

**Usman Khan**

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**Prof. Ingmar Weber**

Chair for Societal Computing

Saarland University

Saarbrücken, Germany

**Dear Prof. Weber,**

I am excited to apply for the Student Research Assistant position. With my strong foundation in programming, machine learning, and data analysis, as well as a demonstrated ability to apply technical skills to real-world challenges, I am eager to contribute to your pioneering research.

**Relevant Experience and Skills**

- **Technical Proficiency and Projects:** Through projects like *Fitness-Tracker-ML*, where I processed sensor data to track exercises, and *SkimLit*, where I built a deep learning model to improve research paper readability, I have honed my skills in Python, data processing, and machine learning.
- **Hackathon Success:** Leading my team to victory in a recent hackathon, we built an application using a fine-tuned YOLO v11 model and the Google Gemini API to analyze construction blueprints and extract actionable data. This experience sharpened my problem-solving abilities and demonstrated my capability to deliver impactful solutions under pressure.
- **Data Analysis and APIs:** My experience includes working with APIs, large datasets, and tools like Numpy and Pandas to analyze data and derive meaningful insights—skills critical to projects.

### **Why I Am the Best Fit:**

I am confident that my unique combination of technical expertise, adaptability, and strong interpersonal skills makes me the ideal candidate for this role. What sets me apart is my ability to combine computational methods with real-life challenges, demonstrated through tools I developed, such as **Finsight**, enabling dynamic question-answering from academic websites, and **YouTube Sentiment Analysis**, which evaluates public sentiment using machine learning models. Having lived in Africa, the Middle East, and Asia, and being multilingual, I thrive in diverse environments and excel at building effective collaborations with teams and stakeholders. My proactive approach to learning, combined with my ability to work independently and deliver results under pressure, ensures I can solve complex problems effectively. You should hire me because I bring not only the technical expertise and adaptability required but also a genuine passion for creating meaningful societal impact through innovative solutions.

### **Enthusiasm for the Role**

I am particularly excited about the opportunity to work with your team to tackle impactful projects using data science and computational tools. Your leadership in this interdisciplinary field and the mission of the Interdisciplinary Institute for Societal Computing inspire me to contribute my skills to advance research that benefits society.

Thank you for considering my application. I have attached my CV and supporting documents for your review. I look forward to the opportunity to contribute to the meaningful work at the Chair for Societal Computing.

**Best regards,**

Usman Khan