Declaration of Intent

Referring to my application for the **Master of Science Program in Computer Science at TU Clausthal**, my name **is Danush, Sathish Kumar** and I am writing this statement of intent. I think that computer science has evolved into a necessary component of our life influencing many spheres like government activities, educational systems, companies, and personal residences. People have always looked for effective answers to difficult challenges throughout history; it's amazing to observe how this discipline has changed our way of life. Its transforming ability and aptitude to change our planet enchant me, hence I desire to work in this advancing profession.

With an emphasis on artificial intelligence, data science, and software systems engineering, this curriculum will help me to fully grasp computer science by means of lectures, exercises, and laboratory work. This curriculum will also include Visual and Interactive Computing, Secure and Cooperative Information Systems, and Big Data Technologies, therefore broadening my knowledge of modern computing approaches. In order to keep current on the most recent research and field advancements, I will also become competent in several advanced courses and seminars. Particularly interesting are the chances to work on a Master's thesis and a one-semester research project since they equip students for possible doctorate studies and practical applications.

With regard to my academic background, I finished my Higher Secondary Course (12th Class) with **78.6%** in July 2020 after finishing my Secondary School Leaving Certificate (10th Class) with **88%** in March 2018. After that, I studied **Computer Science and Engineering** at Anna University in Chennai, India, earning a **CGPA of 8.92** in July 2024. My undergraduate studies concentrated on courses including Programming for Problem Solving, Environmental Science and Engineering, Database Management Systems, Design and Analysis of Algorithms, Machine Learning Techniques, Cybersecurity, and Ethical Hacking.

Working on a Bachelor's project called **"Confidentiality of Identity of Harassed Woman,"** I developed a safe system employing anonymous reporting and advanced encryption, therefore strengthening my knowledge of hardware and software components. Regarding language ability, I scored generally on the **IELTS around 6.5 (B2 level).** Through an **internship in Chennai at Conveyor Solution India Pvt Ltd.,** I acquired real-world expertise during my academic path. This internship let me apply my technical skills in practical contexts and gave me insightful analysis of the business world. From Great Learning Academy, I also effectively finished a few online courses **like "Probability for Data Science," "Front End Development - CSS," "Front End Development - HTML," and "Python for Machine Learning."** These encounters have given me a strong basis in both theoretical and pragmatic sides of computer science.

**Germany is a sign of technological brilliance hence I wish to study there.** The German educational system is well-known for its dynamic and progressive learning environment as well as for its pragmatic, work-integrated approach. I would wish to profit from both. Germany's cosmopolitan society, which combines numerous civilizations, experiences, ideas, and customs, appeals to me. One of the lowest crime rates in the world, I wish to study in a nation that welcomes international students. German institutions stress the need of learning the ideas thoroughly instead than memorizing theories. Germany appeals to me because of its world-class education system, which has kept high standards for many years.

**Having chosen Germany as my study location, I then chose to apply to TU Clausthal.** TU Clausthal offers the tools and confidence students need to succeed in their studies and selected careers, so I want to study there. Its academic offerings, which are meant to equip qualified applicants for the competitive employment scene of today, really excite me. The wide curriculum of the instit ution guarantees that students are adequately ready for their future professions since it is properly related to the business. The small student population of about 3,400 also appeals to me since it fosters a more intimate and friendly environment that facilitates the development of ties with teachers as well as with other students. The large foreign student community present enhances the educational process even more.

**A Master's degree from TU Clausthal will provide me many personal and professional advantages, hence I wish to pursue it.** The international aspect of the curriculum will allow me to engage with individuals from many cultural backgrounds, therefore enh ancing my educational process. The program's research-oriented character fits exactly my academic interests and professional goals. Working on a research project in the third semester appeals especially to me since it would equip me for possible doctorate studies and a job in academia or research. Moreover appealing for study is Clausthal because of its inexpensive living expenses and great ratio of supervision.

My first intention is to work as a **Software Developer or IT Security Specialist** once my program is over. Getting a degree from TU Clausthal will equip me for a successful job at elite companies, in my opinion. I want to work in Germany since the great demand for IT experts offers great chances for professional development from the strong economy. This degree will provide me with technical knowledge and practical experience that will make me a competitive candidate in the employment market; the varied cultural exposure will assist me to grow from a narrow viewpoint.

I value your giving my application some thought. I am keen to develop personally and help the TU Clausthal community. From your end, I should expect a favorable answer.

Danush, Sathish Kumar