

<https://anirbanchakraborty.github.io>

1 of 10

Research Fellow

Nov 2015 to Dec 2016

Rapid-Rich Object Search (ROSE) Lab
School of Electrical and Electronic Engineering,
Nanyang Technological University, Singapore
Supervisors: Dr. Dennis Sng, Dr. Junsong Yuan

- Involved in developing deployable computer vision systems for large scale multi-camera video surveillance in collaboration with industrial partners. Research and development problems include person re-identification in real-world camera networks, multi-camera object detection and tracking in crowded scenes, fast anomaly detection and activity forecasting from streaming video data etc.

Post-doctoral Research Fellow

Oct 2014 to Nov 2015

Clinical Imaging Research Centre
Department of Diagnostic Radiology,
National University of Singapore
Supervisors: Dr. David Townsend and Dr. John Totman

- Developed automated image analysis pipeline for segmentation and estimation of trabecular bone volume fraction from MR and micro-CT images. Also established an automated pipeline to quantify adipose tissue from whole body VIBE Dixon MRI.

Graduate Student Researcher

Sep 2009 to Aug 2014

Department of Electrical and Computer Engineering,
University of California, Riverside
Supervisor: Dr. Amit K. Roy-Chowdhury

- Introduced the idea of network consistency to data association problems and proposed a rigorous mathematical framework. Showed its application in problems such as person re-identification, spatio-temporal tracking of biological cells etc.
- Developed a novel image analysis pipeline for high throughput analysis of (3D+t) confocal image stacks of plant meristems. Made fundamental contributions to all components of such a pipeline, viz. image registration, segmentation, spatio-temporal cell tracking and cell resolution 3D reconstruction.
- Investigated the effect of spatio-temporal interrelationships between objects, actions and scene in relation to the human activity recognition and forecasting problems.

Visiting Student Researcher

Jun 2012 to Sep 2012

Janelia Farm Research Campus,
Howard Hughes Medical Institute
Supervisor: Dr. Dmitri M. Chklovskii

- Worked in the 'Fly EM' project that aimed to reconstruct the entire *Drosophila* nervous system from EM image stacks. Developed novel techniques for improving the performance of agglomerative segmentation algorithms and contributed to the software library (GALA) containing the automated segmentation pipeline.

Assistant Systems Engineer - Trainee

Sep 2007 to Jul 2008

Tata Consultancy Services

- Implemented numerous database objects (in pL/SQL) for an Oracle 10g database as a part of a system-development project.

Undergraduate Research

Jul 2006 to Jun 2007

Jadavpur University

- Designed a system identification method to recognize different single phase converter classes using cross-correlation features of output voltage and current waveforms.

