

# Yavnika Miglani

Human Factors Engineer

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## SKILLS

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### Core Competencies

Human Factors Engineering; DIN EN ISO 14971 (Risk Management) DIN EN 62366-1 (Usability Engineering); Automotive driving studies; Automotive Lighting Research; Human-Centered Systems Design; Cognitive Task Analysis (CTA); Task & Workflow Analysis; Human Error & Risk Analysis (FMEA, HAZOP); Safety-Critical Systems Evaluation; Usability Engineering; Workload Assessment; Human Performance Evaluation; Experimental Design & Controlled Studies; Mixed-Methods Research; Advanced Quantitative Data Analysis; Multivariate Statistical Modeling; Regression & Factor Analysis; Hypothesis Testing & Inferential Statistics; Psychometrics & Survey Validation; A/B Testing & Experimentation; Biometric Data Collection & Evaluation; Multimodal Data Integration (Behavioral + Biometric + Self-Report); Cognitive Load & Decision-Making Analysis; Human-Computer Interaction (HCI) Principles; Mental Models Mapping; Accessibility & Inclusive Design (WCAG); Stakeholder Collaboration in Cross-Functional Engineering Teams.

### Technical, Design & Analytical Tools

R Programming; Statistical Analysis (SPSS, JASP); Data Analysis & Visualization; Google Analytics; Useberry; Eye-Tracking, Biometric Data Evaluation(ECG); Microsoft Office Suite; Figma; Framer; Miro; Jira; Notion; Canva.

## EXPERIENCE

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### Human Factors Researcher

10/2025 - Present

Forvia Hella (L-LAB) | Lippstadt, Germany

- Conducted an extensive literature review of 25+ peer-reviewed papers and technical literature to identify research gaps in driver physiological responses and inform experimental design.
- Co-designed a real-world driving study evaluating cardiac responses to headlight distribution systems (UNECE R123, UNECE R149 compliance).
- Identified six safety-critical driving scenarios and mapped the experimental route.
- Designed the experimental protocol by selecting key independent and dependent variables, and standardized questionnaires to assess driver fatigue, trust, and anxiety.
- Developed R pipelines for data cleaning, preprocessing, and statistical analysis using linear mixed-effects models to evaluate within- and between-subject effects.
- Leading execution and statistical analysis of the study as part of Master's thesis research (Jan–May 2026).

### UX Designer -Working Student

07/2024 - 11/2024

Checkmk GmbH | Munich, Germany

- Enhanced design system accessibility by auditing and optimizing color choices across light and dark modes, ensuring improved readability and compliance with accessibility standards. (WCAG)
- Established standardized UX review processes by creating comprehensive review templates and conducting systematic UX audits to facilitate consistent feedback and design improvements.
- Designed custom UI components and illustrations creating engaging user interfaces that enhanced overall product experience and visual consistency.
- Conducted user research with 76+ participants utilizing Useberry platform to gather insights on synthetic monitoring usage patterns for SaaS product optimization.
- Analyzed user feedback and compiled actionable reports transforming survey data into comprehensive reports with visualizations, metrics, and strategic recommendations for product development.
- Streamlined design workflows by developing UX documentation templates in Excel, improving cross-team collaboration and internal process efficiency.

## Sr. Behaviour Analyst

10/2022 - 10/2023

Autism Centre for Excellence | Gurugram, India

- Supervised and mentored team of 5 behavior analysts providing clinical oversight for diverse case management portfolios while collaborating on individualized educational program development to ensure optimal client outcomes.
- Designed and delivered staff development initiatives creating structured onboarding processes and ongoing training modules for new team members, establishing competency benchmarks and professional development pathways.
- Drove team performance through strategic leadership facilitating team-building initiatives and implementing quarterly goal setting frameworks that enhanced team cohesion and measurable achievement of departmental milestones.
- Established robust quality management systems by conducting systematic monthly audits of clinical documentation and data entry protocols within ACE 4.0 platform, maintaining 100% compliance with organizational standards and regulatory requirements.

## Behaviour Analyst

01/2020 - 09/2022

Autism Centre for Excellence | Gurugram, India

- Led structured behavioral research and intervention programs for 3 primary cases while supporting 5+ concurrent users, applying systematic observation and performance measurement methodologies.
- Delivered Applied Behavior Analysis (ABA) therapy using individualized treatment plans, incorporating task analysis(TA), discrete trial training (DTT), incidental teaching (IT), and behavior reduction strategies.
- Established measurable baselines using validated assessment tools (CSA, VB-MAPP) and longitudinal data tracking to assess behavioral change and system effectiveness.
- Designed data-driven Individualized Education Programs (IEPs) with targeted 1-year objectives and structured skill acquisition programs tailored to each client.
- Analyzed quantitative and observational data to identify performance trends, inform iterative modifications, and optimize intervention design.
- Produced structured analytical reports synthesizing findings for cross-functional stakeholders, supporting data-informed decision-making.

## Intern - Clinical Psychologist

07/2019 - 08/2019

Institute of Human behaviour and Allied Sciences | Delhi, India

## EDUCATION

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### M.Sc Usability Engineering

2023 - 2026

Hochschule Rhein-Waal - Kamp- Lintfort, Germany

### M.Sc Psychology

2017 - 2019

Guru Jambheshwar University of Science and Technology, Haryana, India

## LANGUAGES

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English - Fluent

Hindi - Native

German - Basic