

WORK EXPERIENCE

- **Koita Centre for Digital Health, Ashoka University**
Research Scientist February 2026 – Current
* Leading a project to curate a large-scale benchmark dataset and evaluation framework for multimodal medical conversational data to support AI in Health. As part of this role, I am based as a Visiting Researcher at Microsoft Research India in Bengaluru.
- **Huawei Technologies India Pvt. Ltd.** Bengaluru, India
Technical Project Leader March 2020 – January 2021
* Developed query optimization features for the OPENLOOKENG data virtualization engine (open-source).

EDUCATION

- **Indian Institute of Technology, Kharagpur, India** Prime Minister's Research Fellowship Awardee
Ph.D in Computer Science and Engineering [GPA: 9.7] Jan. 2021 – June 2026
- **Indian Institute of Science, Bengaluru, India** Microsoft Data Science Fellowship Awardee
Master of Technology(Research) in Computational & Data Science Aug. 2017 – Jan. 2020

PUBLICATIONS

- **A Study on Synthetic Face Generation for Underrepresented Global South Demographics**
Siddharth D Jaiswal, A Modi, L Narayana, A Mukherjee Under Submission
- **Judging by Appearances? Auditing and Intervening Vision-Language Models for Bail Prediction**
S Basu, S Prakash, AM Barge, Siddharth D Jaiswal, A Dash, S Ghosh, A Mukherjee [Arxiv]
- **Code-Mixed Phonetic Perturbations for Red-Teaming LLMs**
D Aswal, Siddharth D Jaiswal [Arxiv]
- **Fairer Datasets for Advancing Responsible AI Systems**
Siddharth D Jaiswal AAAI/ACM AIES (SP) 2025 [Proceeding]
- **Triparts: Scalable Streaming Graph Partitioning to Enhance Community Structure**
R Bhoot, T Khare, M Agarwal, Siddharth D Jaiswal, Y Simmhan VLDB 2025 [Proceeding]
- **Exploring Disparity-Accuracy Trade-offs in Face Recognition Systems: The Role of Datasets, Architectures, and Loss Functions**
Siddharth D Jaiswal, S Basu, S Sikdar, A Mukherjee AAAI ICWSM 2025 [Proceeding]
- **Breaking the Global North Stereotype: A Global South-centric Benchmark Dataset for Auditing and Mitigating Biases in Facial Recognition Systems**
Siddharth D Jaiswal, A Ganai, A Dash, S Ghosh, A Mukherjee AAAI/ACM AIES 2024 [Proceeding]
- **Uncovering Gender Biases in Human-AI Platforms**
Siddharth D Jaiswal AAAI/ACM AIES (SP) 2024 [Proceeding]
- **DENOASR: Debiasing ASRs through Selective Denoising**
AK Rai, Siddharth D Jaiswal, S Prakash, BP Sree, A Mukherjee IEEE ICKG 2024 [Proceeding]
- **A Deep Dive into the Disparity of Word Error Rates Across Thousands of NPTEL MOOC Videos**
AK Rai, Siddharth D Jaiswal, A Mukherjee AAAI ICWSM 2024 [Proceeding]
- **Auditing Gender Analyzers on Text Data**
Siddharth D Jaiswal, AK Verma, A Mukherjee IEEE/ACM ASONAM 2023 [Proceeding]
- **A History of Diversity in the Web (Conference)**
Siddharth D Jaiswal, A Mukherjee ACM WebConference (Companion) 2023 [Proceeding]
- **Marching with the Pink Parade: Evaluating Visual Search Recommendations for Non-binary Clothing Items**
Siddharth D Jaiswal, A Mukherjee ACM CHI (Case Studies) 2022 [Proceeding]
- **Two-Face: Adversarial Audit of Commercial Face Recognition Systems**
Siddharth D Jaiswal, K Duggirala, A Dash, A Mukherjee AAAI ICWSM 2022 [Proceeding]
- **Platform Governance: Past, Present and Future**
M Das, A Dash, Siddharth D Jaiswal, B Mathew, P Saha, A Mukerjee ACM GetMobile: MCC 2022 [Journal]
- **A Partition-centric Distributed Algorithm for Identifying Euler Circuits in Large Graphs**
Siddharth D Jaiswal, Yogesh Simmhan IEEE IPDPS-W 2019 [Proceeding]
- **Auditing the Grid-Based Placement of Private Label Products on E-commerce Search Result Pages**
Siddharth D Jaiswal, A Dash, N Shroff, YB Vunnam, S Ghosh, A Mukherjee [Arxiv]
- **Mask-up: Investigating Biases in Face Re-identification for Masked Faces**
Siddharth D Jaiswal, AK Verma, A Mukherjee [Arxiv]

RESEARCH INTERNSHIPS

- **Disparity-Accuracy Tradeoffs in Face Recognition Systems** L3S Research Centre, LUH, Germany
August 2023 – November 2023
 - * Large-scale audit to understand the dataset-loss-model combination that impacts accuracy and bias for binary gender classification in Face Recognition Systems.
- **Online Algorithms for Facility Location Problem** ACMU, Indian Statistical Institute, Kolkata
June 2015 – July 2015
 - * Development of an Online Algorithm for placing a new server amongst an existing configuration of servers and customers given certain constraints. A conjecture and an algorithm are suggested based on observations of some test cases.
- **Approximation Algorithms for DVRP on Trees** ACMU, Indian Statistical Institute, Kolkata
December 2014
 - * Development of an approximation bound for Distance Constrained Vehicle Routing Problem (DVRP) on Trees. Also proved that the Distance Constrained Vehicle Routing Problem on a Tree is NP Complete.

