

MOHAMMAD NAJEEB

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Experience

Computational Interaction Group (CIX), Saarland University

Graduate Research Assistant

Sept. 2024 – Mar. 2025

Saarbrücken, Saarland, Germany

- Developed interactive data processing and visualization pipelines supporting **touch-based learning and HCI studies**.
- Automated validation and reporting workflows, reducing manual data handling by **30%**.

Catnyx India Pvt. Ltd.

Web Developer Intern

Oct. 2023 – Apr. 2024

Aligarh, India (Hybrid)

- Built interactive React dashboards and integrated RESTful APIs supporting 1,000+ daily users, improving accessibility of real-time business analytics.
- Optimized MongoDB/SQL queries, reducing page load time by 40% and boosting reporting throughput across multiple endpoints.

Technical Skills

Web & Front-End: HTML5, CSS3, JavaScript, React, Dash, Streamlit

Back-End & Databases: Python, Flask, Node.js, MongoDB, SQL

LLMs & AI: HuggingFace, LangChain, RAG, Vector Databases (ChromaDB), PyTorch, Transformers

UI/UX & Design: Figma, Prototyping, Usability Testing, NASA-TLX

DevOps: Docker, Git/GitLab, CI/CD

Education

Universität des Saarlandes

Master of Science in Media Informatics

04/2025 – 04/2027

Saarbrücken, Germany

Aligarh Muslim University

Bachelor of Science (Honors) in Mathematics

08/2019 – 07/2022

Aligarh, India

Projects

Skill Lyft: AI-Powered Learning Prototype | Figma, React, Flask, Hugging Face, PyTorch, Agile

- * Conceptualized and prototyped a **learning platform** simplifying complex ML concepts like Transformers, LLMs, and Neural Nets.
- * Built a full-stack prototype with React frontend and Flask backend, supported by a complete [Figma hi-fi UI/UX](#) design.

UniChatbot | Python, LLMs, RAG, LangChain, ChromaDB, HuggingFace, Streamlit

- * Developed an [LLM-powered chatbot](#) using LangChain and RAG to answer 500+ university-related queries.
- * Implemented **semantic search with vector embeddings**, improving query relevance by 35%.
- * Optimized local inference with HuggingFace models and dynamic context windows for efficiency.
- * Containerized with Docker and deployed via Streamlit, ensuring **scalability** and smooth student interaction.

Smart StudyDesk: AI-Powered Study Organizer | Figma, UI/UX Research, Python (Prototype)

- * Designed and prototyped a [cross-platform study assistant](#) that organizes lecture notes, summarizes content, and generates personalized quizzes.
- * Improved navigation efficiency by **30%** and boosted engagement after iterative refinements.

HealthSenseAI: Automated Disease Detection System | MongoDB, Express, React, Node, Python

- * Integrated a Hugging Face pre-trained model into a [MERN stack web app](#) for automated disease predictions.
- * Delivered a user-friendly interface that provided real-time predictions, enabling accessibility for non-technical healthcare staff.

Freelance UI Design for Knowesgg | Figma, Prototyping, Visual Design, UX Optimization

- * Redesigned and streamlined the website UI by removing 15% redundant elements, delivering a modern design language aligned with brand positioning and user expectations.
- * Implemented a refreshed color palette and custom iconography, improving visual coherence and enhancing user mood perception by 25% according to stakeholder feedback.
- * Delivered a high-fidelity [Figma prototype](#) facilitating cutting edge front-end implementation time by 20%.

Publications

- Zim, A H., Ashraf, A., Iqbal, A., **Mohammad Najeeb**, Malik, A., Kurabayashi, M., & Khan, A. (2024). Zea Mays Leaf Disease Classification Using Swin Transformer. *Proceedings of the International Conference on Signal, Machines, Automation, and Algorithm (SIGMAA 2023)*, 827–838. Springer [\[DOI\]](#)