

WORK EXPERIENCE

- **Koita Centre for Digital Health, Ashoka University** Bengaluru, India
Research Scientist February 2026 – August 2026
 - Based as a Visiting Researcher at Microsoft Research India in Bengaluru as part of my current fixed-term research role.
 - Member of an 8-person research team developing a benchmark dataset and evaluation framework for automated medical scribe systems that process physician–patient conversations and generate structured clinical documentation, including SOAP notes.
 - Conducting an in-depth literature review of existing automated medical scribe systems and qualitative, semi-structured studies to understand the current development and deployment landscape of such systems.
 - Conducting a quantitative comparative analysis of publicly available benchmark datasets, focusing on linguistic coverage, language characteristics, and conversational structure; also supervising and mentoring junior members of the research team.
- **Huawei Technologies India Pvt. Ltd.** Bengaluru, India
Technical Project Leader March 2020 – January 2021
 - As part of a 10-member engineering team, developed query optimization and data connector features for openLooKeng, an open-source distributed SQL query engine based on Apache Presto.
 - Implemented the Table Pushdown query optimization and contributed improvements to the CarbonData data connector.
 - Contributed features, documentation and bug fixes to the project’s publicly accessible source repository. [\[Github Link\]](#)

EDUCATION

- **Ph.D in Computer Science & Engineering** Indian Institute of Technology, Kharagpur, India
Prime Minister’s Research Fellowship Awardee Jan. 2021 – June 2026
Thesis: Auditing and Mitigating Biases in Face Recognition and Gender Analysis Systems
 - Evaluated performance differences in face recognition systems across demographic groups and testing conditions, and investigated data-based methods for reducing such differences.
 - Curated open-source real and synthetic diverse, globally representative face datasets to support evaluation of face recognition systems.
 - Studied the behaviour of visual search systems for clothing-related queries by binary & non-binary gender identifying individuals.
 - Evaluated and developed methods to improve the performance of text-based gender analysis systems across different forms of input.
- **M.Tech (Research) in Computational & Data Science** Indian Institute of Science, Bengaluru, India
Microsoft Data Science Fellowship Awardee Aug. 2017 – June 2020
Thesis: Streaming Partitioning and Distributed Analytics on Large Graphs
 - Developed graph partitioning methods for large streaming graphs.
 - Developed a partition-centric distributed algorithm for identifying Euler circuits in large graphs.

RESEARCH INTERNSHIPS

- **Disparity-Accuracy Tradeoffs in Face Recognition Systems** L3S Research Centre, LUH, Germany
Aug. 2023 – Nov. 2023
 - Conducted a large-scale evaluation of multiple open-source face recognition system architectures across benchmark datasets and training configurations to study the relationship between system performance and variation across groups. The resulting work was subsequently published at AAAI ICWSM 2025.
- **Online Algorithms for Facility Location Problem** ACMU, Indian Statistical Institute, Kolkata, India
June 2015 – July 2015
 - Studied algorithmic approaches to placing a new capacity-constrained server among existing customer and server locations under distance-based objectives. Developed and evaluated algorithmic approaches for the problem using computational experiments.
- **Approximation Algorithms for DVRP on Trees** ACMU, Indian Statistical Institute, Kolkata, India
Dec. 2014
 - Studied algorithmic and approximation approaches for the Distance-Constrained Vehicle Routing Problem on tree-structured networks.

