

Ashwin

(they/them)

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Computational Social Science

Fairness in Sociotechnical Systems

ICT4D

Education

Indraprastha Institute of Information Technology Delhi (IIIT Delhi)

B.Tech. in Computer Science and Applied Mathematics

CGPA: 8.73/10

New Delhi, India

August 2017 - June 2021

Experience

Diversity, Equity and Inclusion Admin

Queer In AI

Seattle, Washington, USA [Remote]

April 2022 – Present

- Advancement leader of [Queer in AI](#), responsible for administrating DEI initiatives, drafting inclusive policies, organizing events and developing community.
- Currently working on a demographic survey to deepen understanding of issues faced by queer AI researchers and practitioners to inform relevant policies in academia and industry.

Research Associate

PreCog, IIIT Hyderabad — Advisor: Prof. Ponnurangam Kumaraguru

Hyderabad, India

July 2021 – Present

- Responsibilities involve leading research collaborations across academia and industry, writing grant proposals, and mentoring students on research projects.
- Received funding from Flipkart for a grant proposal on creating an e-commerce credibility score using publicly available information.
- Collaborated with [Digital Green](#) to diagnose their ICT for inequalities and alleviate the adoption rates of agricultural practices by farmers. [Full Paper](#) accepted at [ICTD 2022](#).
- Used mixed-methods to uncover the incorporation of dark patterns in install-incentivizing apps by developers to exploit the labor of users in building market and detect lockstep behaviors in their reviews. [Late Breaking Result](#) accepted at [ACM Hypertext 2022](#). [Blog](#) featured in the [AI Ethics Brief](#).

Undergraduate Researcher [Thesis]

Living Lab, IIIT Delhi — Advisor: Prof. Grace Eden

New Delhi, India

June 2020 – June 2021

- Conducted semi-structured interviews with college-going students to understand the transformations in their social life amidst lockdown due to the Covid-19 Pandemic.
- Generated implications for Computer-Mediated Communication Technologies in facilitating spontaneous interaction, negotiating intimacy, mutual understanding and accessibility to different social groups.
- [Short Paper](#) accepted at [INTERACT: IFIP Conference on Human-Computer Interaction](#), Bari, Italy, 2021.

Lead UX Researcher

MIDAS Lab, IIIT Delhi — Advisor: Prof. Rajiv Ratn Shah

New Delhi, India

December 2020 – June 2021

- Led the design of an AI-Based Image Retrieval System for the Delhi Police to iteratively search for suspects based on their facial characteristics.
- Advocated for fairness to the Delhi Police in order to mitigate disproportionate harm towards groups marginalised on the basis of caste and religion.

Research Intern

Vox Populi Research

Gurgaon, India

May 2019 – July 2019

- Designed and developed a desktop application using the Qt Framework on python to automate the process of retrieving geographical data. This helped speed up the project timeline by 4-6 months and reduced the expenditure by 80%.
- Generated clusters from a political data set based on statistical indicators and created visualizations to profile them to make predictions for the upcoming elections.


Publications

- Erasing Labor with Labor: Dark Patterns and Lockstep Behaviors on Google Play** Hypertext '22
Ashwin Singh, A Arun, P Malhotra, P Desur, A Jain, DH Chau, P Kumaraguru Barcelona, Spain
- Diagnosing Data from ICTs to Provide Focused Assistance in Agricultural Adoptions** ICTD '22
Ashwin Singh, M Subramanian, A Agarwal, P Priyadarshi, S Gupta, K Garimella, P Kumaraguru +5 Seattle, USA
- Hanging Out Online: Social Life During the Pandemic** INTERACT '21
Ashwin Singh, G Eden Bari, Italy
- Identifying Offensive Content in Social Media Posts** CONSTRAINT @ AAI '21
Ashwin Singh, R Ray Virtual
- Kyro: Persuading Students to be Productive Using a Virtual Companion** IndiaHCI '20
R Jain, Ashwin Singh Virtual

Achievements

- **SIGWEB Travel Grant:** Awarded travel support of \$1400 for attending ACM Hypertext 2022.
- **SIGCHI Registration Grant:** Awarded registration support of €650 for attending ACM Hypertext 2022.
- **Invited Feature, The AI Ethics Brief** (Readership: 6000+ technical leaders and policymakers worldwide).
- **Dean's List of Academics:** Awarded for demonstrating excellence in academic years 2019-20 and 2020-21.
- **Dean's Letter of Appreciation** for significant achievements in B.Tech. thesis (<2% students).

Academic Service

- Organizer** NeurIPS '22, AAAI '22, NeurIPS '21
Queer In AI Affinity Workshops
Moderated a Panel on Caste in Institutions and Tech that involved scholars and activists from backgrounds spanning Anthropology, STS, Policy, Law and Economics. ([Read Twitter Thread](#) )
- Reviewer** Queer In AI Affinity Workshops (2021-Present), INTERACT '21

Teaching

- Head Teaching Assistant** IIIT Delhi
CSE648: Privacy and Security in Online Social Media January 2021 - May 2021
Course Instructor: Prof. Ponnurangam Kumaraguru
Designed coursework including quizzes, homeworks and exams that involved collecting data from Social Media, creating Visualisations, Statistical Analysis, and Machine Learning. Led a team of eight Teaching Assistants in a Class of 250+ Junior, Senior and Graduate students.
- Teaching Assistant** IIIT Delhi
MTH201: Probability and Statistics January 2020 - May 2020
Course Instructor: Prof. Acushla Saraswat
Conducted tutorials, graded student submissions and typeset class notes in LaTeX.

Skills

- Research Methods:** Interviews, Participatory Design, Surveys, Qualitative Coding, Exploratory Data Analysis, Experiment Design, Regression Analysis, Hypothesis Testing
- Tools & Technologies:** Github, Gephi, MongoDB, Plotly, SHAP, Tweepy, Figma, Adobe XD
- Programming Languages:** python, R, JAVA
- Relevant Coursework:** Privacy and Security in Social Media[†], Anthropology of Social Media, Machine Learning, Design of Human Centered Systems[†], Affective Computing[†], Statistical Inference, Stochastic Processes and Applications, Probability and Statistics, Linear Optimization, Numerical Partial Differential Equations[†], Contemporary India: Sociological Perspective ([†] = **Graduate Level Courses**).