**Statement of aim**

The chance to apply for the **Master's program in Embedded Systems at Saarland University** makes me quite happy. My name is **Mitali Das**, a recent graduate with a **7.68 CGPA** from Tezpur University, Assam, India, having earned a **Bachelor of Technology in Electronics and Communication Engineering.** I studied Basic Electronics, Analog Electronic Devices and Circuits, Instrumentation, Device Modeling and Simulation, VLSI Design, Image Processing, and Fiber Optic Communication during my undergraduate degree. These disciplines have given me a solid basis and motivated me to investigate Embedded Systems even more.

My academic path has been defined by a commitment to both theoretical understanding and useful applications. Projects include **Home Automation and Password Protected Door Lock system**s have been finished satisfactorily. The Home Automation project greatly enhanced user convenience and energy economy by creating an integrated system that permitted remote control and monitoring of household equipment. Aiming at improving home security with microcontroller technology, the Password Protected Door Lock project these projects confirmed my passion in embedded systems and let me experience their actual influence.

Apart from my intellectual success, I have acquired useful professional experience. Currently employed as an **Analyst at Deloitte Consulting India Private Limited in Bengaluru,** I set and maintain Oracle database management systems, run health checks, track database performance, maximize query efficiency, troubleshoot and fix database-related problems, and guarantee data integrity by means of backup and restoration procedures. Before this, I helped to timelyly resolve database-related problems by working as a **Graduate Trainee at BIAS InfoTech Private Limited in Karnataka**, where I assisted in routine database maintenance activities, monitored database performance, prepared performance and security reports, and so helped.

By means of several online courses and certifications, I have also worked to enhance my technological skills. The Ministry of MSME sponsored a training on **embedded systems at the Central Tool Room & Training Centre**. I have also improved my knowledge of Linux-based operating systems, Oracle Cloud Infrastructure, and Oracle Databases in addition to my programming language skills Python, C++, C, and MATLAB. With individual scores of 8.5 in Listening, 7.0 in Reading, 7.0 in Speaking, and 6.5 in Writing, I scored **7.5 overall on the IELTS** test in September 2023.

**Choosing Saarland University for my Master's degree was motivated by a number of considerations.** In the QS World University Rankings 2025, Saarland University ranks between # 601–610 by Subject, it ranks # 201–250. It is quite inspiring that the institution gives research—especially in the field of computer science—such great priority. Renowned research institutes like the German Research Center for Artificial Intelligence and the Max Planck Institute for Informatics give students unusual chances to engage in innovative research initiatives. The university appeals even more with its active campus life featuring many cultural events, clubs, and organizations. Further supporting my choice are friends who have attended Saarland University and related their great experiences.

**Germany's outstanding educational system, great focus on research and invention, and close business contacts have convinced me to study there.** German colleges are well-known for their exacting academic standards and high caliber instruction. Pursuing a Master's degree in Embedded Systems in Germany has several benefits, including exposure to a varied and multicultural environment, access to state-of-the-art facilities, and chances to work with top professionals in the industry. The nation's emphasis on Industry 4.0 and IoT implies that individuals with knowledge in these fields are highly sought for, which exactly fits my career objectives. Moreover, Germany's great cultural legacy and high quality of living make it the perfect place for my further study.

**The Master's degree in Embedded Systems appealed to me because of its extensive curriculum, which closes the hardware and software gap a necessary step toward creating contemporary, dependable embedded systems**. This curriculum guarantees that I am ready to meet challenging tasks in this fast developing sector by providing a thorough awareness of both the theoretical basis and useful applications of embedded systems. Mastery of sophisticated microcontroller architectures, real-time operating systems, and embedded software design among other study opportunities fits exactly with my professional goals. Completing this program will help me to become more knowledgeable in building and executing embedded solutions across many sectors, so improving my capacity to support creative ideas and developing technology.

**After finishing the Master's program**, I want to work in embedded systems with an eye toward IoT technologies. In positions like Embedded Systems Engineer, IoT Developer, or Systems Architect, where I may help to create creative ideas enhancing daily life, Working in Germany particularly interests me since the nation provides great post-graduation prospects, including a robust employment market for Embedded Systems engineers and a Post-Study Work visa allowing overseas graduates to acquire worthwhile work experience.

**Ultimately,** I am sure that Saarland University's Master's program in Embedded Systems will equip me with the knowledge, abilities, and real-world experience required to succeed in this exciting and fast expanding discipline. The institution is the perfect destination for me to finish my higher education because of its great research concentration, modern infrastructure, and active campus life. Taking full use of the chances the institution presents and adding to the academic community excites me. I look forward the prospect of attending Saarland University and hope my application is accepted.

**I value your giving my application some thought.**

**Minali Das**