PUBLICATIONS

- **Evaluating Ambient Clinical Scribes in India: The Need for Multilingual Real-World Clinical Conversation Data**
Siddharth D Jaiswal, K Shailya, A Makani, S Datta, S Sitaram, M Jain [arXiv preprint]
- **Building a Cultural Perspective on Doctor-Patient Conversations**
K Shailya, *Siddharth D Jaiswal*, A Makani, S Datta, S Sitaram, M Jain [arXiv preprint]
- **Playing Games with My Heart: An Evaluation of AI Companion Apps**
M Rauh, D Blankvoort, M Duran, C Dheoráin, H Pandit, S Enneifer, *Siddharth D Jaiswal*, A Ventresque, A Birhane [arXiv preprint]
- **Fairer Datasets for Advancing Responsible AI Systems**
Siddharth D Jaiswal AAAI/ACM AIES (SP) 2025 [Proceeding]
- **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 preprint]
- **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]
- **Phonetic Perturbations Reveal Tokenizer-Rooted Safety Gaps in LLMs**
D Aswal, *Siddharth D Jaiswal* [arXiv preprint]
- **Triparts: Scalable Streaming Graph Partitioning to Enhance Community Structure**
R Bhoot, T Khare, M Agarwal, *Siddharth D Jaiswal*, Y Simmhan VLDB 2025 [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]
- **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]
- **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 preprint]
- **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]
- **Mask-up: Investigating Biases in Face Re-identification for Masked Faces**
Siddharth D Jaiswal, AK Verma, A Mukherjee [arXiv preprint]
- **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]
- **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]
- **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]
- **A Partition-centric Distributed Algorithm for Identifying Euler Circuits in Large Graphs**
Siddharth D Jaiswal, Yogesh Simmhan IEEE IPDPS-W 2019 [Proceeding]

PROGRAMMING SKILLS

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

PROFESSIONAL VISITS, FELLOWSHIPS & AWARDS

Selected Professional and Academic Visits

- ACM India Pingala Interactions in Computing Mysore, India | 2024
- Mediterranean Machine Learning Summer School Thessaloniki, Greece | 2023
- Indian Symposium on Machine Learning Mumbai, India | 2023
- Google Research Week Bengaluru, India | 2023
- Indian Symposium on Machine Learning Gandhinagar, India | 2022
- Youth Workshop & International Symposium at Riken-CCS Kobe, Japan | 2020

Selected Fellowships & Awards

- Prime Minister's Research Fellowship (PMRF), Ministry of Education, Government of India (2022).
- Microsoft Data Science Fellowship, Microsoft India (2017).
- Outstanding Poster, ICPR Doctoral Consortium (2024).
- Recipient of competitive travel grants for academic conference participation, including grants associated with AAAI AIES, AAAI ICWSM, ACM India IARCS, IndoML, Google Research India, Microsoft Research India, and IEEE TCSS.

CONFERENCE ORAL & POSTER PRESENTATIONS

- Fairer Datasets for Advancing Responsible AI Systems AAAI/ACM AIES | Madrid, Spain | 2025 | Poster
- Exploring Disparity–Accuracy Trade-offs in Face Recognition Systems: The Role of Datasets, Architectures, and Loss Functions AAAI ICWSM | Copenhagen, Denmark | 2025 | Oral + Poster
- Audit & Mitigation of Gender Biases in Human-AI Platforms ICPR Doctoral Consortium | Kolkata, India | 2024 | Poster
- Uncovering Gender Biases in Human-AI Platforms AAAI/ACM AIES | San Jose, USA | 2024 | Poster
- Breaking the Global North Stereotype: A Global South-centric Benchmark Dataset for Auditing and Mitigating Biases in Facial Recognition Systems AAAI/ACM AIES | San Jose, USA | 2024 | Poster
- AI & Ethics PReMI | Kolkata, India | 2023 | Oral Tutorial
- Auditing Gender Analyzers on Text Data IEEE/ACM ASONAM | Kuşadası, Turkey | 2023 | Oral
- Uncovering Biases in Face Recognition Systems ECAI Doctoral Symposium | Kraków, Poland | 2023 | Poster
- A History of Diversity in the Web ACM The Web Conference | Austin, USA | 2023 | Oral
- Marching with the Pink Parade: Evaluating Visual Search Recommendations for Non-binary Clothing Items ACM CHI | Online | 2022 | Oral
- A Partition-centric Distributed Algorithm for Identifying Euler Circuits in Large Graphs IEEE HPBDC (IEEE IPDPS-W) | Rio de Janeiro, Brazil | 2019 | Oral

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)

PROFESSIONAL SERVICE

- **Mentorship:** Mentored undergraduate and graduate students in research projects at IIT Kharagpur.
- **Conference Reviewer:** AAAI, AAAI ICWSM, AAAI AIES, ACM MM, IJCAI, ACM CSCW, ACM TheWebConference