

Dibyendu Mishra

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Education

Present Aug 2023	Cornell University PhD Student in Information Science Minor: Science and Technology Studies Committee: Steven J Jackson and Daniel Susser Research Areas: Algorithmic Governance, Government Digitalization, Work and Organizations	New York, USA
May 2019 Aug 2015	Ashoka University BS in Computer Science Minor: Mathematics Thesis: Verifying Individual Fairness in Linear Models <i>Graduated Magna Cum Laude</i>	Delhi NCR, India

Publications

J=Journal, C=Conference, P=Poster, I=Informal and Other Submissions, *=Equal Contribution

- [I.4] **Data Science in the Indian Public Sector**
with Rajesh Veeraraghavan
Work Under Progress
- [I.3] **Coding the State: Errors, Exceptions and Patchwork in Structuring India's Right to Work Program**
with Steven J. Jackson
Work Under Progress | Presented at SIGCIS 2025: power surge
- [I.2] **Generative Propaganda** [🔗]
with Madeleine Daepf, Robert Ness and Joyojeet Pal
Preprint
- [C.8] **Explorable Explainable AI: Improving AI Understanding for Community Health Workers in India** [🔗]
Ian René Solano Kamaiko, [Dibyendu Mishra](#), Nicki Dell, Aditya Vashistha
Proceedings of the 2024 CHI Conference on Human Factors in Computing Systems
- [P.1] **Use of Algorithms in the Public Sector: Decision Support or Control Systems?** [🔗]
Sanjana Malhotra, Harsh Nisar, [Dibyendu Mishra](#), Richa Marwah
Equity and Access in Algorithms, Mechanisms, and Optimization (EAAMO '22)
- [J.1] **Sporting the Government: Sportspersons' Engagement with Causes in India and USA on Twitter** [🔗]
[Dibyendu Mishra](#), Ronjoy Sen, Joyojeet Pal
Digital Politics in India: A Global Perspective for the Global Policy Journal
- [C.7] **Voting with the Stars: Analyzing Partisan Engagement between Celebrities and Politicians in India** [🔗]
Ramaravind Kommiya Mothilal, [Dibyendu Mishra](#), Sachita Nishal, Faisal M Lalani, Joyojeet Pal
Proceedings of the ACM Conference on Human-Computer Interaction, Volume 6, Issue CSCW1
- [C.6] **Divided We Rule: Influencer Polarization on Twitter During Political Crises in India** [🔗]
Saloni Dash*, [Dibyendu Mishra](#)*, Gazal Shekhawat, Joyojeet Pal
International Conference on Web and Social Media (ICWSM) 2022
- [C.5] **DISMISS: Database of Indian Social Media Influencers on Twitter** [🔗]
Arshia Arya*, Soham De*, [Dibyendu Mishra](#)*, Gazal Shekhawat*, Ankur Sharma, Anmol Panda, Faisal Lalani, Parantak Singh, Ramaravind Kommiya Mothilal, Rynaa Grover, Sachita Nishal, Saloni Dash, Shehla Shora, Syeda Zainab Akbar, Joyojeet Pal(* = Equal Contribution)
International Conference on Web and Social Media (ICWSM) 2022
- [C.4] **Devotees on an Astroturf: Media, Politics, and Outrage in the Suicide of a Popular FilmStar** [🔗]
Syeda Zainab Akbar, Ankur Sharma, [Dibyendu Mishra](#), Ramaravind Kommiya Mothilal, Himani Negi, Sachita Nishal, Anmol Panda, Joyojeet Pal
ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS) 2022
- [C.3] **Insights Into Incitement: A Computational Perspective of Dangerous Speech on Twitter in India** [🔗]
Saloni Dash, Rynaa Grover, Gazal Shekhawat, Sukhniidh Kaur, [Dibyendu Mishra](#), Joyojeet Pal
ACM SIGCAS Conference on Computing and Sustainable Societies (COMPASS) 2022
 **Honorable Mention for Best Paper**

- [C.2] **Virality and the Virus: Drugs and Cures on Twitter During the COVID-19 Crisis in India** [📄]
 Dibyendu Mishra, Syeda Zainab Akbar, Gazal Shekhawat, Joyojeet Pal
Proceedings of the 55th Hawaii International Conference on System Sciences (HICSS) 2022
- [I.1] **Rihanna versus Bollywood: Twitter Influencers and the Indian Farmers' Protest** [📄]
 Dibyendu Mishra, Syeda Zainab Akbar, Arshia Arya, Saloni Dash, Rynaa Grover, Joyojeet Pal
- [C.1] **NivaDuck: A Scalable Pipeline to Build a Database of Political Twitter Handles** [📄]
 Anmol Panda, A'ndre Gonawela, Sreangsu Acharyya, Dibyendu Mishra, Mugdha Mohapatra, Ramgopal Chandrasekaran, Joyojeet Pal
International Conference on Social Media and Society (SMSociety'20)

