TARINI NAIK

UX Designer - Researcher

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Google Scholar

Education

Srishti Institute of Art, Design and Technology, India

Bachelor of Design (Industrial Design Practices) - 2018 - 2022

Experience

Microsoft Research, India - Technology and Empowerment (TEM)

Advisors: *Dr. Manohar Swaminathan*, *Dr. Mohit Jain*

I lead UX research and design efforts for applications, services, and products in the domains of accessibility and healthcare. My role emphasizes ethnographic research and fieldwork to gain deep user insights. I collaborate closely with academic institutions and NGOs to drive inclusive and user-centered solutions.

RESEARCH FELLOW - July 2023 - Present

- **TaBL** - Understanding how tactile and Braille literacy can be improved in the Indian schools for the blind

- Envisioning the role of AI in accessibility - Leading a study to understand how generative AI can empower teachers with visual impairments in India
  Presented ongoing research at Empower Conference 2024

- Understanding the role of technology in the current Indian education system.
  User Study and Web Application UX-UI based on the insights
  Presented at COMPASS 2024 and at IndiaHCI 2024 in the Out of India Track

RESEARCH INTERN - August 2022 - July 2023

- **SEEDS** - A technological platform enabling teachers and students in schools for the blind to engage with educational experiences like stories, quizzes, and games. Currently piloted in 11 schools across India.
  Designing UX-UI for the application, UX for IVR system, User Study - Mixed Methods Study
  Presented at Carnegie Mellon University for Accessibility Lunch Series 2024
  Exhibited Poster at Empower Conference 2022

- **SignIt!** - A sign language based quiz platform for the Deaf and Hard of Hearing (DHH) community. It enables people to create and play quizzes in Indian Sign Language (ISL).
  Participatory Design, User study, UX-UI Design Improvements
  Presented at Empower Conference 2023

- **SmartKC** - Designing a low-cost diagnosis tool for diseases like diabetes through conjuctival imaging.
  Designing modular solution, Implementing (3D printing) and User Testing

- **Jod** - An accessible video conferencing prototype for mixed hearing groups.
  User Study - Mixed ability focus group - 15 DHH and 10 hearing participants.

Microsoft Research, India - Ludic Design for Accessibility

THESIS - Product, Service and UX-UI Design - February - May 2022

Aumigo - A service designed for autistic children and their parents to help ease the journey of managing autism.

Global Studio Collaboration - U.Mich (Ann Arbour) , National Institute of Design and Virginia Commonwealth University, Qatar

DESIGN COLLABORATION - January - April 2021

Designed a product using speculative design to manage currency based on carbon footprint generation.

Publications

2024

Experiences from Running a Voice-Based Education Platform for Children and Teachers with Visual Impairments (SEEDS)

Journal: COMPASS (ACM Journal on Computing and Sustainable Societies): Long paper

Authors: Roshni Poddar*, <u>Tarini Naik</u>*, Punnam Manikanteshwar, Kavyansh Chourasia, Pradyumna YM, Rajeswari Pandurangan, Rajesh S Paali, Nagarathna R Bhat, Bhagyashree Biradar, Vekatesh Deshpande, Devidatta Ghosh, Sudipta Ray Chaudhari, Dipanjan Chakraborty, Amit Prakash, Manohar Swaminathan

Link to the full article

Examining Factors Influencing Technology Integration in Indian Classrooms: A Teacher's Perspective
Journal: COMPASS (ACM Journal on Computing and Sustainable Societies): Long paper

Authors: <u>Tarini Naik</u>*, Meena Ellapuli Sankaranarayanan*, Manohar Swaminathan, Kalika Bali, Mohit Jain

Link to the full article

2023

SignIt! An Android Game for Sign Bilingual Play

Journal: ITU Journal: Long paper

Authors: Roshni Poddar, Pradyumna YM, Divya Prabha Jayakumar, <u>Tarini Naik</u>, Punyat Tripathi, Nabeel TP, Hemanth Reddy Yeddula, Pratyush Kumar, Mohit Jain, Manohar Swaminathan

Link to the full article

SignIt! An Android Game for Sign Bilingual Play

Journal: ASSETS (ACM SIGACCESS Conference on Computers and Accessibility): Poster

Authors: Roshni Poddar, Pradyumna YM, Divya Prabha Jayakumar, <u>Tarini Naik</u>, Punyat Tripathi, Nabeel TP, Hemanth Reddy Yeddula, Pratyush Kumar, Mohit Jain, Manohar Swaminathan

Link to the full article

Jod: Examining the Design and Implementation of a Videoconferencing Platform for Mixed Hearing Groups
Journal: ASSETS (ACM SIGACCESS Conference on Computers and Accessibility): Long Paper

Authors: Anant Mittal, Meghna Gupta, Roshni Poddar, <u>Tarini Naik</u>, SeethaLakshmi Kuppuraj, James Fogarty, Pratyush Kumar, Mohit Jain

Link to the full article

* indicates equal contribution

Achievements

Microsoft Global Hackathon *2024*

From 20,249 entries worldwide

- Hack 1: 3rd Place - Hack for Inclusion
- Hack 2: Hack 4 Equitable GenAI, People's choice award

Microsoft Global Hackathon *2022*

Stood 3rd amongst 10,019 entries worldwide in two categories:

- Hack for Society, Hack 2 Enable.

Awarded Certification of Commendation - *Srishti Institute, 2022*

Recognized for outstanding performance on the thesis project.

Skills

Research Methodologies:

User Research, Usability Testing, User Interviews, Competitive Analysis, Insight Mapping, Rapid Prototyping, Sustainable Thinking, Ethnography, Survey Design, Heuristic Evaluation, Contextual Inquiry, Journey Mapping, Data Analysis (Using Pandas and Excel)

Design Tools:

Figma, Adobe Creative Suite, Fusion 360, Rhinoceros 3D, AutoCAD, Flashprint, Cura