

Statement of Purpose

As a technology enthusiast and having a sound academic background in Information Technology, I, **Rohan Amol Vanmali**, feel privileged and eager to join the **University of Koblenz for the Web and Data Science (M. Sc.) program**. This program echoes all my interests and goals since it offers me the chance to explore more web development, and data science which are the two emerging fields that are revolutionizing the modern world.

My educational background starts with the first degree which is a **Bachelor of Engineering in Information Technology earned from the University of Mumbai**. Before that, I was awarded a **Diploma in Computer Engineering from Maharashtra State Board of Technical Education**. Thanks to these strong academic bases I realize that I am ready to embrace the computer science field with all the challenges it will set before me in dealing with principles of programs languages and data structures.

I was fortunate enough to work as a **Web Solution Specialist at Endurance International Group (India) Private Limited**. In this role, I was able proudly to solve more than 100 technical troubles with the web platform which led to a decrease in customer support tickets by 40%. Moreover, to enhance the smooth running of the system, I tested software and web applications keenly to identify or observe any flaws. My position as a Software Engineer and Data Science intern at **Techq Konnect Technologies Pvt. Ltd.** continued my education in enhancing the software engineering perception and exercising my talent in designing, implementing, and testing software and a variety of other software-related projects and handling data science assignments.

I scored an overall band score of **6.5 (B2) in the IELTS**. I have obtained another certificate from Udemty that I took, the **Ultimate AWS Certified Solutions Architect Associate SAA-C03 certification** to prove that I am dedicated to enhancing my knowledge and skills to meet the current turn of events in ICT. I also completed a certificate of participation in **Microsoft Dynamics 365 Training for Beginners** by ProMX.

I am proficient in various codes such as C, C++, Java, Python, JavaScript, and PHP among others, framework and technologies are HTML/CSS, NodeJS, ReactJS, Flutter, SpringBoot, and Streamlit. I am familiar with managing servers using Control panels such as Cpanel, Plesk, SSH, databases including MySQL, PostgreSQL, MongoDB, and Version control software like Github. Furthermore, other areas, I have a good understanding of include Data Structures and Algorithms (DSA), Database Management Systems (DBMS), and Object-oriented technology (OOT). In my university project named "Osteoporosis Fracture Analysis Using ML," I designed a statistically very efficient and reliable Machine Learning model for predicting the likelihood of osteoporotic fracture: work which proved I can use my theoretical knowledge practically.

The **master's program in Web and Data Science** at the University of Koblenz gives me a unique chance to enhance my technical skills and to get an in-depth insight into state-of-the-art web technologies ranging from web frameworks to machine learning and big data analysis. I particularly find it exciting to learn **complex web engineering technologies, understand more about big data processing, and apply intense aspects of machine learning**, where very large and difficult datasets offer techniques for insights. Moreover, the focus on the completion of projects and their implementation in the framework of a chosen field, as well as interdisciplinary cooperation, will contribute to the strengthening of vital skills, such as critical thinking and problem-solving in various teams' contexts. In addition to **technical competencies, improved communication, leadership, teamwork, and cross-cultural skills** are significant skills that would cost any firm an enormous amount in the present-day global employment market. Thanks to focused and committed learning, I am sure that after I finish this program, I will overcome such barriers to become an experienced and self-confident professional who is ready not only to initiate changes but also to implement them successfully in the field of web and data science.

Germany being a hub for technological advancements in technical education and research, it was perfect for pursuing a master's in a field as broad as Web and Data Science. Furthermore, the German educational system is well known for its excellent standards and pragmatic approach, which guarantees that I will have invaluable practical experience. The fact that Germany offers programs in English makes it accessible to overseas students like me and gives me the chance to study German, which is an invaluable skill in the global job market.

The infrastructure of the **University of Koblenz** with computing facilities, well-qualified staff and specially designed to enable students to succeed academically and practically. Opportunities for international networking and cross-cultural exchange are improved by the varied and multicultural student body. Because of the program's heavy emphasis on real-world experience, I can be sure that I will learn practical skills that I can use in my job.

As I graduated from the Web and Data Science (M. Sc.) program I have learned, that it will be my pleasure to start my successful career as a **Web Development Lead or Data Scientist** in the best-known and ranked companies in the world such as **Google, Amazon, Microsoft and IBM**. These organizations are at the pinnacle of technological advancement and innovation which is an ideal environment for me to work and engage in research to advance the organizations' projects. Finally, for the **long term**, my primary vision is to be an **entrepreneurial leader in web and data science**, building meaningful businesses that use technology to improve the world and provide real value for companies and the global community.

Based on my academic accomplishments, rich professional background, and love of technology, I am quite positive regarding my performance in the Web and Data Science (M. Sc.) program offered by the University of Koblenz. With this in mind, I desire to undergo this transformation process and I am ready and willing to face the challenges that come with this opportunity I have been given.

Thank you

Rohan Amol Vanmali