Work Experience

July 2024 May 2024	Microsoft Research <i>Research Consultant (Contract) Advisor: Dr. Madeleine Daepf</i> Researched the use of Gen-AI in news and social media during the 2024 Indian general elections through interviews with AI startups, journalists, media houses and public policy professionals Skills: User Interviews, Policy and Content Analysis, Thematic Analysis	Bengaluru, India
Aug 2023 Feb 2023	Cornell University <i>Research Consultant (Contract)</i> Researched explainability scaffolds for improving AI understanding of community health workers	Remote
Jan 2023 Sep 2021	Ministry of Rural Development, Government of India <i>Data Scientist</i> <ul style="list-style-type: none"> > Developed various ML and GIS based decision support tools for administrators across rural infrastructure, skill development and rural livelihoods programs. > Provided audit support through data analysis and policy recommendations for the ministry's projects through a distributive justice lens Skills: Python, QGIS, MySQL, PyTorch, AWS & Azure (Server-less Architecture, State Machines, ML Model Deployment, API Development & Hosting), PowerBI, User Interviews, Policy Analysis, Prototyping	New Delhi, India
Sep 2021 Mar 2020	Microsoft Research Social Media and Society <i>Research Software Engineer Advisor: Dr. Joyojeet Pal</i> Used mixed methods approaches to research political polarisation, crisis informatics and disinformation on social media in India. Focused on the role of social media influencers and celebrities in political capture Skills: Python (Sklearn, Dask, Numpy, Pandas, Matplotlib), MySQL, Gephi, Thematic Analysis	Bengaluru, India
Feb 2020 Aug 2019	Microsoft Research Technology for Emerging Markets <i>Research Intern Advisor: Dr. Joyojeet Pal</i>	Bengaluru, India
Sep 2018 Jul 2018	Koç University Distributed Systems Lab <i>Research Intern</i>	Istanbul, Turkey
Aug 2017 May 2017	Trivedi Center For Political Data <i>Data Science Intern</i> Developed entity resolution algorithms and visualizations on Indian electoral datasets Skills: R/RShiny, Selenium, Python, Plotly	Delhi NCR, India

Awards and Fellowships

- [2025] Einaudi Center International Research Travel Award, Cornell University
- [2023] Information Science Department Fellowship, Cornell University
- [2022] Best Paper Nominee, HICSS'22
- [2022] Honorable Mention For Best Paper, COMPASS'22
- [2015] Merit cum Means Scholarship, Ashoka University

Teaching

Graduate Teaching Assistant, Cornell University	2024-2025
‣ INFO-2300: Intermediate Design and Programming for the Web, Prof. Kyle Harms	
‣ INFO-2951: Introduction to Data Science with R, Prof. Benjamin Soltoff	
‣ INFO-2950: Introduction to Data Science, Prof. Matt Wilkens	
Teaching Assistant, Ashoka University	2018-2019
‣ CS-104: Discrete Mathematics, Prof. Sumit Kumar Pandey	
‣ CS-303: Introduction to Machine Learning, Prof. Ravi Kothari	

Presentations

‣ Student Presentation, <i>Special Interest Group for Computing, Information, and Society (SIGCIS): power surge</i>	2025
‣ Guest Lecture, <i>Politics and Ethics of Data</i> , Azim Premji University	2024
‣ Invited talk, <i>MISDOOM Conference</i> , Oxford Internet Institute	2021

Service

**Special Recognitions in Bold*

‣ Student Organiser, <i>Social Media and Society in India Conference</i>	2020, 2025
‣ Reviewer, CSCW'22, CHI'25 and DIS'25	2022, 2025
‣ Cornell IS Student-Applicant Reading Program (SARP)	2023, 2024
‣ Co-organiser, <i>Effective Dashboards and Self-Service Analytics Workshop for Govt. Employees</i> , MORD	2022
‣ Undergraduate Application Reading Program, <i>Swaero Circle Schools in India</i>	2021-2022
‣ Technical Interviewer for Data Scientist Positions, <i>National Highways Authority of India</i>	2022