1. G. K. Nayak, R. Rawal, I. Khatri, **A. Chakraborty**, “Robust Few-shot Learning Without Using any Adversarial Samples”, *IEEE Transactions on Neural Networks and Learning Systems (T-NNLS)* (accepted, in press) [Core A*].
2. V. Kumar[†], H. Patil[†], R. Lal, **A. Chakraborty**, “Improving Domain Adaptation Through Class Aware Frequency Transformation”, *International Journal of Computer Vision (IJCV)* (2023) 131(11):2888-2907 [Core A*].
3. A. Tripathi, R. R. Dani, A. Mishra, **A. Chakraborty**, “Multimodal query-guided object localization”, *Multimedia Tools and Applications (MTAP)* (2023): 1-25.
4. G. K. Nayak, M. K. Reddy, S. Jain, **A. Chakraborty**, “Mining Data Impressions from Deep Models as Substitute for the Unavailable Training Data”, *IEEE Transactions on Pattern Analysis and Machine Intelligence (T-PAMI)* (2021) 44(11): 8465-8481 [Core A*].
5. A. Lakshmi, **A. Chakraborty**, C. S. Thakur, “EvAn: Neuromorphic Event-Based Sparse Anomaly Detection”, *Frontiers in Neuroscience* 15 (2021): 853.
6. U. Shreemali, **A. Chakraborty**, “Robust Gait Based Human Identification on Incomplete and Multi-view Sequences”, *Multimedia Tools and Applications* (2020) 80(7): 10141-10166..
7. A. Majumder, R. Venkatesh Babu, **A. Chakraborty**, “PerSeg: Segmenting Salient Objects From Bag of Single Image Perturbations”, *Multimedia Tools and Applications* (2020) 79(3): 2473-2493.
8. K. L. Navaneet, R. K. Sarvadevabhatla, S. Shekhar, R. Venkatesh Babu, **A. Chakraborty**, “Operator-in-the-Loop Deep Sequential Multi-Camera Feature Fusion for Person Re-Identification”, *IEEE Transactions on Information Forensics and Security* (2019) 15: 2375-2385 [Core A].
9. A. Lakshmi, **A. Chakraborty**, C. S. Thakur, “Neuromorphic vision: From sensors to event-based algorithms”, *Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery* (2019) 9(4): p.e1310.
10. **A. Chakraborty**, B. Mandal, J. Yuan, “Person Re-identification Using Multiple Egocentric Views”, *IEEE Transactions on Circuits and Systems for Video Technology* (2017) 27(3):484-498.
11. K. Mkrtchyan, **A. Chakraborty**, A. K. Roy-Chowdhury, “Optimal Landmark Selection for Registration of 4D Confocal Image Stacks in Arabidopsis”, *IEEE/ACM Transactions on Computational Biology and Bioinformatics* (2017) 14(2):457-467.
12. **A. Chakraborty**, A. Das, A. K. Roy-Chowdhury, “Network Consistent Data Association”, *IEEE Transactions on Pattern Analysis and Machine Intelligence* (2016) 38(9):1859-1871 [Core A*].
13. **A. Chakraborty**, A. K. Roy-Chowdhury, “Context Aware Spatio-temporal Cell Tracking In Densely Packed Multilayer Tissues”, *Medical Image Analysis* (2015) 19(1):149-163.
14. T. Parag, **A. Chakraborty**, S. Plaza, L. Scheffer, “A Context-Aware Delayed Agglomeration Framework for Electron Microscopy Segmentation”, *PLoS ONE* (2015) 10(5): e0125825.

[†] Denotes equal contribution.

15. J. Nunez-Iglesias, R. Kennedy, S. M. Plaza, **A. Chakraborty**, W. T. Katz, “Graph-based Active Learning of Agglomeration (GALA): a Python library to segment 2D and 3D neuroimages”, *Frontiers in Neuroinformatics* (2014) 8(00034).
16. **A. Chakraborty**, M. M. Perales, G. V. Reddy, A. K. Roy-Chowdhury, “Adaptive Geometric Tessellation for 3D Reconstruction of Anisotropically Developing Cells in Multilayer Tissues from Sparse Volumetric Microscopy Images”, *PLoS ONE* (2013) 8(8): e67202.
17. M. Liu[†], **A. Chakraborty**[†], D. Singh, M. Gopi, R. Yadav, G.V. Reddy, A. K. Roy-Chowdhury, “Adaptive Cell Segmentation and Tracking for Volumetric Confocal Microscopy Images of A Developing Plant Meristem”, *Molecular Plant* (2011) 4(5): 922-931.

ARTICLES UNDER
REVIEW IN
JOURNALS

1. G. K. Nayak, I. Khatri, S. Randive, R. Rawal, **A. Chakraborty**, “DAD++: Improved Data-free Test Time Adversarial Defense”.

