

Education

- Sep, 2022–present: **PhD in Business Information Systems**, *Royal Melbourne Institute of Technology (RMIT) University*, Australia.
- 2016–2021: **Bachelor of Science, Electrical and Electronic Engineering**, *Hajee Mohammad Danesh Science and Technology University*, Bangladesh.

Work Experience

- Sep, 2022 – Present: **Machine Learning Engineer at carsales.com Ltd**
My role is developing an advanced Artificial intelligence (AI) model to enhance the capability of e-commerce. The main focus is to build a computer vision model to detect objects from video and images.
- Aug, 2020 – Nov, 2020: **Technical Machine Learning internship at PrenuerLAB**
Developed deep learning models such as CNN, RNN, LSTM, GRU, Attention Mechanism, BERT, GPT, etc., for Natural Language Processing is a primary focus. Key responsibilities include constructing a deep learning-based Bangla chatbot and implementing Linux networking functionalities via SSH).

Research Experience

- 2023 – Present: **Car Damage Detection**
In my current role, I specialize in attention architecture for vision, particularly in damage detection. Additionally, I spearhead the development of a Vision Language Model (LLM) to create an end-to-end damage detection system. (*AI and Data Analytics Hub*)
- 2022: **Object Detection and Segmentation**
Developed Advanced AI models such as Attention Mechanism and Transformer to deploy on large-scale object recognition (*Researchgate*)
- 2021: **Deep learning for Biomedical Imaging**
Developed a Deep Learning Based Retinal OCT Image Denoising system with Generative Adversarial Network (Bachelor Thesis paper). Besides, worked on X-ray image segmentation to detect the region responsible for the disease. (*Researchgate*)
- 2020: **Biometric authentication and Face Detection system**
Developed a biometric authentication and information extraction system using computer vision. Further, we integrated this task into criminal face detection and location tracking systems using deep learning and flask. (*Researchgate*)

Publications

In Journal Proceedings

- 2025: **Md. Jahid Hasan**, Kha Cong Nguyen, Hamed Jahani, Yee Ling Boo and Kok-Leong Ong; Vehicle Damage Detection Using Artificial Intelligence: A Systematic Literature Review, In *Proceedings of WIREs Data Mining Knowl Discov*, 15: e70027. <https://doi.org/10.1002/widm.70027>
- 2024: **Md. Jahid Hasan**, Agustinus Nalwan, Kok-Leong Ong, Hamed Jahani, Yee Ling Boo and Kha Cong Nguyen; GroundingCarDD: Text-Guided Multimodal Phrase Grounding for Car Damage Detection, In *Proceedings of IEEE Access*, vol. 12, pp. 179464-179477, 27 Nov. 2024. DOI: 10.1109/ACCESS.2024.3506563

In Conference Proceedings

- 2021 **Md. Jahid Hasan**, Md Shahin Alom, Umme Fatema, Md. Ferdous Wahid; Deep Learning Based Retinal OCT Image Denoising using Generative Adversarial Network, In *proceedings of International Conference on Automation, Control and Mechatronics for Industry 4.0 (ACMI)*, 8-9 July 2021
- 2021 **Md. Jahid Hasan**, Md Shahin Alom, Md Shikhar Ali; Deep Learning based Detection and Segmentation of COVID19 and Pneumonia on Chest Xray Image, In *proceedings of International Conference on Information and Communication Technology for Sustainable Development (ICICT4SD)*
- 2020 **Md. Jahid Hasan**, Md Shahin Alom; Umme Fatema; Mahmudul Hasan Moon; Maize Diseases Image Identification and Classification by Combining CNN with Bi-Directional Long Short-Term Memory Model, In *proceedings of IEEE Region 10 Symposium, 2020*
- 2019 **Md. Jahid Hasan**, Md. Ferdous Wahid; Md. Shahin Alom; Bangla Compound Character Recognition by Combining Deep Convolutional Neural Network with Bidirectional Long Short-Term Memory, In *proceedings of International Conference on Electrical Information and Communication Technology (EICT)*, 2019

Computer Programming skill

Language: Python, C, Java, Android, MySQL, HTML, CSS, JavaScript
Framework: OpenCV, Scikit-Learn TensorFlow, Keras, PyTorch, Flask
Hardware : Linux, Raspberry Pi, Arduino

Project Experience

- 2020 **Real Time Custom Face Recognition APP**, ([YouTube](#))
2020 **Image and Video Segmentation**, ([YouTube](#))
2017 **Autonomous line and wall follower robot**, ([YouTube](#))
2017 **Semi-autonomous quad-copter Drone**, ([YouTube](#))

Teaching Assistantship

- **Advanced Business Analytics**, RMIT University
- **Business IT Infrastructure**, RMIT University

Position of Responsibility

- 2024 **CoBL HDR Candidate Representative**, College of Business and Law (CoBL) at RMIT University
2019 **Robotics convener of IEEE HSTU Student Branch**, HSTU, Dinajpur
Nov, 2019 **Organizer, Maker-Fair 2109 organized by IEEE HSTU Student Branch**, HSTU, Dinajpur

Reference

Professor Kok-Leong Ong

Director, CoBL Technology Initiative

Department: Strategy Int'l & Engagement

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