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RESEARCH INTERESTS Computer Vision, Deep Learning, Machine Learning, Reinforcement Learning.

PRESENT POSITION Pursuing M.Sc. in Computer Science (since September 2021).

JOB EXPERIENCE **Research Intern** Mar 2021-June 2020
University of Surrey, United Kingdom

EDUCATION **University of Manitoba, Winnipeg (Canada)** Since 2021
- Masters in Computer Science

Maulana Abul Kalam Azad University of Technology, Kolkata (India) 2020
Formerly known as West Bengal University of Technology
- Bachelors in Computer Science & Engineering
- CGPA: 8.87/10
- B.Tech Thesis: ‘A Simplistic All Convolution Net for Efficient Real Time Object Recognition’

JOURNAL PUBLICATIONS

1. **Shuvozit Ghose**, Abhirup Das, Ayan Kumar Bhunia, Partha Pratim Roy, “Fractional Local Neighborhood Intensity Pattern for Image Retrieval using Genetic Algorithm”, **Multimedia Tools and Applications 2020, Springer** (DOI:10.1007/s11042-020-08752-6). [arXiv]
2. Ayan Kumar Bhunia, Ankan Kumar Bhunia, **Shuvozit Ghose**, Abhirup Das, Partha Pratim Roy, Umapada Pal “A Deep One-Shot Network for Query-based Logo Retrieval”, **Pattern Recognition**, Volume 96, Pages 106965, 2019. (DOI:10.1016/j.patcog.2019.106965). [arXiv] (I.F.- 5.898)

CONFERENCE PAPERS

1. Ayan Kumar Bhunia, Aneeshan Sain, Amandeep Kumar, **Shuvozit Ghose**, Pinaki Nath Chowdhury, Yi-Zhe Song, “Joint Visual Semantic Reasoning: Multi-Stage Decoder for Text Recognition”, *International Conference on Computer Vision (ICCV)*, 2021. [Paper] [arXiv] [Youtube]
2. Ayan Kumar Bhunia, **Shuvozit Ghose**, Amandeep Kumar, Pinaki Nath Chowdhury, Aneeshan Sain, Yi-Zhe Song, “MetaHTR: Towards Writer-Adaptive Handwritten Text Recognition”, *Conference on Computer Vision and Pattern Recognition (CVPR)*, 2021. [Paper] [arXiv] [Youtube]
3. **Shuvozit Ghose**, Pinaki Nath Chowdhury, Partha Pratim Roy, Umapada Pal, “Modeling Extent-of-Texture Information for Ground Terrain Recognition”, *International Conference on Pattern Recognition (ICPR)*, Milan, 2020. [Paper] [Github] [arXiv] [Youtube]

4. Amandeep Kumar*, **Shuvozit Ghose***, Pinaki Nath Chowdhury, Partha Pratim Roy, Umapada Pal, “UDBNET: Unsupervised Document Binarization Network via Adversarial Game”, *International Conference on Pattern Recognition (ICPR)*, Milan, 2020.[[Paper](#)] [[Github](#)] [[arXiv](#)] [[Youtube](#)] [[*Equal Contribution](#)]
5. Perla Sai Raj Kishore, Ayan Kumar Bhunia, **Shuvozit Ghose**, Partha Pratim Roy, “User Constrained Thumbnail Generation Using Adaptive Convolutions”, *International Conference on Acoustics, Speech, and Signal Processing (ICASSP)*, London, 2019.[[Paper](#)] [[Github](#)] [[arXiv](#)] [[Oral](#)]

SCIENTIFIC RESEARCH EXPERIENCE

AUG, 2018 **Advisor:** Prof. [Umapada Pal](#) , Ph.D.
TO Head, CVPR Unit, ISI-Kolkata, India
JUL, 2020 **Research Directions:** Logo recognition, detection and segmentation, Ground terrain recognition, Document image binarization.

SEPT, 2018 **Advisor:** Prof. [Partha Pratim Roy](#) , Ph.D.
TO Faculty of CSE, IIT Roorkee, India
JAN, 2021 **Research Directions:** Content based image retrieval, thumbnail generation, Sign language recognition, Document image binarization.

JUNE, 2020 **Advisor:** Prof. [Yi-Zhe Song](#) , Ph.D.
TO Director, SketchX, CVSSP, University of Surrey, United Kingdom
MAR, 2021 **Research Directions:** Handwritin Adaptation, Meta Learning Domain generalization, Few shot Learning.

SEP, 2021 **Advisor:** Prof. [Yang Wang](#) , Ph.D.
TO Faculty of CS, University of Manitoba, Canada
PRESENT **Research Directions:** Video Anomaly Detection, Crowd Counting, Dynamic Scene Deblurring.

AWARDS AND SCHOLARSHIPS

International Graduate Student Entrance Scholarship
University of Manitoba, 2021

Graduate Research Assistant, Computer Vision Lab
University of Manitoba, 2021

TECHNICAL SKILLS

- Programming Languages: C, C++, JAVA, Python.
- Low level Programming : 8085 Assembly.
- Deep Learning Framework: Tensorflow, Pytorch.
- Hardware Exposure: Arduino.
- Web Platform: HTML,CSS,JavaScript.
- Mathematics: Linear-algebra, Probability, Statistics.
- Miscellaneous: OpenCV, LIBSVM library, HTK library.