

# Tanishq Ahire

Human-Centered AI & HCI Researcher · Human Factors Engineer

✉ tanishq.ahire@student.uni-siegen.de (+49) 015144935581  
📍 Holsterhauser Str. 34, 45147 Essen, Germany 🌐 www.tanishqahire.com  
🌐 linkedin.com/in/tanishqahire

## MASTER THESIS

### Master Thesis

Feb 2026

German Aerospace Center (DLR) & Universität Siegen  
Cologne & Siegen, Germany

"Designing and Evaluating a Conversational ELN Interaction Concept under Simulated AI Conditions: A Wizard-of-Oz Study in Scientific Research Contexts"

➤ Conducted in collaboration between DLR Institut für Softwaretechnologie and the University of Siegen

## EXPERIENCE

### Research Assistant

Jun 2024 — Present

German Aerospace Center (DLR) — Institut für Softwaretechnologie  
Cologne, Germany · Human Factors for Software Engineering Group

#### ADVICE - ADVANCED METHODS FOR VIRTUAL CERTIFICATION

- Designing a dashboard for uncertainty visualisation following a UCD process and Tamara Munzner's data visualisation design guidelines
- Conducting iterative design and evaluation cycles to support decision-making under uncertainty in advisory cockpit systems

#### MODA - MODELS & DATA FOR FUTURE MOBILITY

- Designed and evaluated the Travel Experience API (TEapi) interface, applying UCD principles and Munzner's visualisation framework for complex mobility data
- Developed an emissions-related dashboard: conducted heuristic evaluation, designed the user interface, information visualisation, and interaction patterns to support data-driven decision-making
- Supported structured documentation to enhance user adoption across both platform iterations

#### KADI4MAT - ELECTRONIC LABORATORY NOTEBOOK (ELN)

- Led the UX design of the Kadi4Mat mobile app, extending the ELN platform to mobile environments with a focus on human-centred digitalisation of lab workflows
- Conducted UCD workshops with developers, researchers, and end-users within a Research Software Engineering context, surfacing requirements, pain points, and GUI challenges
- Integrated AI-supported concepts into laboratory documentation workflows; supported community meetings and prepared onboarding documentation

### Internship Research Assistant

Mar 2024 — May 2024

German Aerospace Center (DLR) — Institut für Softwaretechnologie  
Cologne, Germany

#### VAST - VERSATILE AEROMECHANICS SIMULATION PLATFORM

- Functioned as Human Factors Engineer evaluating safety-critical aerospace simulation software with Airbus end-users
- Conducted task analysis, user interviews, and workflow evaluations to identify human-system interaction issues
- Translated complex user problems into clear, actionable requirements for software developers

### UI / UX Developer

Dec 2022 — Apr 2023

The Pioneers Solutions  
Cairo, Egypt

- Delivered iterative prototypes for financial dashboards, payment interfaces, and ERP modules incorporating usability testing results
- Designed FinTech payment applications for mobile and POS devices — You-pay and SataPay
- Applied cross-cultural UX principles; contributed to front-end development using HTML, CSS, and JavaScript
- Assisted QA with automated testing in Python and conducted manual test cases

## EDUCATION

### MSc Human-Computer Interaction

Oct 2023 — Present

Universität Siegen  
Siegen, Germany

### Postgraduate Diploma — UX Design

Sep 2021 — Oct 2022

Sardar Patel Institute of Technology (SPIT)  
Mumbai, India

### Bachelor of Media Communication Studies

Jun 2018 — Aug 2021

University of Mumbai  
Mumbai, India · Major in Design

### Bachelor of Science — Digital Media Studies

Class of 2017

State University of New York, Plattsburgh  
Plattsburgh, NY, USA

Minor: Computer Science

## SKILLS

### RESEARCH & METHODS

UX Research Usability Testing Mixed Methods Human Factors Task Analysis User Interviews CSCL / CSCW Research Writing

### DESIGN & PROTOTYPING

Interaction Design Wireframing Prototyping Figma / Adobe XD Axure RP Balsamiq InVision / Zeplin VR / AR Prototyping

### TECHNICAL & ANALYTICAL

HTML / CSS / JS Python MAXQDA SPSS LaTeX AI-enabled Systems Adobe Photoshop / Illustrator

## PUBLICATIONS

### Privacy Concerns in Document Sharing: A Study on Indian Photocopy Shops and Cyber Centers

ISSN: 2582-3930 · Vol. 07, Issue VIII · August 2023

### Potential of UX in Non-Invasive Continuous Glucose Monitoring (CGM) Systems

ISSN: 2321-9653 · Vol. 10, Issue VII · July 2022

### Use of Digital Health ID Cards in India

ISSN: 2320-2882 · Vol. 9, Issue 8 · August 2021

## LANGUAGES

English	Native
Hindi	Native
Marathi	Native
German	A2 → B1

## CERTIFICATIONS

<b>Design Thinking: The Beginner's Guide</b> Interaction Design Foundation · May 2021
<b>User Experience: The Beginner's Guide</b> Interaction Design Foundation · May 2021
<b>Mobile User Experience (UX) Design</b> Interaction Design Foundation · May 2021
<b>UI Design Patterns for Successful Software</b> Interaction Design Foundation · Aug 2021