CONFERENCE
PUBLICATIONS

1. A. Tripathi, A. Mishra, **A. Chakraborty**, “Query-guided Attention in Vision Transformers for Localizing Objects Using a Single Sketch”, *Winter Conference on Applications of Computer Vision (WACV)*, 2024 [Core A].
2. M. Yashwanth, G. K. Nayak, H. Rangwani, A. Singh, R. V. Babu, **A. Chakraborty**, “Minimizing Layerwise Activation Norm Improves Generalization in Federated Learning”, *Winter Conference on Applications of Computer Vision (WACV)*, 2024 [Core A].
3. A. Tripathi, R. Singh, **A. Chakraborty**, P. Shenoy, “Edges to Shapes to Concepts: Adversarial Augmentation for Robust Vision”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2023 [Core A*].
4. A. Tripathi, A. Mishra, **A. Chakraborty**, “Grounding Scene Graphs on Natural Images via Visio-Lingual Message Passing”, *Winter Conference on Applications of Computer Vision (WACV)*, 2023 [Core A].
5. V. Kumar[†], R. Lal[†], H. Patil, **A. Chakraborty**, “CoNMix for Source-free Single and Multi-target Domain Adaptation”, *Winter Conference on Applications of Computer Vision (WACV)*, 2023 [Core A].
6. G. K. Nayak[†], R. Rawal[†], **A. Chakraborty**, “DE-CROP: Data-efficient Certified Robustness for Pretrained Classifiers”, *Winter Conference on Applications of Computer Vision (WACV)*, 2023 [Core A].
7. J. N. Kundu, S. Seth, Y. M. Pradyumna, V. Jampani, **A. Chakraborty**, R. Venkatesh Babu, “Uncertainty-Aware Adaptation for Self-Supervised 3D Human Pose Estimation”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2022 [Core A*].
8. G. K. Nayak[†], R. Rawal[†], **A. Chakraborty**, “DAD: Data-free Adversarial Defense at Test Time”, *Winter Conference on Applications of Computer Vision (WACV)*, 2022 [Core A].
9. G. K. Nayak[†], R. Rawal[†], R. Lal[†], H. Patil, **A. Chakraborty**, “Holistic Approach to Measure Sample-level Adversarial Vulnerability and its Utility in Building Trustworthy Systems”, *Computer Vision and Pattern Recognition Workshop (CVPR-W)*, 2022.

[†] Denotes equal contribution.

10. C. Jambigi, U. Masud, **A. Chakraborty**, “G-PReDICT: Generalizable Person Re-ID using Domain Invariant Contrastive Techniques”, *Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP)*, 2022 (Oral).
11. J. N. Kundu, S. Seth, A. Jamkhandi, Y. M. Pradyumna, V. Jampani, **A. Chakraborty**, R. Venkatesh Babu, “Non-local Latent Relation Distillation for Self-Adaptive 3D Human Pose Estimation”, *Advances in Neural Information Processing Systems (NeurIPS)*, 2021 [Core A*].
12. G. K. Nayak[†], M. K. Reddy[†], **A. Chakraborty**, “Effectiveness of Arbitrary Transfer Sets for Data Free Knowledge Distillation”, *Winter Conference on Applications of Computer Vision (WACV)*, 2021 [Core A].
13. C. Jambigi[†], R. Rawal[†], **A. Chakraborty**, “MMD-ReID: A Simple but Effective Solution for Visible-Thermal Person ReID”, *British Machine Vision Conference (BMVC)*, 2021 (Oral, 3.32%) [Core A].
14. S. Seth, A. Sonth, **A. Chakraborty**, “Pose Transformation and Radial Distance Clustering for Unsupervised Person Re-identification”, *British Machine Vision Conference (BMVC)*, 2021 [Core A].
15. G. K. Nayak[†], H. Shah[†], **A. Chakraborty**, “Incremental Learning for Animal Pose Estimation using RBF k-DPP”, *British Machine Vision Conference (BMVC)*, 2021 [Core A].
16. G. K. Nayak[†], M. Keswani[†], S. Seshadri, **A. Chakraborty**, “Beyond Classification: Knowledge Distillation using Multi-Object Impressions”, *British Machine Vision Conference (BMVC)*, 2021 [Core A].
17. V. Vinod, K. Ram Prabhakar, R. Venkatesh Babu, **A. Chakraborty**, “Multi-Domain Conditional Image Translation: Translating Driving Datasets from Clear-Weather to Adverse Conditions”, *International Conference on Computer Vision Workshops (ICCV-W)*, 2021.
18. V. Kumar, S. Srivastava[†], R. Lal[†], **A. Chakraborty**, “CAFT: Class Aware Frequency Transform for Reducing Domain Gap”, *International Conference on Computer Vision Workshops (ICCV-W)*, 2021.
19. Y. Bethi, S. Narayanan, V. Rangan, **A. Chakraborty**, C. S. Thakur, “Real-Time Object Detection and Localization in Compressive Sensed Video”, *International Conference on Image Processing (ICIP)*, 2021.
20. N. Choubey, A. Verma, **A. Chakraborty**, “Automated Crowd Parameter Estimation and Crowd Movement Analysis in Kumbh Mela”, *Proceedings of the Sixth International Conference of Transportation Research Group of India (CTRG)*, 2021.
21. S. Srivastava, B. Mandal, **A. Chakraborty**, “HFCER: Hybrid Fusion for Cultural Event Recognition in Images”, *International Conference of Pattern Recognition Systems (ICPRS)*, 2021.
22. N. Choubey, A. K. Prajapati, A. Verma, **A. Chakraborty**, “Density Estimation of Heterogeneous Crowd in Mass Religious Gatherings Using Image Processing and Denoising Filter”, *Soft Computing for Problem Solving (SocProS), Advances in Intelligent Systems and Computing*, 2021.
23. A. Tripathi, R. R. Dani, A. Mishra, **A. Chakraborty**, “Sketch-Guided Object Localization in Natural Images”, *European Conference on Computer Vision (ECCV)*, 2020 (Spotlight, 5%) [Core A*].

