

## MOTIVATION LETTER

**Data science** is rapidly becoming essential skills for the future. Its importance is growing as more and more companies utilize these technologies to enhance their products, analyze their business strategies, and make better decisions. The demand for individuals proficient in data science will continue to rise in various industries. As the internet became an integral part of our daily lives, it brought with it a wealth of valuable information. Recognizing its significance, programmers developed techniques to extract, integrate, and analyze this data, leading to valuable insights. This has resulted in an increasing number of businesses and industries seeking the expertise of data scientists. This led me to the decision of pursuing a **Master's degree in Data Science. Pursuing a Master's degree in Data Science** would equip me with the necessary skills to enter this field. Once I complete this program, my goal is to join some of the best IT and software companies as a **Systems Analyst**. By working in these top IT and software companies, I aim to enhance my technical skills, gain valuable industry experience, and contribute to the development of innovative solutions that address complex business challenges.

As per my qualification, I successfully completed my **10th-grade with a score of 94.2% in 2018**. After that I completed **12th grade with a score of 81.6% in 2020**. Later, I pursued **B.Tech in Computer Science and Engineering with a specialization in Artificial Intelligence & Machine Learning at SRM Institute of Science and Technology**. I am expected to graduate in July 2024. In terms of language skills, I achieved an overall **Band Score of 7.0 in the IELTS Examination** conducted on 09/09/2023, placing me at C1 proficiency. Additionally, I attended the **YES School of Language** for a 12-week German course from July 2023 to September 2023, achieving proficiency at the A1 level.

I had the opportunity to undertake **virtual internships with the National Educational Alliance** for Technology (NEAT). These included an **AWS Cloud Internship, a Data Analytics Virtual Internship, and an AI ML Virtual Internship**, providing me with valuable hands-on experience in cloud computing, data analytics, and artificial intelligence/machine learning. I participated in a training and workshop session on "**Understanding Your Customers Better with a Modern Data Strategy**" organized by AWS Academy.

Besides academics I have successfully completed the following technical certifications:

- Cloud Operations from AWS Academy (Graduate)
- AWS Academy Cloud Foundations from AWS Academy (Graduate)
- Cloud Architecting from AWS Academy (Graduate)
- Azure AI Fundamentals from Microsoft (Certified)
- Application Development with Cloud Run from Google Cloud (Certified)
- Data Analytics from AWS Academy (Graduate)
- Machine Learning Foundations from AWS Academy (Graduate)

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.

After finalizing my decision on the program, I chose **Germany** for higher studies because of the advanced, reputed education system and globally recognized degrees. Top global universities are based in Germany, which indicates educational excellence. It is known for technological advancement with innovation and is also recognised for imparting research oriented excellent education system matching world standards. This culturally diverse country is home to various IT giants. The emphasis German institutions place on research and practical application matches my learning preferences. Most importantly, its degree genuinely receives great recognition globally for their excellence. It welcomes students of every nationality, every culture, and religion from all over the world. I have come to learn

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that its university is one of the largest, most diversified, and highly respected universities. Universities in Germany are at the forefront of research, which depicts the level of faculty teaching at the institutes. Education in Germany is focused on research and development rather than theoretical learning. All these factors contributed towards finalizing my decision in favour of pursuing my studies in Germany.

After finalizing a country, came the time to select an institution and I had searched for various universities and all of them made a good impact on me. But I decide to study at **Technical University Dortmund** because it is acknowledged as one of the most preferred universities in Germany. The academic curriculum of the institution is broad, sufficiently industry-linked, and comprises aspects that are of interest to my aptitudes. Courses offered by this university are integrated with the practical and the theoretical development and knowledge of the current era. It will provide me with a chance to meet different people and experience new cultures, which is extremely important for any professional, due to the increasing globalization of industries. The professors at the university are among the best in their fields, with years of experience at their disposal. The university has strong industry links to ensure the curriculum stays updated according to the needs of today's industry. Additionally, it has received numerous awards and top rankings. Hence, due to these reasons, I chose to study at **Technical University Dortmund**.

I assure you that I will be an asset to your university given the opportunity to pursue a Master's in the preferred field of study

Regards,

**Kishore Khan Shate Mohamed**