Pranav Muppirishetty

Human-Technology Interaction Researcher

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Summary	I am a Human-Technology Interaction researcher with a background in product design, biomedical and mechanical engineering, and cognitive science. I take pride in my creativity, tenacity and adaptability to solve interesting problems. My main interests include human - AI interaction, healthcare technology and psycho-physiology. I am also an amateur musician, digital artist and a photographer.			
Education	Human T	Technology Interaction, MSc	Sep 2018 - Feb 2021	
	Eindhoven University of Technology (TU/e), Eindhoven, The Netherlands Distinction: With Great Appreciation Grade: 8.0 on a scale of 10			
	Engineer Indian I Speciali Grade:	ing Design, Dual Degree, M.Tech & B.Tech Institute of Technology, Madras (IIT Madras), Chennai, India zation: Biomedical Design 8.26 on a scale of 10	Aug 2012 - July 2017	
Honors & Publications	 Patent published - 1369/CHE/2015 for a novel automatic gear transmission system. Recipient, Amandus H. Lundquist Scholarship Program(ALSP) and Holland Scholarship 2018 - awarded to students admitted in TU/e masters program with prior academic excellence. Presented a position paper on the importance of mental-health research involving technological interventions during the CUI workshop at CSCW-2020 conference. 			
Research & Professional Experience	Hybrid T Artifice S	Teacher(<i>Part-time</i>), TU Eindhoven <i>quad, Future-Everyday Group, Industrial Design Department</i>	Sep 2021 - Present	
	 Conducting workshops on design and development of Artificially intelligent conversational agents. Providing feedback and support for bachelors and masters students' projects. Skills : Prototyping, Teaching, Conversation design, Programming. 			
	Research Future-Ev	Assistant, TU Eindhoven veryday Group, Industrial Design Department	Mar 2021 - Jun 2021	
	 Investigating various interaction paradigms between chatbots and mental health of users. Designed chatbots for open-ended conversations using the boost.ai platform. Skills : Experiment design, Data Analysis, Conversation design. 			
	Masters 7 Investigat ambiguou Supervisor *Human 7	Thesis Project ting the effect on self-compassion due to multiple inter is voice user interface that provides or asks for care rs: Prof. Dr. Wijnand Ijsslesteijn*, Minha Lee (PhD)* Technology Interaction Group, TU/e	Apr 2020 - Feb 2021 actions with a gender-	
	 Investigated relationship between role of a gender-ambiguous voice assistant and its impact on perceived loneliness and self compassion. Employing the Computers Are Social Actors (CASA) paradigm to enable the participants to learn self compassion by teaching a voice assistant. Conducted the experiment single-handedly with a mixed design for 161 participants. Skills: Experiment Design, Data Analysis (STATA), Dialogflow, Python, HTML, CSS, Angular 			

Physiological Synchrony and Empathy

Supervisor: Prof. Dr. Joyce Westerink Human Technology Interaction Group, TU/e

- Investigated relationship between communicating physiological synchronization as feedback and its impact on empathy experienced by a pair of participants.
- Conducted an experiment with between subject design for **138** participants.
- Used Mobi devices to collect ECG data and calculate heart rate synchronization.
- Skills: Experiment Design, Data Analysis (STATA)

PRODUCT DESIGN Nov 2018 - Jan 2019 Boozy Brain - AI cocktail dispenser EXPERIENCE Supervisor: Dr. Emilia Barakova Assistant Professor of Socially Intelligent Systems, TU/e

- Designed and developed an intelligent cocktail dispenser that suggests a cocktail mix based on available drinks and classifies the chosen cocktail mix.
- Implemented a **Naive Bayes classifier** trained on an online cocktail recipe database.
- Skills: Machine Learning, Python, Arduino

Primal Skin

Lexus Design Awards 2017 submitted entry Mentor: Ms. Deepthi Zachariah, Principal Architect & Founder, Revolution By Design

- Designed a material that explores the concept of making emotions tangible.
- Followed the Human-centered design approach rigorously to design a material that can be employed in the domain of fashion technology.
- Developed a dynamic material that embodies emotions and responds instantaneously based on physiological signals in the body.
- Skills: Human-centered design, Material Engineering

Design Engineering Intern at Philips HIC, India

Supervisor: Mr.Shailesh Agrahari,

Director, R&D Leader Mobile Diagnostic X-Ray

- Developed a Camera based repositioning guidance system to be used with Philips mobile C-Arms.
- Designed the **UI inspired by video games** to help guide the technician in repositioning.
- Interviewed surgeons, surgical technologists and application specialists to understand the workflow and determine design parameters.
- Skills : C++, Qt (UI Design), UX Research

Virtual Percussion Gloves

a.k.a. Virtual Tabla Self Project Center for Innovation, IIT Madras

- Developed gloves to simulate hand-played membranophones.
- Programmed the system involving flex and ultrasonic sensors.
- Placed runner-up in **DAAD Science Slams** (2014) for presenting the Virtual Tabla.
- Performed as part of The Virtual Band, showcased at Shaastra's ENVISAGE (India's largest student organized Techno-Cultural show).
- Skills: Arduino, Python, PCB Design (Eagle).

Oct 2016

Dec 2015 - Jun 2016

July 2013 - Feb 2014

Art Projects & exhibits	 Expeditie Spinvis 2019 TU/e, Eindhoven, NL Contributed as a student collaborator in the Dutch musician Spinvis' search for relationship between beauty and science which led to the creation of the film 'Beauty by definition'. Performed in a live impromptu musical band alongside Spinvis that accompanied the screening of the movie. 			
	Grow, away sooner 2017 3rd place, Reciprocity fest, Kalakshetra, Chennai, India			
	 Created an artwork with a team of artists in order to voice against food wastage which secured 3rd place out of 20 contestants. The art work was entirely created out of recycled materials and plants. 			
	Good girl project2017Government school, Chennai			
	 Conducted a workshop in collaboration with artist Parvathi Nayar on Women's day in order to playfully query into the preset 'good girl' in the minds of young girl students. Developed a software tool which gives the user an experience of holding a wireless paint brush and lets them paint on a big screen. This workshop was sponsored by the US Embassy. 			
Language skills	• English (Fluent), Telugu (Native), Hindi (Fluent), Dutch (Basic) and Japanese (Basic).			
References	 Prof. Dr. Joyce Westerink Principal Scientist at Philips Research Chair of Wellbeing & Psychophysiology, Human-Technology Interaction Group, Eindhoven University of Technology (TU/e). j.h.d.m.westerink@tue.nl, +31 40 247 8559 Prof. Dr. Wijnand Ijsslesteijn Scientific Director, Center for Humans and Technology Human-Technology Interaction Group, Eindhoven University of Technology (TU/e). w.a.ijsselsteijn@tue.nl, +31 40 247 4455 Asst. Prof. Dr. Minha Lee Future Everyday group, Industrial Design department, Eindhoven University of Technology (TU/e). m.lee@tue.nl 			