[†] Denotes equal contribution.

24. J. N. Kundu[†], S. Seth[†], V. Jampani, R. Mugalodi, R. Venkatesh Babu, **A. Chakraborty**, “Self-Supervised 3D Human Pose Estimation Via Part Guided Novel Image Synthesis”, *IEEE Conference on Computer Vision and Pattern Recognition (CVPR)*, 2020 (Oral, 5.7%) [Core A*].
25. J. N. Kundu[†], S. Seth[†], R. M. Venkatesh[†], R. Mugalodi, R. Venkatesh Babu, **A. Chakraborty**, “Kinematic-Structure-Preserved Representation for Unsupervised 3D Human Pose Estimation”, *Conference of the American Association for Artificial Intelligence (AAAI)*, 2020 (Oral, 4.5%) [Core A*].
26. S. Addepalli, G. K. Nayak, **A. Chakraborty**, R. Venkatesh Babu, “DeGAN : Data-enriching GAN for retrieving Representative Samples from a Trained Classifier”, *Conference of the American Association for Artificial Intelligence (AAAI)*, 2020 [Core A*].
27. S. Aggarwal, R. Venkatesh Babu, **A. Chakraborty**, “Text-based Person Search via Attribute-aided Matching”, *Winter Conference on Applications of Computer Vision (WACV)*, 2020 [Core A].
28. V. Ramanathan, P. Dwivedi, B. Katabathuni, **A. Chakraborty**, C. S. Thakur, “QUICKSAL: A small and sparse visual saliency model for efficient inference in resource constrained hardware”, *Winter Conference on Applications of Computer Vision (WACV)*, 2020 [Core A].
29. S. Aggarwal, J. N. Kundu, R. Venkatesh Babu, **A. Chakraborty**, “WAMDA: Weighted Alignment of Sources for Multi-source Domain Adaptation”, *British Machine Vision Conference (BMVC)*, 2020 (Oral, 5.07%) [Core A].
30. G. K. Nayak, S. Jain, R. Venkatesh Babu, **A. Chakraborty**, “Fusion of Deep and Non-Deep Methods for Fast Super-Resolution of Satellite Images”, *IEEE International Conference on Multimedia Big Data (BigMM)*, 2020 (Oral, 19.5%).
31. A. K. Singh, A. Mishra, S. Shekhar, **A. Chakraborty**, “From Strings to Things: Knowledge-enabled VQA Model that can Read and Reason”, *International Conference on Computer Vision (ICCV)*, 2019 (Oral, 4.3%) [Core A*].
32. G. K. Nayak[†], M. K. Reddy[†], V. Shaj[†], R. Venkatesh Babu, **A. Chakraborty**, “Zero Shot Knowledge Distillation in Deep Networks”, *International Conference on Machine Learning (ICML)*, 2019 [Core A*].
33. A. Mishra, S. Shekhar, A. K. Singh, **A. Chakraborty**, “OCR-VQA: Visual Question Answering by Reading Text in Images”, *International Conference on Document Analysis and Recognition (ICDAR)*, 2019 [Core A].
34. G. K. Nayak, U. Shreemali, R. Venkatesh Babu, **A. Chakraborty**, “Efficient Person Re-identification in Videos Using Sequence Lazy Greedy Determinantal Point Process (SLGDPP)”, *International Conference on Image Processing (ICIP)*, 2019.
35. A. Pahuja[†], A. Majumder[†], **A. Chakraborty**, R. Venkatesh Babu, “Enhancing Salient Object Segmentation Through Attention”, *Computer Vision and Pattern Recognition Workshops (Deep Vision)*, pp. 27-36, 2019.
36. Navaneet, K. L., V. Todi, R. Venkatesh Babu, **A. Chakraborty**, “All for One: Frame-wise Rank Loss for Improving Video-based Person Re-identification”, *IEEE International Conference on Acoustics, Speech and Signal Processing (ICASSP)*, pp. 2472-2476, 2019 (Oral).

