

Shuvozit Ghose

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Summary

An ML engineer/ data scientist with 4+ years of hands-on experience in machine learning research and development. My expertise encompasses a profound understanding of key machine learning concepts, coupled with a comprehensive grasp of data preprocessing, model training, and effective deployment strategies. My practical work has spanned diverse machine learning techniques, including prompt learning, domain adaptation, meta-learning, generative adversarial networks, self-supervised learning, and few-shot learning etc.

Education

Master of Science — ML Specialization

DGPA: 4.20/4.50

Sept 2021 – Oct 2023

University of Manitoba, Canada

Bachelor of Technology — Computer Science and Engineering

DGPA: 8.87/10.

Aug 2016 – Aug 2020

West Bengal University of Technology, India

Technical Skills

Python | Pytorch | Git | Docker | Kubernetes | CI/CD | Azure | Tensorflow | OpenCV | SQL | Numpy | Panda | Java | scikit-learn | C++ | C

Professional Experience

Graduate Teaching Assistant | University of Manitoba

Sept 2021 – Oct 2023 | Canada

- Conducted lab for undergraduate students for course Comp 2140 data structure and algorithm using Java.
- Graded assignments and code in Python for the course COMP 4360 machine learning and provided constructive feedback to students.
- Graded code in Java, C++, and Javascript for the course COMP 2150 object orientation and provided constructive feedback to students.
- Graded projects in Java using Android Studio for the course COMP 3350 Software Engineering and provided constructive feedback to students.
- Graded code in processing for the course COMP 3490 Computer Graphics I and provided constructive feedback to students.

Graduate Research Assistant | University of Manitoba

Sept 2021 – Oct 2023 | Canada

- developed a Pretrained Point Cloud to Image Translation Network for CLIP-based point cloud recognition using Python and Pytorch.
- introduced a novel viewpoint adapter for a prompt-based point cloud recognition system.
- developed a novel few-shot meta-episodic learning framework for CLIP-based point cloud classification.
- Computed inference using PyTorch on both CPU and GPU running CUDA 11.2 (@Acc > 85%).

Research Intern | University of Surrey

June 2020 – Mar 2021 | UK

- developed a multi-stage joint visual semantic reasoning decoder for text recognition using Python and Pytorch.
- developed a Writer-Adaptive Handwritten Text Recognition system using meta-learning.

Achievements

- Awarded **University of Manitoba Graduate Fellowship (UMGF)** at the University of Manitoba 2022-2023.
- Awarded **International Graduate Student Entrance Scholarship (IGSES)** at the University of Manitoba 2021.
- Got NPTEL Elite Certification in Deep Learning for Visual Computing, 2018.

Publications

- Joint Visual Semantic Reasoning: Multi-Stage Decoder for Text Recognition** Oct 2021
C7 Ayan Kumar Bhunia, Aneeshan Sain, Amandeep Kumar, Shuvozit Ghose, Pinaki Nath Chowdhury, Yi-Zhe Song
IEEE Conference on International Conference on Computer Vision (ICCV) [PDF](#)
- MetaHTR: Towards Writer-Adaptive Handwritten Text Recognition** June 2021
C6 Ayan Kumar Bhunia, Shuvozit Ghose, Amandeep Kumar, Pinaki Nath Chowdhury, Aneeshan Sain, Yi-Zhe Song
IEEE Conference on Computer Vision and Pattern Recognition (CVPR) [PDF](#)

- Modeling Extent-of-Texture Information for Ground Terrain Recognition** Sept 2020
C5 **Shuvozit Ghose**, Pinaki Nath Chowdhury, Partha Pratim Roy, Umapada Pal
IEEE International Conference on Pattern Recognition (ICPR) [PDF](#)
- UDBNET: Unsupervised Document Binarization Network via Adversarial Game** Sept 2020
C4 Amandeep Kumar*, **Shuvozit Ghose***, Pinaki Nath Chowdhury, Partha Pratim Roy, Umapada Pal
IEEE International Conference on Pattern Recognition (ICPR) [PDF](#)
- Fractional Local Neighborhood Intensity Pattern for Image Retrieval using Genetic Algorithm** Sept 2020
C3 **Shuvozit Ghose**, Abhirup Das, Ayan Kumar Bhunia, Partha Pratim Roy
Multimedia Tools and Applications [PDF](#)
- A Deep One-Shot Network for Query-based Logo Retrieval** July 2019
C2 Ayan Kumar Bhunia, Ankan Kumar Bhunia, **Shuvozit Ghose**, Abhirup Das, Partha Pratim Roy, Umapada Pal)
Pattern Recognition [PDF](#)
- User Constrained Thumbnail Generation Using Adaptive Convolutions** May 2019
C1 Perla Sai Raj Kishore, Ayan Kumar Bhunia, **Shuvozit Ghose**, Partha Pratim Roy
International Conference on Acoustics, Speech, and Signal Processing (ICASSP) [PDF](#)