Omprakash Chakraborty PhD Scholar Email: omchakrabarty@gmail.com; opckgp@iitkgp.ac.in Phone: +91 9475501053

Research Interests:

Computer Vision (Action Recognition, Vision and Language based multi-modal Learning, Object detection in videos and Semantic segmentation)

Deep Learning (Efficient learning, Learning with limited labels and Limited compute resources)

Education:

PhD, Centre for Excellence in Artificial Intelligence (2019-Present) Indian Institute of Technology Kharagpur Topic: Semi and Un-Supervised Representation Learning for Efficient Video Understanding Guide: Prof. Abir Das, Department of Computer Science and Engg., IIT Kharagpur	ongoing
MS, Computer Science and Engineering (2015-2018) Indian Institute of Technology Kharagpur Topic: Multi-Criteria based Network Analysis for Disaster Mangement Guide: Prof. Soumya K. Ghosh, Department of Computer Science and Engg., IIT Kharagpur Prof. Pabitra Mitra, Department of Computer Science and Engg., IIT Kharagpur	9.44/10
B.Tech in Information Technology(IT) (2011-2015) Haldia Institute of Technology, Haldia, West Bengal University of Technology	8.67/10
Higher Secondary Examination (2009-2011) Kendriya Vidyalaya, Haldia, West Bengal CBSE-AISSCE	89.4 %
Secondary Examination (2008-2009) The Assembly Of God Church School, Haldia, West Bengal ICSE	93 % (best of 5)

Experience:

Dec'19 - present	Teaching Assistant for Deep Learning(DL) with 70+ students for every semester in which the course
	was offered
Jun'16 - present	Teaching Assistant for Programming and Data Structure (PDS), with 90+ students for every semester
	in which the course was offered
Jun'18 - June'19	Junior Research Fellow at Department of Computer Science and Engg., IIT Kharagpur.
Jun'15 - June'18	Junior Research Fellow at Department of Computer Science and Engg., IIT Kharagpur.
$\mathrm{Dec'}16$ - $\mathrm{Jun'}17$	Teaching Assistant for Relational Database Management Systems(RDBMS) with 90+ students
Jun'18 - Jun'19	Teaching Assistant for Machine Learning (ML), assisting Prof. Pabitra Mitra, with 80+ students
Dec'16 - Jun'17	Teaching Assistant for Online Data Mining, NPTEL Course

Selected Publications:

- (a) AnyDA: Anytime Domain Adaptation,
 - O Chakraborty, Aadarsh Sahoo, Rameswar Panda, Abir Das International Conference on Learning Representations (ICLR), 2023.
- (b) Semi-Supervised Action Recognition with Temporal Contrastive Learning,
 - O Chakraborty, Ankit Singh, Ashutosh Varshney, Rameswar Panda, Rogerio Feris, Kate Saenko, Abir Das Computer Vision and Pattern Recognition (CVPR), 2021
- (c) Multi-facilities based Road Network Analysis for Flood Hazard Management, O Chakraborty, P Mitra, S K. Ghosh

Journal of Spatial Science, 2019

- (d) Multi-objective based road-link grading for health-care access during flood hazard management , O Chakraborty, Yeshwanth V, P Mitra, S K. Ghosh International Conference on Computational Science and Its Applications(ICCSA), 2018
- (e) A Multi-objective Framework for Assessment of Road Network Vulnerability and Facility Location for Flood Hazard,

O Chakraborty, A Das, A Dasgupta, P Mitra, S K. Ghosh, T N. Mazumdar Transactions in GIS, 2017

(f) A Geospatial Service Oriented Framework for Disaster Risk Zone Identification, O Chakraborty, J Das, A Dasgupta, P Mitra, S K. Ghosh International Conference on Computational Science and Its Applications(ICCSA), 2016

Awards and Achievements:

- (a) Joint Runner's Up for ACM Kolkata Chapter Best BTech (CS/IT) Dissertation Award
- (b) **Topper of I.T. Department**, from 6^{th} semester onwards (W.B.U.T.).
- (c) AAT: Obtained 8th rank all over India in Chemistry in the National Achievement and Aptitude Test.
- (d) Ranked among the **Top 25** who qualified for **Overnite**, **the ICPC based Programming Contest**, **Kshitij**, **IIT-Kharagpur**

Workshops Organized:

- The Dynamic Neural Networks Meets Computer Vision Workshop, CVPR (2021, 2022).
- Conducted yearly workshops on Geospatial Data Modeling, Registry Services and Mobile Apps for GI Application for Government Officials from sixteen National Agencies - Worked with a team of 6, and headed the GIS based Registry Service Development Session (July 2016). Organized an earlier phase of the same workshop in March 2016

Professional Services:

- Reviewer for Association for the Advancement of Artificial Intelligence (AAAI), Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP)

Extra Curricular Activities:

- Won many medals in various sports events which include basketball and athletics.
- Active part in Anti-Ragging Committee.
- Interested in singing and other music related activities.