[†] Denotes equal contribution.

37. B. R. Pradhan, Y. Bethi, S. Narayanan, **A. Chakraborty**, C. S. Thakur, “n-HAR: A Neuromorphic Event-Based Human Activity Recognition System Using Memory Surfaces”, *IEEE International Symposium on Circuits and Systems (ISCAS)*, 2019.
38. A. Majumder, R. Venkatesh Babu, **A. Chakraborty**, “Anomaly from Motion: Unsupervised Extraction of Visual Irregularity via Motion Prediction”, *NCVPRIPG*, 2017 (Oral).
39. **A. Chakraborty**, B. Mandal, H. K. Galoogahi, “Person Re-identification Using Multiple First-Person-Views on Wearable Devices”, *Winter Conference on Applications of Computer Vision (WACV)*, 2016 [Core A].
40. T. Mahmud, M. Hasan, **A. Chakraborty**, A. K. Roy-Chowdhury, “A Poisson Process Model for Activity Forecasting”, *International Conference on Image Processing (ICIP)*, 2016.
41. A. Das[†], **A. Chakraborty**[†], A. K. Roy-Chowdhury, “Consistent Re-identification in a Camera Network”, *European Conference on Computer Vision (ECCV)*, 2014 (*Jointly first-authored) [Core A*].
42. **A. Chakraborty**, A. K. Roy-Chowdhury, “Context-Aware Activity Forecasting”, *Asian Conference on Computer Vision (ACCV)*, 2014.
43. **A. Chakraborty**, A. K. Roy-Chowdhury, “A Conditional Random Field Model For Tracking In Densely Packed Cell Structures”, *IEEE International Conference on Image Processing (ICIP)*, 2014.
44. K. Mkrtchyan, **A. Chakraborty**, A. K. Roy-Chowdhury, “Automated registration of live imaging stacks of Arabidopsis”, *International Symposium on Biomedical Imaging (ISBI)*, 2013.
45. **A. Chakraborty**, R. Yadav, G. V. Reddy, A. K. Roy-Chowdhury, “Cell Resolution 3D Reconstruction of Developing Multilayer Tissues from Sparsely Sampled Volumetric Microscopy Images”, *International Conference on Bioinformatics and Biomedicine (BIBM)*, 2011 (Oral).
46. **A. Chakraborty**, M. Liu, K. Mkrtchyan, G. V. Reddy, A. K. Roy-Chowdhury, “Cell Volume Estimation From A Sparse Collection of Noisy Confocal Image Slices”, *Indian Conference on Computer Vision, Graphics and Image Processing (ICVGIP)*, 2010.

