

Divyanshu Kumar Singh

Department of Computer Science and Engineering, IIIT Delhi

Website: divyanshu-krs.github.io

Email: divyanshu17048@iiitd.ac.in

EDUCATION

- **Indraprastha Institute of Information Technology Delhi** New Delhi, India
Bachelor of Technology - Computer Science and Engineering; GPA: 7.18 (SGPA: 8.56) *Aug 2017 - Present*
Bachelor's Thesis: Understanding Social Support and Mental Well-Being Needs of LGBTQIA+ University Student's
Advisor(s): [Dr. Venkata Ratnadeep Suri](#), [Dr. Jainendra Shukla](#)

PUBLICATIONS

- **Divyanshu Kumar Singh**, Sumita Sharma, Jainendra Shukla, Grace Eden.: *"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 (Companion-HRI '20), Cambridge, UK, Mar-2020. [\[PDF\]](#) [\[Video\]](#)
- **Divyanshu Kumar Singh**, Venkata Ratnadeep Suri, Jainendra Shukla: *"Design for the Well-Being of LGBTQIA+ University Students"*, (Lightly-Peer Reviewed, Workshop Paper) in *From Needs to Strengths: Operationalizing an Assets-Based Design of Technology* at ACM CSCW'2020, Oct-2020. [\[PDF\]](#)

RESEARCH PROJECTS

- **Ethics in Child-Robot Interaction:** Studying Child-Robot Interaction in Global South, India and proposing a framework of ethics to conduct such studies. I am analyzing interaction video from our work in HRI'20, to code possible ethical issues that could emerge. (*Oct 2020 - Present*)
Team Member: Deepa Singh (PhD Scholar, Delhi University)
Advisor: [Dr. Jainendra Shukla](#), [Dr. Manohar Kumar](#)
- **Online Schooling During COVID Era:** Interview study with teachers, students and parents of different schools in Delhi including both private and government to understand how exactly is online learning playing out for them. I recruited and interviewed teachers, students and parents from Delhi govt. schools. Translated, transcribed and then coded the interview. (*Jun 2020 - Sep 2020*)
Team Member: Angel Walia (Undergrad IIIT Delhi)
Advisor: [Dr. Grace Eden](#)
- **Predicting Anxiety in Adults using EDA and HRV Signals:** Developing a Machine Learning(ML) model using both EDA& HRV signals, to predict anxiety in adults. Novelty of this works lies in the fact that there are no pre-existing model in ML which uses these two modalities to deduce anxiety and its correlation with STAI Questionnaire. (*Jan 2020 - Present*)
Team Members: Pramil Panjawani (PhD Scholar IIIT Delhi), Shubhangi Butta (Undergrad IIIT Delhi)
Advisor: [Dr. Jainendra Shukla](#), [Dr. Mrinmoy Chakraborty](#)
- **A Survey on Perception of Adults with Autism:** The aim of the project is to conduct a survey/interview to obtain the perception of adults with Autism Spectrum Disorder (ASD) in relation to the therapies and/or the interventions they received and their view and suggestions on the use of social robots for robot-assisted interventions for the cognitive well-being of the children with ASD. (*Jul 2019 - Present*)
Advisor: [Dr. Jessica Korte](#), [Dr. Jainendra Shukla](#), [Prof. Anubha Gupta](#)

WORK EXPERIENCE

- **IIIT Delhi**
Summer Research Intern — **Advisor:** [Dr. Anuj Grover](#) *May 2020 - Jul 2020*
 - 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.
- **Human-Machine Interaction Lab - IIIT Delhi**
Undergraduate Researcher — **Advisor:** [Dr. Jainendra Shukla](#) *Jul 2019 - Present*
 - Studying Human-Robot Interaction and Affective Computing (Building and Studying Machine Learning Model)
 - Worked with variety of population during user studies and conducted interaction/experiments with at least 60-70 people.
 - Research Methods: Interviews, Survey, Data Analysis(Quantitative & Qualitative), Focus-Group.
 - Developed the Lab Website - Currently Managing the website.
- **Summer Camp 2019 - IIIT Delhi**
Coordinator — **Supervisor:** [Ms. Sheetu Ahuja](#) *Feb 2019 - Jun 2019*
 - In 2019, 180 students from 7 different Delhi govt. school attended the summer camp.
 - Designed curriculum for 'Hands on Science' module along with team of volunteers for 5 weeks of study for students of class 8 and 9; and ensuring proper execution of the camp.

TEACHING EXPERIENCE

- **IIIT Delhi**
Teaching Assistant — **Introduction to Human-Computer Interaction** *Jan 2021 - Present*
 - Instructor: [Dr. Rajiv Ratn Shah](#). Introductory course for 282 first year students.
 - Conducting & preparing tutorial session. Mentoring a group of 42 students. Grading assignment & quizzes.

POSITION OF RESPONSIBILITY

- **Coordinator ASTRONUTS - Astronomy Club of IIIT Delhi**

- *Conducted Sky-Observation and in-class session on Astronomy.*

Aug 2018 - Jul 2019

PROFESSIONAL SERVICES

- **Peer-Reviewer**

- *ACM/IEEE HRI'20(LBR)*

- **Sub-Reviewer**

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

HONORS AND AWARDS

- Selected for [SIGCHI CSCW Asia Winter School 2020](#) (Dec 18-19) - Amongst 50 Student Selected from Asia-Pacific Region
- Selected for Mentor-Mentee Program at [Workshop on Interactive System in Health 2020](#) (AMIA'20): Matched with [Dr. Oliver L. Haimson](#) (Univ. of Michigan) and Awarded Scholarship to attend the conference.
- Most Innovative Project - Annual Inter Delhi Public School Science Fair
- Runner Up District Level Basketball Championship (Jhajjar, Haryana)

VOLUNTEERING

- Student Volunteer for ACM/IEEE HRI'20: Among 20 selected out of 103 applicants
- Volunteer for ***Roshini***: Diwali Book Donation Drive 2019 for Govt. School Students
- Volunteer for event *Procon Jr.* at ESYA'2017 - Annual Technical Festival of IIIT Delhi