Sruti Bhattacharjee

CONTACTS

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SKILLS
PROGRAMMING

Python	●➝ Professional
OpenCV	●➝ Advanced
OpenGL	●➝ Advanced
C ++	●➝ Intermediate
Tensorflow	●➝ Basic
Pytorch	●➝ Basic
C#	●➝ Intermediate

IT/SOFTWARE

- Matlab
- Visual Studio
- Anaconda
- Figma
- Unity
- XNMT
- Inviwo
- ROS
- OpenDetection
- UnReal
- MS Office
- OpenSmile

LANGUAGES

English	●➝ Professional
Bengali	●➝ Native
Hindi	●➝ Professional
Swedish	●➝ Elementary
French	●➝ Elementary

ACHIEVEMENTS

- Erasmus Plus
- SEMP
- KTH Opportunity 2021

VOLUNTEER EXPERIENCES

- HACK ZURICH | '21
core organizing team member
- KTH AI SOCIETY | KTH | '21
education team member
- THS ARMADA | KTH | '21
- Techkriti | IITK | '17
Campus Ambassador- guided 300+ participants
- SPIC MACAY | IITK | '19
- Abhyuday | IITB | '17
Campus Representative- public speaking about importance of education and entrepreneurship
- Mozilla Firefox | Kolkata | '16
tested add-ons and suggested designs for apps and websites

EDUCATION

EPFL | '21-'22
MSc Computer Science Exchange | Lausanne, Switzerland
LAB AFFILIATION - IMMERSIVE INTERACTION GROUP (IIG)
- Semester Project in CS- Emotion Recognition from Facial Expressions in VR
- Courses- Experience Design | Digital Humanities | Visual Intelligence

KTH ROYAL INSTITUTE OF TECHNOLOGY | '20-'22
MSc interactive Media Technology | Stockholm, Sweden
SPECIALIZATION- VISUAL COMPUTING
Courses- Human Computer Interaction | Multimodal Interaction Design | Soma Design
Interactive Computer Graphics | Deep Learning Advanced | Game Design

IIT KHARAGPUR | '17-'18
Bachelors (BTech) Thesis | Kharagpur, India
COUNTERFEIT IC DETECTION
- Masked RCNN for extraction and *pyBPDL* texture pattern analysis of IC pins
- Created a dataset of 6000 IC images followed by COCO 's architecture

WBUT (MAKAUT) | '14-'18
Bachelors of Technology (BTech) IT | Kolkata, India

EXPERIENCE

R&D SUMMER INTERN | ERICSSON RESEARCH | '21
EFFECT OF LATENCY ON HAPTIC TELEOPERATION
- Designed user journey , experiment and took lead for front end prototyping
- Reported critical analysis for the experiment design

KTH ROYAL INSTITUTE OF TECHNOLOGY | '21
- Research Assistant- Image annotation app development for cancer cells
- Teaching Assistant- Visualization | Programming Techniques

RESEARCH ASSISTANT | IIT KHARAGPUR | '20
- Interframe difference for DeepFakeFace detection based on muscle motion

RESEARCH ASSISTANT | IIT KANPUR | '19
- Musical script generation from Harmonium playing video using HandTrack and perspective transformation

VISITING FACULTY | NSHM KOLKATA | '19
- Supervisor for BSc course "Computer Graphics with OpenGL and C++"

PROJECTS

EXPERIENCE DESIGN | EPFL | '21
Protest, Digital Media and Unconscious Mind
- process and effect of protest with unconscious mind and digital media

EMPIRICAL RESEARCH | KTH | '20
Video Calls, VR & Telepresence Robots for group interactions
- Conducted user research using Zoom, VTime XR, and Furhat robot
- Mixed method study- Investigated most effective modalities for independent thinking and group interaction in remote communication

Perception of Emotional Expressions in Realistic, Cartoon-like and Schematic Virtual Face
- Studied with twelve subjects in Opensesame using KDEF and UIBVFED
- Data Analysis- Accuracy, Response Time and Average Response Time

HUMAN COMPUTER INTERACTION | KTH | '20
Online Education and Interactive Media
- Interviewed fifteen teachers from different countries
- Proposed prototype using Figma to reduce physical interaction issue

Improvement of KTH New Student Webpage
- Interviewed seven new international students from different regions
- Design Evaluation- Neilsens Heuristics and Cognitive Walkthrough methods

Online Learning and Immersive Media
- Interviewed three teachers from India and Sweden for user research
- Proposed an AR based education app design sketch after evaluation

DATA SCIENCE | EPFL | '21
Emotion Perception from Gaze
- Investigating effect of Gaze and upper facial AU on facial emotion perception

Time Machine project: Venice 2020
- Aiming to detect heights of buildings based on drone's videos