PAPERS
CURRENTLY
UNDER REVIEW IN
CONFERENCES

1. G. K. Nayak, I. Khatri, R. Rawal, **A. Chakraborty**, “Data-free Defense of Black Box Models Against Adversarial Attacks”.
2. A. Tripathi, P. Shenoy, **A. Chakraborty**, “Dynamic Data Selection for Efficient SSL via Coarse-to-Fine Refinement”.
3. S. Joshi, A. Tripathi, V. Gopalakrishnan, **A. Chakraborty**, “Enhancing 3D Referential Grounding by Learning Coarse Spatial Relationships”.
4. P. Saraf, S. S. Mallick, L. Jagarlamudi, **A. Chakraborty**, Y. Simmhan, “Cost Optimised Placement using Adversarial Reinforcement Learning”.
5. M. Yashwanth, G. K. Nayak, A. Singh, Y. Simmhan, **A. Chakraborty**, “Adaptive Distillation for Minimizing Client Drift in Heterogeneous Federated Learning”.
6. S. Koti, R. Banerjee, G. Singh, **A. Chakraborty**, G. Gurralla, Y. Simmhan, B. Jagyasi, “Optimizing Federated Learning for Scalable Power-demand Forecasting”.

[†] Denotes equal contribution.

BOOK CHAPTERS	<ol style="list-style-type: none"> 1. K. Mkrtchyan, A. Chakraborty, M. Liu, A. Roy-Chowdhury, “Automatic Image Analysis Pipeline for Studying Growth in Arabidopsis”, <i>Video Bioinformatics</i>, vol. 22, pp. 215-236, Springer International Publishing, 2015. 2. A. Chakraborty, R. Yadav, M. Liu, M. Tataw, K. Mkrtchyan, A.K. Roy Chowdhury, G. V. Reddy, “Computational Tools For Quantitative Analysis of Cell Growth Patterns And Morphogenesis in Actively Developing Plant Stem Cell Niches”, <i>Plant Signalling Networks: Methods and Protocols</i>, 2012. 	
PATENTS AND COPYRIGHTS	<ol style="list-style-type: none"> 1. “Method and System for Recognizing Activities in Surrounding Environment for Controlling Navigation of Autonomous Vehicle”, with C. S. Thakur, B. R. Pradhan, S. Narayanan (US Patent application no. 17/377,761 filed on 16-07-2021, Indian application filed on 31-03-2021). 2. “IISc Ped Sense (IPS) - A machine learning based non intrusive crowd parameter estimation tool for Indian scenarios”, with A. Verma, N. Choubey, Certified by the Copyright Office, Government of India on 14-07-23 (Reg. No. SW-16877/2023). 	
AWARDS AND HONORS	<ul style="list-style-type: none"> • Dept. of Atomic Energy Young Scientist Research Award (BRNS, 2020 - 2022). • Associate Editor, The Visual Computer (Dec 2020 – Jan 2022). • Outstanding Reviewer Award, Computer Vision and Pattern Recognition (CVPR), 2020. • Pratiksha Trust Young Investigator Award, Indian Institute of Science (2018 - 2020). • Dean’s distinguished fellowship, UC Riverside. • ‘Tech talk award’ for best technical presentation in CEPCEB symposium, UC Riverside (Dec 2013). • IEEE BIBM travel award, 2011. • Certificate of merit for securing 35th rank among around 4,50,000 students in Higher Secondary Examination, West Bengal, India. 	
STUDENT ADVISING AND MENTORING	Ph.D. Students <ul style="list-style-type: none"> • Aritay Tripathi Aug 2018 - Present • Yashwanth M. Aug 2021 - Present • Nipun Choubey Aug 2018 - Present <i>Co-supervisor with Prof. A. Verma, IISc</i> • Sonu Sudhikumar Seena Sep 2023 - Present <i>Co-supervisor with Dr. Lin Ma, University of Manchester</i> • Gaurav K. Nayak (Graduated) Aug 2017 - Sep 2023 <i>Current: Post-doc associate, CRCV, UCF</i> M.Tech. (Research) Thesis Students <ul style="list-style-type: none"> • Gohil Rahul Pradeep Jyoti Aug 2023 - Present • Arka Haldi Aug 2023 - Present <i>(Co-supervisor: Prof. R. Venkatesh Babu, IISc)</i> • Sai Dharma Srinidhi Sheryala Aug 2023 - Present <i>(Co-supervisor: Prof. R. Venkatesh Babu, IISc)</i> • Chaitra S. Jambigi (Graduated) Aug 2019 - Jun 2023 <i>Current: Data Scientist, Flipkart</i> 	

