

Letter of Motivation

I am feeling very grateful to write about myself as a candidate for a Master's Degree in Data Science at the esteemed – FAU Erlangen.

As a full-stack Developer with a strong academic background in Computer Science and Engineering, my interest in Data science was already paved to some extent.

After obtaining a CGPA score of 9.4 and a score of 89.4% in my Secondary School and Senior School Certificate Examinations respectively, I graduated in 2023 with an honorable CGPA score of 8.8 with a BEng in Computer Science and Engineering from the Bangalorian Dayananda Sagar College of Engineering associated with the Visvesvaraya Technological University. I am proud of having been part of that University because it's renowned for its prestigious alumni network, including N. R. Narayana Murthy, the founder of Infosys Limited, the second largest Indian IT Company, and leader in Information Technology. My education has been completed in the English language and I also appeared for the IELTS test with an Overall Band Score - 7.5. During my bachelor studies, I worked on a Bachelor Thesis project titled Traffic Management using IoT and Deep Learning techniques. Since then, I am very delighted to work as a full-stack developer within Persistent Systems Limited where I am lucky enough to work on diverse missions for the American Big Pharma company Johson & Johson.

Initially, my keen interest in Data Science stemmed from my actual position as a full-stack developer because I have to manage database systems for our different clients. I was asked by Johson & Johson to provide a tool to analyze dynamic data about their new innovative tools to diagnose atrial fibrillation. To implement that, I required strong knowledge of Data Analytics, Modelling, pattern recognition, and advanced Mathematics. When I delved into these topics, I developed a continuous interest and my curiosity increased in a new step that made me fond of Data Science. I find this field extremely fascinating because I consider it our new modern challenge: implement data science solutions to improve the Industry sectors and to enhance productivity and technological progress in the sector of health. Then, I am very confident that your curriculum won't only provide me with theoretical content but also teach me how to implement methodological knowledge to implement solutions in industrial practice and more specifically in the health sector. Your different modules are a step in this direction because what I need for my future career is practical knowledge combined with strong mathematical skills. Thus, it aligns perfectly with my educational and professional aspirations to specialize in Data Science.

FAU has a large number of students – about 38000 students and many international students. There are many research projects and I have a keen interest in research projects at the University with the Machine Learning and Data Analytics Lab. The researchers of this lab focus on theoretical and applied research for wearable computing systems and machine learning algorithms for engineering applications to provide solutions in the sports and healthcare sectors. Moreover, Erlangen has multiple companies specializing in healthcare and technology like Portables HealthCare Technologies, VEC Imaging, Acalta GmbH. These companies are involved in various aspects of software, digitalization, and treatments for patients. I like the city of Erlangen, because there are a lot of theaters and concerts, and the student's life is especially excellent since all the facilities are provided to be fulfilled.

Over the last decade, we can observe that Germany has become one of the popular destinations for international student who wants to pursue their higher education from abroad. There are many reasons behind it. Many of the top-ranked universities are located in Germany. The country has a robust economy, high life quality, and an excellent education system. Germany is one of the best internationally recognized deliverables and primarily relies on research, thesis, and works-on training. Considering these reasons, I have concluded that Germany is the best choice for me.

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After I talked with some alumni from your program who are currently either data engineers, data scientists, Machine Learning engineers, and I am convinced that for all the above reasons, your program offers the keys to my future academic and professional success with a position on the data science world. I am also convinced that your studying environment will ensure my development as a human being passionate about IT.

I look forward to taking the lessons that I will learn from this Master's program and applying it to my future career. I would like to request you to accept my application and give me a chance to be a part of your institution.

Abriti Chakraborty