PROGRAMMING SKILLS

- **Languages:** Python, Java, C++
- **Libraries:** Scikit-learn, Numpy, Pandas, Pytorch, Matplotlib, Selenium

VISITS, FELLOWSHIPS & AWARDS

Visits

- ACM India ARCS Symposium, Coimbatore (2025)
- ACM India ARCS Symposium, Bhubaneswar (2024)
- ICPR Doctoral Consortium, India (2024) – Poster: “Audit & Mitigation of Gender Biases in Human-AI Platforms”
- ACM India Pingala Interactions in Computing, Mysore (2024)
- ECAI Doctoral Symposium, Poland (2023) – Poster: “Uncovering Biases in Face Recognition Systems”
- Mediterranean Machine Learning Summer School, Thessaloniki, Greece (2023)
- Indian Symposium on Machine Learning, IIT Bombay (2023)
- Indian Symposium on Machine Learning, IIT Gandhinagar (2022)
- Google Research Week, Bengaluru (2023)
- AI Ethics and Governance Training, The Alan Turing Institute (2022, Online)
- ACM-W Winter School on Fairness in AI (2022, Online)
- R-CCS IS, RIKEN, Kobe, Japan (2020) – Poster: “STEM: STrreaming Edge Partitioner based on Motifs”
- HiPC SRS, Jaipur (2017) – Poster: “Incremental Algorithms for PageRank and k-core on Dynamic Graphs”

Fellowships

- Prime Minister’s Research Fellowship (PMRF), Ministry of Education, Govt. of India (Jan 2022)
- Microsoft Data Science Fellowship, Microsoft India (Aug 2017)

Awards & Travel Grants

- AAAI AIES Travel Grant (2025, Madrid)
- ACM India IARCS Travel Grant, AAAI ICWSM (2025, Copenhagen)
- AAAI ICWSM Student Travel Grant (2025, Copenhagen)
- Outstanding Poster, ICPR Doctoral Consortium (2024)
- AAAI AIES Travel Grant (2024, San Jose)
- ACM India Travel Grant (PIC 2024, ARCS 2024, ARCS 2025)
- IndoML Travel Grant (2022, 2023)
- Google Research India Travel Grant (2023)
- Microsoft Research India Travel Grant, ACM Web Conference (2023)
- ACM India IARCS Travel Grant, ACM Web Conference (2023)
- IEEE TCSS Travel Grant, IPDPS (2019, Rio de Janeiro)

TALKS

- **Conference Presentations**

- “Exploring Disparity–Accuracy Trade-offs in Face Recognition Systems: The Role of Datasets, Architectures, and Loss Functions”, 19th AAAI ICWSM, Copenhagen, Denmark (2025)
- “A History of Diversity in The Web”, 32nd ACM The Web Conference (History of the Web), Austin, USA (2023)
- “Marching with the Pink Parade: Evaluating Visual Search Recommendations for Non-binary Clothing Items”, ACM CHI (Case Studies), Virtual (2022)

- **Tutorials**

- “AI & Ethics”, 10th International Conference on Pattern Recognition and Machine Intelligence (PReMI), Kolkata, India (2023)

- **Podcasts**

- “The Asimov Fallacy: Rethinking AI Ethics in a World of Inevitable Harm”, AI Truth Ethics Podcast with Alex Tsakiris (2024)
- “Identifying the Bias in Facial Recognition Technology”, Panoptic Talks with the Internet Freedom Foundation, India (2021)

TEACHING ASSISTANTSHIP DUTIES

- Dept. of CSE, IIT Kharagpur

- CS60016 – AI & Ethics (Jan–Apr 2022, Jan–Apr 2023)
- CS60092 – Information Retrieval (Aug–Nov 2024)
- CS29003 – Algorithms Lab (Aug–Nov 2021)
- CS21004 – Formal Language and Automata Theory (Jan–Apr 2024, Jan–Apr 2025)
- CS10003 – Programming and Data Structures (Nov 2022–Jan 2023)
- CS19003 – Programming and Data Structures Lab (Mar–Jun 2021)

- Dept. of CDS, IISc Bengaluru

- DS221 – Introduction to Scalable Systems (Aug–Dec 2019)

POSITIONS OF RESPONSIBILITY & SERVICE

- **Mentorship:** Mentored 6 undergraduate and 5 graduate students, resulting in multiple peer-reviewed publications
- **Reviewer:** AAAI (2026), ICWSM (2026), AIES (2024, 2025, 2026), ACM MM (2025), IJCAI (2025), CSCW (2023, 2024), WWW (2024)
- **Student Volunteer:** ACM FAccT (2021, 2022), ACM CSCW (2021, 2022), NeurIPS (2021), WWW (2022)
- **Student General Secretary,** IEEE Student Branch, Tezpur University
- **Organizer,** TEDxTezpurUniversity (April 2014)

I declare that all the information provided above is true to my knowledge. References can be provided on request.