

Zahid Islam

Graduate Student in Computer Science | Specializing in AI and Machine Learning

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in [linkedin.com/in/zahid58](https://www.linkedin.com/in/zahid58)

📍 Saskatoon, Canada

Education

M.Sc. in CS, *University of Saskatchewan (USask)*

📍 Saskatoon, Canada

📅 Sept 2023 – May 2025 (Expected)

• Courses: Deep Learning (97%), Image Processing & Computer Vision (93%)

• Supervisor - Dr. Mrigank Rochan

B.Sc. in CSE, *Islamic University of Technology (IUT)*

📍 Dhaka, Bangladesh

📅 Jan 2017 – March 2021

• Cumulative GPA: 3.99/4.0, Ranked 1st in a class of 86

• Supervisor - Dr. Md. Hasanul Kabir

Professional Experience

Graduate Teaching Assistant, *University of Saskatchewan (USask)*

📍 Saskatoon, Canada

📅 Sept 2023 – Present

• Courses TA'ed: CMPT 270 - Developing Object-Oriented Systems, CMPT 214 - Programming Principles and Practice.

Lecturer, Dept. of CSE, *Islamic University of Technology (IUT)*

📍 Dhaka, Bangladesh

📅 July 2021 – Aug 2023

• Courses Instructed - Machine Learning Lab, Digital Signal Processing (DSP), Algorithm Engineering, Structured Programming.

Machine Learning Engineer, *Apurba Technologies Ltd.*

📍 Dhaka, Bangladesh

📅 March 2021 – June 2021

• Developed and maintained a web-based Bengali text recognition application in collaboration with cross-functional teams.

• Implemented efficient deep neural networks (eg. EAST, CNN) for detecting words and characters from document images.

Publications

[\[google scholar\]](#)

Research Interests: Multimodal Deep Learning, Computer Vision, NLP.

[1] Z. Islam, S. Paul, M. Rochan, **Unsupervised Video Highlight Detection by Learning from Audio and Visual Recurrence**, Accepted in IEEE/CVF Winter Conference on Applications of Computer Vision (WACV) 2025, Tucson, Arizona. [\[paper\]](#)

[2] Z. Islam, S. Paul, M. Rochan, **Test-Time Adaptation for Video Highlight Detection**, Accepted in Neural Information Processing Systems (NeurIPS) 2024 Workshop: Self-Supervised Learning - Theory and Practice.

[3] Z. Islam, S. Paul, M. Rochan, **Leveraging Audio and Visual Recurrence for Unsupervised Video Highlight Detection**, Accepted in Neural Information Processing Systems (NeurIPS) 2024 Workshop: Self-Supervised Learning - Theory and Practice.

[4] Z. Islam, M. Ruk., R. Ahmed, H. Kabir, M. Farazi, **Efficient Two-Stream Network for Violence Detection Using Separable Convolutional LSTM**, International Joint Conference on Neural Networks (IJCNN) 2021, Shenzhen, China. [\[paper\]](#) [Cited by: 77]

Technical Skills

- Proficient in designing, training, and analyzing deep learning models and applications on **PyTorch** and **Tensorflow**.
- Proficient in programming and problem-solving using algorithms & data structures. 500+ solves in Codeforces & LeetCode.
- Programming - Python, C++, C, Java • ML toolkits - PyTorch, Scikit-learn, OpenCV • UI - PyQt, HTML, CSS, JS

Scholarships & Awards

- **Geddes Graduate Scholarship, USask**: in recognition of academic excellence in master's program in the amount of \$2,500.
- **USask Student Travel Award**: covering travel to the conference Neural Information Processing Systems (NeurIPS) 2024.
- **OIC Scholarship**: covering 3 out of 4 years of undergraduate studies at IUT by Organization of Islamic Cooperation (OIC).
- **European Rover Challenge (ERC), Poland**: 14th position in the robotics competition, European Rover Challenge 2018, with IUT Mars Rover. Worked on arduino-based robotic arm manipulation and object detection using image processing.

Projects

[\[github.com/zahid58\]](https://github.com/zahid58)

- **PoseGL**: Skeletal Animation of an OpenGL graphical model using 3D Pose Estimation from RGB video. *Python, C++, OpenGL*
- **PaligemmaVQA**: Trained Paligemma vision large language model (LLM) on a video question-answering dataset. *JAX, Tensorflow*
- **EasyScan**: An Interactive OCR Whiteboard GUI App with real-time handwritten text recognition. *Python, PyQt, OpenCV*

Online Certifications

[\[verify\]](#)

- **Deep Learning Specialization, Tensorflow Developer Specialization**, by DeepLearning.AI, [coursera.org](https://www.coursera.org). *April 2020*
- **Machine Learning**, by Andrew Ng, [Stanford University, coursera.org](https://www.coursera.org). *Aug 2019*

Organizational and Voluntary Activities

- **VP Social, Computer Science Graduate Council**: engaged in organizing departmental events for the CS department at USask.
- **Organizer, IUT ICT Fest**: organized a national programming contest and managed 120 teams from different universities.