Sruti Bhattacharjee

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I am a graduate student in media technology at KTH Royal Institute of Technology. I have a combined skillset of user experience researcher, design researcher, and computer engineer which helps me become a potential communicator between different teams. Currently, I am interested in UX Research, Design Thinking, VR/AR, and HCI in general. Besides, I am also interested to explore strategic marketing and consultancy. I am a visual thinker and I believe in empathy for problem-solving.

Education

École Polytechnique Fédérale de Lausanne (EPFL)

MSc Exchange in Computer Science
Lab Affiliation- Immersive Interaction Group (IIG),
Computer-Human Interaction in Learning and Instruction

KTH Royal Institute of Technology

MSc in Interactive Media Technology Specialization in Visual Computing

Indian Institute of Technology Kharagpur

Bachelor Thesis at Department of Computer Science and Engineering Thesis- Counterfeit IC Detection using Image Processing Techniques

West Bengal University of Technology

BTech in Information Technology

Experience

R&D Intern, Ericsson Research, Stockholm

Effect of Latency on Haptic Perception in Haptic Teleoperation System

Designed experiment, user journey, implemented prototype for experiment, used A/B testing for data collection, reported critical analysis of the experiment design

Research Assistant, KTH Royal Institute of Technology

Research Assistant- Image annotation app development for cancer cell detection

Teaching Assistant, KTH Royal Institute of Technology

Visualization (MSc) and Python Programming (BSc)

Research Assistant, IIT Kharagpur

DeepFakeFace detection based on muscle motion and interframe difference

Research Assistant, IIT Kanpur

Musical script generation from Harmonium playing video using HandTrack and perspective transformation

Visiting Faculty, NSHM Knowledge Campus, Kolkata

Supervisor for BSc course "Computer Graphics with OpenGL and C++"

Selected Projects

Case Study: Video Call vs VR vs Teleoperation Robot in Group Communication

Designed and conducted semi-structured user Study and analysed data used mixed method to understand which platform is most suitable for independent thinking

Case Study: Emotion Perception in Realistic Face vs Avatar Facial Expression

Designed prototype for experiment and conducted structured user study and analysed data using quantitative methods

Facial Expression Detection in Virtual Reality using Machine Learning Techniques

Designed and implemented data collection prototype and collected data using structured user study, analysed model detection accuracy using quantitative methods

To Protest- Augmented City Project

Designed an app to enable sustainable protest, collaboration and artistic creation in the city Lausanne. Went through rapid design thinking, storyboarding and Wish vs Guilty analysis

Emotion Perception from Gaze Detection

Verified Shared Signal Hypothesis by computer vision methods. Developed model to detect Approach-oriented and avoidance-oriented emotions based on direct and averted gaze

Volunteer Experience

Volunteer- HackZürich, Zürich, Switzerland

Academic Team and Podcast Host- KTH Al Society, Sweden

Public Relationship Manager- SPIC MACAY, IIT Kanpur, India

Zonal Head- **TechKriti-17**, **IIT Kanpur**

Campus Representative- Abhyuday-17, IIT Bombay

Student Contributor- Mozilla Firefox, Kolkata Chapter

Accomplishments

Erasmus Plus

KTH Opportunity Fund

Swiss Programme for Erasmus Plus (SEMP)