

Divyanshu Kumar Singh

Software Engineer
Scry Analytics

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Expertise

Research Interest: Human-Computer Interaction (HCI), Communities, Intersections, Marginality, Identity & Culture, Justice, Infrastructure, ICTs & Social Media.

Research Methods: interviews, focus-groups, ethnographic field studies, survey, thematic analysis, statistical analysis, hypothesis testing.

Education

July 2017 - **Indraprastha Institute of Information Technology Delhi (IIIT Delhi)**
July 2021 B.Tech in Computer Science and Engineering
Advisor(s): [Dr. Venkata Ratnadeep Suri](#), [Dr. Jainendra Shukla](#)
Thesis: Understanding the Digital Technology Use Amongst LGBTQ+ Adults in India for Well-Being
CGPA: 7.4

Publications

[C.1] **Kumar Singh, D.**, Sharma, S., Shukla, J., & Eden, G. (2020, March). Toy, Tutor, Peer, or Pet? Preliminary Findings from Child-Robot Interactions in a Community School. In *Companion of the 2020 ACM/IEEE International Conference on Human-Robot Interaction* (pp. 325-327). [\[PDF\]](#) [\[Video\]](#)

[W.1] **Divyanshu Kumar Singh**, Venkata Ratnadeep Suri, Jainendra Shukla. 2020. Design for the Well-Being of LGBTQIA+University Students. (Lightly Reviewed, Workshop Paper) in *From Needs to Strengths: Operationalizing an Assets-Based Design of Technology* at ACM CSCW 2020, Oct-2020. [\[PDF\]](#)

[C.2] Asra Sakeen Wani, **Divyanshu Kumar Singh**, Pushpendra Singh. "Hartal (Strike) Happens Here Everyday": Understanding Impact of Disruption on Education in Kashmir. (Conditionally Accepted to CHI 2022, Conditional Acceptance Rate: 12.5%)

[J.1] **Divyanshu Kumar Singh**, Manohar Kumar, Eduard Fosch-Villaronga, Deepa Singh, Jainendra Shukla. Ethical Considerations From Child-Robot Interaction in Under-Resourced Communities. (Under review)

[C.x]=Conference, [J.x]=Journal, [W.x]=Workshop

Research Experience/Projects

September 2020 - **Digital Technology Use Amongst LGBTQ+ Adults in India**
present Advisor(s): [Dr. Venkata Ratnadeep Suri](#), [Dr. Gopinaath Kannabiran](#),
[Dr. Jainendra Shukla](#)

- Understanding tech (mobile, social media, internet, mobile apps) use and non-use by queer adults for their well-being in India. [W.1]
- Reached out to queer collectives, conducted in-depth interviews, thematic analysis

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- Currently analysing the data. To be submitted at CSCW.

March 2021 - **Student Researcher - [Mélange Lab](#), IIIT Delhi**
present **Advisor: [Dr. Pushpendra Singh](#)**

- **Language Inclusivity in SIGCHI** (Apr'21 - present)
 - Understanding role of language in writing, presenting and accessing research articles by non-native english speakers in HCI
 - conducting survey, interviews, thematic analysis
 - Collaboration: [Dr. Sumita Sharma](#)
- **Education, Technology and Disruption in Kashmir** (Mar'21 - Sep'21)
 - Understanding impact of disruption/conflict on education access, tech use in Kashmir [C.2]
 - thematic analysis of interview, brainstorming implications
 - Collaboration: [Asra Sakeen Wani](#) (PhD Scholar, IIIT Delhi)

July 2019 - **Undergraduate Student Researcher - [Human-Machine Interaction Lab](#), IIIT Delhi**
September 2021 **Advisor: [Dr. Jainendra Shukla](#)**

- **Ethics of CRI in Under-Resourced Communities** (Oct'20 - Feb'21)
 - Understanding ethical issues arising from deploying social robots for education in under-resourced communities [J.1] {Revised & Resubmitted (September)}
 - Thematic & interaction analysis of video and interviews
 - Collaboration: [Deepa Singh](#) (PhD Scholar, Delhi University), [Dr. Manohar Kumar](#), [Dr. Eduard Fosch-Villaronga](#)
- **Social Robot for Primary Education** (Jul'19 - Jan'20)
 - 5-week Child-Robot Interaction (CRI) study for language learning tasks with Kindergarten students at a community school [C.1]
 - moderated CRI sessions, analyzed videos, interviews & field notes
 - Collaboration: [Dr. Sumita Sharma](#), [Dr. Grace Eden](#)

June 2020 - **Online Schooling During COVID Era**
September 2020 **Advisor: [Dr. Grace Eden](#)**

- Recruited students, teachers and parents from three Delhi Govt. school to understand impact of COVID on education
- Conducted in-depth interview, translation and transcription.

Work/Industry Experience

June 2021 - **Scry Analytics**
present **Software Engineer (Data Science)**

- Working in the Data Science team on flagship document digitisation product - [Collatio](#).
- Machine Learning optimisation tests, Refining pipeline logic, Incorporating new documents.
- Tech & Frameworks: Python, Docker, Bash, MongoDB, Selenium.

May 2020 - **IIIT Delhi**
July 2020 **Summer Intern (Advisor: [Dr. Anuj Grover](#))**

- Studied TRIZ (Theory of Inventive Problem Solving) in various use cases and prepared an engineering course curriculum. Individually explored a Child-Robot Interaction scenario as a problem and applied TRIZ.

March 2019 - **IIIT Delhi**

June 2019 Coordinator | Summer Camp 2019

- In 2019, 180 students from 7 different Delhi govt. school attended the summer camp.
- Designed curriculum for 'Hands on Science' module along with a team of 32 volunteers for 5 weeks of study for students of class 8 and 9; and ensuring proper execution of the camp.

Teaching Experience

Spring 2021 **Teaching Assistant, IIIT Delhi**

DES 101: Introduction to Human-Computer Interaction*

- Instructor: [Dr. Rajiv Ratn Shah](#)
- Introductory course for 282 first year undergraduates..
- Conducting & preparing weekly tutorial sessions. Mentored group of 42 students and 10 projects.
- Prepared and graded quizzes, exams and projects with rubric.

**Due to some errors by the academics department at IIIT Delhi my transcript reflects my TA credits for a different course. I have requested for a corrected transcript which will be available soon.*

Position of Responsibility

Coordinator (Head) **ASTRONUTS: Astronomy Club of IIIT Delhi (Aug'18 - July'19)**

- Conducted Sky-Observation and in-class session on Astronomy
- Organized field trip to Sariska Astroport

Professional Service

Shadow PC - Compass 2021

Peer-Reviewer (LBR) - HRI'20, CHI'21, CSCW'21, Compass'21

Sub-Reviewer - ICSR'20 Workshop (Child-Robot Interaction: Present and Future Relationships)

Volunteering

Student Volunteer - ACM HRI'20

Community Service - Volunteer for *Roshini*: Diwali Book Donation Drive 2019 for Govt. School Students in Delhi