

## LETTER OF MOTIVATION

There is hardly any field where science of Data science has not made its presence felt. Mastering the skill of analyzing and comprehending massive volumes of data can enhance decision-making, resulting in the execution of creative strategies for achieving successful results. I find the field of **Data Science** quite fascinating for it effectively blends technological expertise with human logic. I felt the need for concrete knowledge in this field which became my prime motivation to pursue my higher education in **MSc program for Data Science at Technical University Dortmund**. With this program, I aspire to learn the best tools of analytics and imbibe necessary skills that are required for effective utilization of data. My objective is to start a new career in my country as a Data Scientist or Data Analyst with best figures. The tech industry in India is flourishing, and major companies tend to value candidates who have received advanced education from prestigious universities. In the coming years, I aim to challenge myself further by keeping up-to-date and working closely with technology.

Regarding my academic qualifications, I am currently pursuing a **Bachelor of Technology in Computer Science & Engineering at Guru Gobind Singh Indraprastha University** in Delhi. I have achieved a **CGPA of 8.87 (German Grade - 1.57)** as of my 7th semester. Additionally, I worked on "**American Sign Language Recognition using Deep Learning**" for my Bachelor's project. It aimed to enhance communication for individuals with speech or hearing impairments, like those who are mute or deaf. Along with this, I **interned at HCL Eductech in Rohtak as a Programmer**, focusing on Java projects and code optimization. Afterwards, I **interned at Codsoft** in India, specializing in Web Development and achieving improvements in audience engagement and booking processing time. Additionally, I **worked at Internxt Technologies Pvt Ltd.** in Delhi as a **Full Stack Developer and HR**, where I engineered scalable website solutions to enhance user engagement and reduce downtime.

Along with my academics I've completed various technical certifications, including "**Data Science Job Simulation**" and "**Developer and Technology Job Simulation**" from Forage, "**Cybersecurity Job Simulation**" from Forage, "**Agile Methodology Virtual Experience Program**" from Forage, "**The Complete 2023 Web Development Bootcamp**" from Udemy, and "**Data Science Foundations**" from Great Learning Academy. For international studies, English language proficiency is a primary prerequisite. I took the IELTS Examination and achieved an overall score of **7.0 (CEFR C1)**. Apart from this, I volunteered at **PATH SOCIETY HARYANA**, focusing on communication strategy, teaching, and food distribution. I am also proficient in Java, HTML, CSS, JavaScript, SQL, TypeScript, with experience in web technologies like React.js, Node.js, Redux Toolkit, and API integration. I've studied Data Structures, Algorithms, Data Science, and NLP during college coursework.

In the **MSc program for Data Science at Technical University Dortmund**, I will acquire an extensive comprehension of statistical methods and their practical application in data analysis. I will attain proficiency in programming languages commonly utilized in data science, such as **Python and R**, and master the design and implementation of machine learning algorithms for predictive and prescriptive analytics. Additionally, I will develop the necessary skills to handle and process large datasets using big data technologies, effectively communicate analytical findings through data visualization techniques, and integrate and analyze data from various sources to support decision-making processes. Moreover, I will learn to collaborate effectively within multidisciplinary teams to tackle intricate data challenges and remain up-to-date with the latest advancements in data science through continuous learning and research.

**Germany** is one of the most desired study destinations in the world. Germany has some of the top-ranked institutes that are known for their first-class quality of education. Regarded as one of the world's most popular international study destinations, it has built an elite education system. German institutions tend to have project-based learning, which is exactly what I'm looking for. It is considered one of the finest and safest countries in the world with a high standard of living. The rate of adopting new technologies is higher in Germany. Therefore, institutions provide a lot of practical approaches toward learning rather than just theory. **Multiculturalism is another aspect that really attracted me to Germany**. I perceive that learning in Germany will provide a solid framework for achieving professional responsibility, proficiency, and lifetime career development upon my return to India. As one of the safest countries in the world, Germans are also very friendly and welcoming to outsiders. German universities have a long and rich tradition of assembling bright minds and preparing them to become future professionals. These reasons prompted me to go to Germany for my Master's studies.

After deciding to pursue my masters at Germany I started my research for university selection. The unique academic approach of **Technical University Dortmund** influenced me to choose it as my destination. This University is ranked amongst the top in Germany, which indicates its high standard. The university maintains strong industry links, which reassures me that I will receive industry-relevant and industry-based education. The course content of **MSc program for Data Science** offered at this provider matched my area of interest. It is committed to providing students with the best possible experience. Moreover, the standard of research work here is extremely lofty. It is a friendly and welcoming university with a focus on practice-based learning. Most importantly, the curriculum and infrastructure are up-to-date, while the faculty is result-oriented. It has highly qualified trainers and staff with extensive experience in teaching and research. Thus, I chose to study in Technical University Dortmund.

I am confident that I have the preparation and potential to prove an asset to your graduate program as a graduate student. I look forward to an intellectually inspiring and fruitful association with your university.

Yours truly,

**Vanshika**