- Vikash Kumar (Graduated) Aug 2019 - Jun 2023
Current: Research Scientist, Amazon
- Siddharth Seth (Graduated) Aug 2018 - Dec 2022
Current: Ph.D. student, UC Merced
- Shreya Roy (Graduated) Aug 2017 - Sep 2022
Current: Data Scientist, Publicis Sapient
- Surbhi Aggarwal (Graduated) Aug 2017 - Sep 2020
Current: Data and Applied Scientist 2, Microsoft

M.Tech. (Course) Dissertation Students

- Desilva Roy Aug 2023 - Present
- Bhil Nikunjibhai Babubhai Aug 2023 - Present
- Vikramaditya Mishra Aug 2022 - Present
- Batakala Ashok Aug 2022 - Present
- Supriya Mandal Aug 2021 - Jul 2023
Current: Software Engineer, Chargebee
- Sai Shankar Patro Aug 2021 - Jul 2023
Current: PGTE, Bajaj Auto Ltd.
- Shaurya Tiwari Aug 2020 - Jul 2022
Current: Senior Associate - ML, Ernst & Young
- Aditya K. Pal Aug 2019 - Jul 2021
Current: SDE-III, Walmart Global Tech
- Sunny Anand Aug 2019 - Jul 2021
(co-supervisor with Prof. Y. Simmhan, IISc)
Current: Data Scientist, ARKRAY, Inc.
- Sourav Mishra Aug 2018 - Jul 2020
Current: Subject Matter Expert, Toppr
- Utkarsh Shreemali Aug 2017 - Jul 2019
Current: Senior R&D ML Engineer, Qualcomm
- Bibrat R. Pradhan Aug 2017 - Jul 2019
Current: Data Science Engineer, Mercedes-Benz R&D
- Shivansh Srivastava Aug 2017 - Jul 2019
Current: Senior Associate, JPMorgan Chase & Co.

TEACHING EXPERIENCE

- Instructor Aug - Dec 2023
DS 215 - Introduction to Data Science
Dept. of Computational and Data Sciences
IISc Bangalore
- Instructor Aug - Dec 2022
DS 215 - Introduction to Data Science
Dept. of Computational and Data Sciences
IISc Bangalore
- Instructor Jan - Apr 2022
DS 294 - Data Analysis and Visualization
Dept. of Computational and Data Sciences
IISc Bangalore

Instructor	Aug - Dec 2021
DS 263 - Video Analytics (Co-instructor with Prof. R. Venkatesh Babu) Dept. of Computational and Data Sciences IISc Bangalore	
Instructor	Jan - Apr 2020
DS 294 - Data Analysis and Visualization Dept. of Computational and Data Sciences IISc Bangalore	
Instructor	Jan - Apr 2020
DS 265 - Deep Learning for Computer Vision (Co-instructor with Prof. R. Venkatesh Babu) Dept. of Computational and Data Sciences IISc Bangalore	
Instructor	Aug - Dec 2019
DS 263 - Video Analytics (Co-instructor with Prof. R. Venkatesh Babu) Dept. of Computational and Data Sciences IISc Bangalore	
Instructor	Jan - Apr 2018
DS 294 - Data Analysis and Visualization Dept. of Computational and Data Sciences IISc Bangalore	
Teaching Assistant	Fall 2013
EE 215 - Stochastic Processes Instructor: Prof. Ertem Tuncel Electrical Engineering, UC Riverside	

REFERENCES Available upon request.