




# Tasiyaah Kingshook

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🏠 Chofu, Chofugaoka, Tokyo

## Education

- April'24 –  **Masters' Student** in Mechanical Intelligent System  
University of Electro-communication, Tokyo, Japan  
Research Topic: *Vital sign detection of newborn babies using thermal images.*
- Oct'23 – March'24  **Research Student** in Mechanical Intelligent System  
University of Electro-communication, Tokyo, Japan  
Research Topic: *Vital sign detection of newborn babies using thermal images.*
- Jan'16 – Sept'21  **B.Sc.** in Electrical and Computer Engineering  
Rajshahi University of Engineering and technology, Rajshahi, Bangladesh  
Thesis title: *Automatic Image Captioning Using Deep learning.*

## Research Publications






### Conference Proceedings

- 1 T. Kamruzzaman, S. Kamruzzaman, and A. Zaman, "A deep learning approach for bangla image captioning system," in *2021 Joint 10th International Conference on Informatics, Electronics Vision (ICIEV) and 2021 5th International Conference on Imaging, Vision Pattern Recognition (icIVPR)*, 2021, pp. 1–6.  
 DOI: 10.1109/ICIEVicIVPR52578.2021.9564129.
- 2 M. R. Islam, A. Matin, and T. Kamruzzaman, "Automatic identification of driver inattentiveness using convolutional neural networks," in *2020 IEEE International Women in Engineering (WIE) Conference on Electrical and Computer Engineering (WIECON-ECE)*, 2020, pp. 21–24.  DOI: 10.1109/WIECON-ECE52138.2020.9398040.
- 3 T. Kamruzzaman, "Arabic to bangla machine translation using encoder decoder approach," in *2020 IEEE Region 10 Symposium (TENSYP)*, 2020, pp. 1176–1179.  DOI: 10.1109/TENSYP50017.2020.9230786.

### Books and Chapters

- 1 T. Kamruzzaman, A. Matin, T. Seuti, and M. Islam, *Automatic Image Captioning Using Deep Learning*. May 2023, pp. 138–149, ISBN: 9781003256106.  DOI: 10.1201/9781003256106-12.

## Skills

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|-------------------|--|
| Coding            |  Python3, C++   |
| ML framework      |  OpenCV, Caffe, Tensorflow, Pytorch, MLFlow                   |
| Camera Interfaces |  FLIR A315, PURE-THERMAL, BOSTON, GIGABIT, USB                |
| Web Dev           |  HTML, CSS, JavaScript, Apache Web Server, Tomcat Web Server. |
| Misc.             |  GitHub, Confluence, Slack                                    |

## Qualification

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Digital image processing	■ Brightness/contrast enhancement, sharpening, ICC color profiles, resampling and anti-aliasing, image compression and file formats (e.g., JPEG, TIFF, PNG, HEIC, SVG), video compression and file formats (e.g., MP4, H.264, H.265),
Digital and analog Image science	■ Color and sharpness targets, generation of ICC profiles for devices such as color printers, image quality assessment metrics and techniques, color spaces.
AI in digital image	■ Face detection, facial feature finding, smile detection, head pose determination, image quality score, subject/background detection and replacement.

## Awards and Achievements

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2020	■ <b>Winner</b> , IEEE R10 Undergrad-Project Video Contest
2017	■ <b>Honorable Mention</b> , IEEE R10 HTC Idea Contest

## Scholarship

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2023	<b>MEXT Scholarship</b> , For Higher Education in Japan
2018	<b>University Technical Scholarship</b> , Full Tuition Fee waiver in Bachelor for one academic-year.
2016	<b>University Technical Scholarship</b> , Full Tuition Fee waiver in Bachelor for one academic-year.
2010	<b>Bangladesh Govt. Scholarship</b> , in Junior School Certificate (JSC) examination Full Tuition Fee waiver in High-School with stipend for the period of 2010 to 2013.