USA

CGPA: 3.95 (Out of 4.00)

January 2016 – February 2021

📖 **B.Sc. in Computer Science & Engineering**

Rajshahi University of Engineering & Technology, Bangladesh.

Thesis title: *Identification of RNA Pseudouridine Sites using Deep Learning Approaches*

CGPA: 3.31 (Out of 4.00)

Experience

August 2022 – Present

📖 **Graduate Research Assistant** at Scientific Computing and Imaging Institute of the University of Utah

Responsibilities:

- Applying different deep learning methodologies on different medical imaging datasets
- Contributing to statistical shape modeling based projects.

February 2021 – July 2022

📖 **Junior AI Developer** at MyMedicalHub

Responsibilities:

- Applying state-of-the-art algorithms for various computer vision tasks such as pose estimation, instance segmentation.
- Developing and monitoring a live AI based server that handles thousands of API requests everyday.

June 2020 – January 2021

📖 **Research Assistant** at MyMedicalHub

Responsibilities:

- Developed a deep learning method for detecting abnormalities from musculoskeletal images.
- Contributed to multiple human pose estimation based projects.

Research Publications

Journal Publications

- 1 Aziz, A. Z. B., Hasan, M. A. M., Ahmad, S., Mamun, M. A., Shin, J., & Hossain, M. R. (2022). Iacp-multicnn: Multi-channel cnn based anticancer peptides identification. *Analytical Biochemistry*, 650, 114707. 🔗 <https://doi.org/https://doi.org/10.1016/j.ab.2022.114707>
- 2 Aziz, A. Z. B., Hasan, M. A. M., & Shin, J. (2021a). Identification of rna pseudouridine sites using deep learning approaches. *PLOS ONE*, 16, 1–13. 🔗 <https://doi.org/10.1371/journal.pone.0247511>

Books and Chapters

- 1 Al Mamun, M., Aziz, A. Z. B., Uddin, M. P., & Hossain, M. R. (n.d.). Prediction of the dengue incidence in bangladesh using machine learning, In *Applied intelligence for industry 4.0*. Chapman; Hall/CRC.
- 2 Aziz, A. Z. B., Hasan, M. A. M., & Shin, J. (2021b). Deep transfer learning-based musculoskeletal abnormality detection, In *Proceedings of international joint conference on advances in computational intelligence*.

Conference Proceedings

- 1 Aziz, A. Z. B., & Hasan, M. A. M. (2020). A mixed convolution neural network for identifying rna pseudouridine sites, In *2020 ieee region 10 symposium (tensymp)*. IEEE.
- 2 Rezoun, A. S. M., Hasan, M. A. M., & Aziz, A. Z. B. (2020). Supervised deep learning methods for human pre-mirna identification, In *2020 ieee region 10 symposium (tensymp)*. IEEE.
- 3 Siddique, M. A. I., Aziz, A. Z. B., & Matin, A. (2020). An improved deep learning based classification of human white blood cell images, In *2020 11th international conference on electrical and computer engineering (icece)*. IEEE.
- 4 Aziz, A. Z. B., & Hasan, M. A. M. (2019). A mixed convolutional neural network for pre-mirna classification, In *2019 3rd international conference on electrical, computer & telecommunication engineering (icecte)*. IEEE.

Skills

Research	■ Academic research, L ^A T _E X typesetting and publishing.
Coding	■ Python, C/C++, SQL, L ^A T _E X, Git
Data Science	■ Machine Learning, Deep Learning, Data Visualization, Big Data.
Libraries	■ Pandas, Numpy, Tensorflow, Keras, Matplotlib, Pytorch, PySpark.
Web Dev	■ HTML, CSS, JavaScript, Django.
Languages	■ Bengali: Mother tongue, English: Fluent (IELTS Score: 7.5)

Professional Activity

Januray 2020 – December 2020	■ Student Member IEEE Bangladesh Section
	■ Student Member IEEE Computer Society

Achievements & Certification

April 2023 – Present	■ Academic Reviewer Profile: https://www.webofscience.com/wos/author/record/IAR-3914-2023
August 2020 – Present	■ Kaggle x2 Expert Profile: https://www.kaggle.com/azaemon
May 2020 – Present	■ Deep Learning Specialization. Coursera- deeplearning.ai.
November 2018 – Present	■ Introduction to Data Science. Coursera- University of Michigan