

STATEMENT OF PURPOSE

Machine-generated intelligence has been increasingly important in decision-making over the past decade. It is expected in the near future, the role played by humans in decision-making processes will become restricted to simply picking out the best options from a set of outputs generated by computers. The rise of Data Science has shown that machines are much better than humans at tasks like finding trends, understanding patterns, and making predictions from large datasets. I believe that undertaking the **MSc in Data Science from Technical University Dortmund** will enable me embrace a gratifying profession as a **Lead data scientist**. By taking this position, I will be able to engage in intricate data projects, cooperate with a skilled team, and aid in the progress and prosperity of the company.

As far as my education is concerned, I completed my Indian **Certificate of Secondary Education Examinations (10th class)** in May 2018, achieving a **score of 93.33%**. Following this, I passed my **Pre-University Examination (12th Class)** in July 2020 with a **score of 88.5%**. Since August 2020, I have been pursuing my **B.E. in Artificial Intelligence and Machine Learning at Visvesvaraya Technological University** in Belagavi, Karnataka, India, achieving a **CGPA of 9.41 by the 6th semester** and I am expected to graduate in June 2024. I took the IELTS Examination and achieved an overall **band score of 8.0**, indicating proficiency at level C1. During my academic journey, I've engaged in several internships to gain practical experience. I've completed **internships at ISRO Telemetry Tracking and Command Network, Neuberg Anand Academy of Laboratory Medicine Pvt. Ltd., and SIFF YOUNG ARTISTE Pvt. Ltd.** During these internships, I worked on projects related to telemetry systems, intelligent image processing for medical tests, and developing end-to-end pipelines for image processing, respectively. I attended a webinar on **AI in Pharma** and have skills in **C++, Java, C, Python, SQL**. In extracurricular activities, I participated in a webinar on **"Artificial Intelligence - Application in Pharma Industry,"** won a cricket competition at RV PU College, and was recognized as a promising cricketer during my 10th grade at ST. Paul's English School.

I have also worked on a variety of projects showcasing different AI applications. **"Gen Tech"** is a fashion recommender system I developed using NLP and ML. **"CleanSweep.AI"** tackles waste management challenges. **"TimeCapsule"** provides historical data summarization. **"TraffiKAI"** focuses on urban traffic management solutions. **"EcoChoice"** is an e-commerce recommendation system I created. **"Senti Meter"** analyzes online sentiments in detail. Finally, **"Pharmacist"** is a project aimed at streamlining drug discovery processes.

The most tempting reason for choosing **Germany** is that it is one of the most popular international student destinations. A large number of students from around the globe are coming to Germany for their higher studies. This multicultural environment builds outstanding interpersonal relations with other international students from around the world. Its educational system is internationally respected and held in high esteem. Universities in Germany are heading towards higher ranks on the global university ranking tables. I chose to study in Germany as the universities focus more on the practical aspect of learning, which is a priority for me at this stage of my career. In terms of living standards, it is known for its high quality of life. The education system in Germany is up-to-date, incorporating the latest technologies and innovations in research and learning. Hence, considering these points, I feel that Germany is the best study destination.

After deciding to **study in Germany**, I conducted extensive research on universities. After research, I found **Technical University Dortmund** to be in line with my aspirations. I have seen that it has good ratings and reviews from international students. While going through the course content on the university website, I realized that its courses are grounded in a creative approach to teaching that blends theory with practice. It delivers industry-focused qualifications which help to develop work-ready skills in today's fast-paced and competitive atmosphere. I believe that this university, with its talented and experienced faculty as well as academic capabilities will unquestionably mentor me into a skilled and fervent professional. The course contents are quite appealing and matching with the demand of the industry. I am confident that enrolling in this university would not only empower my career development but would give me the framework to utilize my full potentials.

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.

I hope that you will find in me a deserving and creditable student for your renowned University. I am certain that I will uphold the name of your institution and contribute positively to the student community.

Yours Sincerely,

Nishank, Kallollu Satish Kumar