Siddharth D Jaiswal

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EDUCATION

- Indian Institute of Technology, Kharagpur, India Ph.D in Computer Science and Engineering; GPA: 9.5/10
- Indian Institute of Science, Bengaluru, India Master of Technology(Research) in Computational & Data Science

WORK EXPERIENCE

• Huawei Technologies India Pvt. Ltd., Bengaluru, Karnataka Technical Project Leader; Cloud & AI Business Line

* Developed query optimization features for the OPENLOOKENG data virtualization engine (open-source).

Completed Projects

• Ph.D Thesis	Dept. of CSE, IIT, Kharagpur
Evaluation of Bias in various Human-AI Systems against minority stakeholders	Jan. $2021 - Current$
 * Evaluation of intersectional bias in Face Recognition Systems under adversarial condit * Evaluation of bias in visual search by e-commerce platforms for non-binary clothing. * Evaluation of bias against third-party sellers on e-commerce platforms. * Evaluation of bias by text-based author gender predictors against non-binary individual 	
• M.Tech(Research) Thesis Streaming Partitioning and Distributed Analytics on Large Graphs	Dept. of CDS, IISc, Bengaluru Aug. 2017 – Jan. 2020
\ast Developed partitioning heuristics for large streaming graphs with over 130M edges us perform 9X better than the baseline strategies.	ing topological motifs which
* Developed a partition-centric distributed algorithm to identify the Eulerian circuit or edges.	a large graphs with over 500M
 Course Mini Projects Delayed Impacts of the Gender Shades Project Evaluation of Intersectional Bias across ethnicity, gender, age and other dimension APIs over multiple face image datasets. 	Dept. of CSE, IIT, Kharagpur s in commercial Face Detection
 Development of a miniature Inception network * Development, training and evaluation of accuracy for a small inception network for 	Dept. of CSE, IIT, Kharagpur r the CIFAR-10 Image dataset.
 Vertex-Centric Path Identification Algorithm * Development of a vertex-centric variant of Minimal On-Road Time Route Scheduli Graphs and implementation on Apache Giraph. 	Dept. of CDS, IISc, Bengaluru ing algorithm on Time-Dependent
Publications	
 A History of Diversity in the Web (Conference) Published at The ACM WebConference 2023 (Companion Proceedings) Marshing with the Birk Baraday Explorating Visual Search Baserman dation 	Austin, USA
• Marching with the Pink Parade: Evaluating Visual Search Recommendation Items	
Published at ACM CHI 2022 (Case Studies)	New Orleans, USA & Hybrid
• Two-Face: Adversarial Audit of Commercial Face Recognition Systems Published at AAAI ICWSM 2022	Atlanta, USA & Hybrid
• Platform Governance: Past, Present and Future Published in GetMobile: Mobile Computing and Communications 26 (1) 2022	
• A Partition-centric Distributed Algorithm for Identifying Euler Circuits in I	
Published at HPBDC 2019, co-located with IPDPS 2019	Rio de Janeiro, Brazil

Prime Minister's Research Fellowship Awardee Jan. 2021 – Current

Microsoft Data Science Fellowship Awardee

Aug. 2017 – Jan. 2020

March 2020 - January 2021

Relevant Coursework

Indian Institute of Technology

- $\circ~$ AI & Ethics
- Deep Learning
- High Performance Scientific Computing

Indian Institute of Science

- $\circ~$ Scalable Systems for Data Science
- Game Theory
- $\circ~$ Introduction to Scalable Systems

PROGRAMMING SKILLS

• Languages: Python, Java, C++

Research Internships

• Online Algorithms for Facility Location Problem

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

 December 2014
 * Development of an approximation bound for Distance Constrained Vehicle Routing Problem on trees. Also proved that the Distance Constrained Vehicle Routing Problem on a Tree is NP Complete.

Achievements and Fellowship

- Selected for the Mediterranean Machine Learning Summer School, 2023, Thessaloniki, Greece
- Attended Google Research Week by Google Research India, 2023, Bengaluru, India
- Attended the AI Ethics and Governance (Turing Commons) Training by The Alan Turing Institute, 2022, Online
- Awarded the Prime Minister's Research Fellowship (PMRF) by Ministry of Education, Govt. of India, for the duration of Doctoral Studies in December 2021 selection cycle
- Attended the 1st Greek ACM-W Chapter Winter School on Fairness in AI, 2022, Online
- Presented a poster, "STEM: STreaming Edge Partitioner based on Motifs" at the 2nd R-CCS International Symposium, 2020, RIKEN Centre for Computational Science, Kobe, Japan
- Attended the 4th R-CCS HPC Youth Workshop, 2020, RIKEN Centre for Computational Science, Kobe, Japan
- Presented a poster, "Incremental Algorithms for PageRank and k-core on Dynamic Graphs" at Student Research Symposium, HiPC 2017, Jaipur, India
- Awarded the Microsoft Data Science Fellowship 2017 by Microsoft India, for the duration of 2017-19 instituted at Dept. of CDS, IISc, Bengaluru
- Secured AIR 24 in JEST 2017

Extracurricular Activities

- Reviewer, CSCW 2023
- Teaching Assistant(Jan-Apr 2023), CS60016: AI & Ethics, Dept. of CSE, IIT, Kharagpur
- Teaching Assistant(Nov 2022-Jan 2023), CS10003: Programming and Data Structures, Dept. of CSE, IIT, Kharagpur
- Teaching Assistant(Jan-Apr 2022), CS60016: AI & Ethics, Dept. of CSE, IIT, Kharagpur
- Teaching Assistant(Aug-Nov 2021), CS29003: Algorithms Lab, Dept. of CSE, IIT, Kharagpur
- Teaching Assistant(Mar-June 2021), CS19003: Programming and Data Structures Lab, Dept. of CSE, IIT, Kharagpur
- Teaching Assistant(Aug-Dec 2019), DS221: Introduction to Scalable Systems, Dept. of CDS, IISc, Bengaluru
- Student Volunteer- ACM FAccT (2021, 2022), ACM CSCW (2021, 2022), NeurIPS 2021, WWW 2022
- Student General Secretary, IEEE Student Branch Chapter, Tezpur Central University
- Organizer of TEDxTezpurUniversity held in April, 2014.

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

Libraries: Scikit-learn, Numpy, Scipy, Pytorch, Matplotlib

ACMU, Indian Statistical Institute, Kolkata

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