

## LETTER OF MOTIVATION

My name is **Simranviraj, Mallar** and I am interested in pursuing a Master's degree in Data Science at the Friedrich Alexander University. I have always been fascinated by the power of data science. The internet has connected so many people, leading to an immense amount of data just waiting to be analyzed. Companies are already taking advantage of this by studying big datasets to understand consumer preferences and predict future sales. My interest in data science began when I realized its potential for developing marketing models. This interest still drives me today. I am eager to gain knowledge through my Master's program in data science and apply it to draw meaningful insights from large sets of data.

By the end of this course, I will have a strong grasp of mathematical theory and data science fundamentals, enabling me to effectively apply advanced statistical concepts. I will be skilled in analyzing datasets, deriving valuable insights, and making data-driven decisions. My knowledge of databases and data representation will be extensive, empowering me to design efficient database structures and manage data across various applications. I will also be proficient in modeling real-world scenarios with databases and representing intricate knowledge for AI systems. In the realm of machine learning and artificial intelligence, I will possess the expertise to develop intelligent systems that can autonomously learn from data and make predictions or decisions. I will be well-versed in a variety of machine learning algorithms, enabling me to choose and implement the most appropriate ones for different tasks. Through simulation and numerical methods, I will acquire the ability to model and simulate complex systems, enabling me to analyze their behavior and make predictions in situations where analytical solutions are not viable. I will also gain the proficiency to effectively utilize numerical techniques to solve mathematical problems and accurately simulate real-world phenomena. As for my future work plan, once I complete this program, my goal is to join some of the best IT and software companies as a **Systems Analyst**.

**Germany** has the reputation of offering high-quality education and receiving students worldwide internationally over for many years. I have chosen this country as my education destination because of the greater quality of education it provides, which is considered to be one of the highest standards and recognized globally. It is exposed to many international applicants, and as a result, assimilating and blending in would be much easier. Germany's multicultural society is enriched and heart-warming, which can attract anyone. It gives special schooling and a learning style that urges one to be inventive, imaginative, and think freely. It's result-oriented and experienced academic staff provides students with curriculum updated teachings so as to prepare them for future opportunities. In Germany, the teaching methodology is more practical along with the latest techniques and updated curriculum which makes the learning process advanced. All these factors impelled me to pursue my education in Germany.

After spending ample time in research, I found **Friedrich Alexander University** to be in line with my aspirations. The curriculum of the university is its main attraction; as it aims to constantly align with the current needs of the industry. With its innovative teaching methods, state-of-the-art laboratories, and research-friendly environment, the university will give me the best payoff. In addition, the course content is designed to offer students both practical exposure and theoretical knowledge, making the university highly attractive. It has an active alumni network which is an additional factor that encouraged me to select this provider. Also the culturally diverse environment of the University is beneficial to developing my perspective. Furthermore, individual attention to the student is practiced as class size is relatively small. There is also a significant Indian community in this institute which should help me integrate more quickly. All these factors convinced me to choose **Friedrich Alexander University**

As far as my educational history is concerned, I completed my 10th Class education with 83.5% (German Grade: 174) from the Council for the Indian School Certificate Examinations in April 2018. After that, I finished my 12th Class education with **84.2% (German Grade: 171)** from the Central Board of Secondary Education in July 2020. Currently, I'm pursuing a **Bachelor of Engineering in Computer Engineering at the University of Mumbai, maintaining a grade average of 9.85 CGPA (German Grade: 108)**. I am proficient in Python, C, HTML, CSS, OOPS, DSA, SQL (MySQL), Tableau, MS Excel, ML, and Data Science. Apart from this, I completed various certifications including Python, Pandas, Intro to Machine Learning, Data Visualization, and Data Cleaning from Kaggle Learn. Additionally, I finished the "Google Cloud Career Practitioner Campaign 2022" organized by GDSC PCE, Navi Mumbai. In terms of language proficiency, I achieved an overall score of 7.5 (C1 level) in the IELTS test. Additionally, I completed a Data Science & Machine Learning Internship at Edureka and volunteered at Google Developer Student Clubs. I ranked second in Computer Engineering at Pillai College of Engineering.

I look forward to receiving your response regarding my application and eagerly anticipate the opportunity to join your prestigious academy.

You're faithfully,