

## Letter of Motivation

### Introduction

My name is **Ganesh Ramesh, Sapani**, and I am from India. I am eager to explain my desire to obtain a **Master of Science in Data Science** at **FAU Erlangen-Nürnberg** and become a proud student of this academic institution. With my academic background and skills, as well as my passion for the technology field, I believe this program will enable me to achieve my professional ambitions and academic achievements.

### Academic, Professional, Technical Skills, Technical Certification, and Extra-curricular

I graduated from the **University of Mumbai** with the degree of a **Bachelor of Engineering in Computer Science and Engineering (Artificial Intelligence & Machine Learning)** with a **CGPI of 7.57 (German Grade: 2.4)**; my subjects were Engineering Mechanics, C Programming, Discrete Structures and Graph Theory, Microprocessor, Data Warehousing & Mining, and Machine Learning. Before this, I passed my **Class 12** from the Maharashtra State Board of Secondary and Higher Secondary Education and studied English, Geography, Physics, Chemistry, Mathematics & Statistics, Information Technology (SCI), Environment Education, and **Class 10** I completed my Indian certificate of secondary education, where I studied English, Mathematics, Science, Social Science, and Sanskrit. I gained practical exposure during my **internship** at **Woobblr Technologies Private Limited**, where I acquired skills in digital marketing, graphic design, and business development. Furthermore, I advanced my technical competencies through the **Google Cloud Computing Foundations** program, **Prepare Data for ML APIs on the Google Cloud Skill Badge**, **Set Up an App Dev Environment on the Google Cloud Skill Badge**, **Implement Load Balancing on Computer Engine Skill Badge**, and **Build a Secure Google Cloud Network Skill Badge**. My technical expertise is further strengthened through **projects** like **AI Hindi Poem Generator**, a pioneering initiative blending machine learning algorithms and natural language processing to craft poetic expressions in Hindi, and **Fine Food Industry Analysis**, which focused on accurately classifying mushrooms as edible or poisonous to safeguard consumers in the fine food industry, showcased at the **Project Exhibition Vision 2023**. Additionally, I contributed to **Student Engagement Analysis**, a project addressing the need for effective evaluation tools in digital learning environments, showcased at the Vi-Sion Project Exhibition 2022. Additionally, I enhanced my problem-solving and aptitude skills by completing the **Be Aptimistic Comprehensive - CRT** course and participating in the **MaTPo Aptitude Idol-2023** competition. I also attended a **webinar on GSOC** conducted by the Google Developer Student Club, which broadened my knowledge of open-source development. I have completed **certifications** such as "**Data Science Training**" from **Sonsvels Solution** and a **three-month offline training program on cloud computing** conducted by **Opine Group**. My active participation in hackathons, including the **AI Amplify Hackathon** organized by Finance and the **internal hackathon** at **Vishwaniketan's Institute**, demonstrates my enthusiasm for innovation and teamwork and Certificate of Publication for Manuscript of AI Hindi Generator Published in **Recent Trends in Programming Language** by STM Journals and Consortium e-learning Network. Furthermore, I passed the **IELTS** test, which shows my English language competency is at the **B2 level** and got an average result of **6.5 overall band score**. Also, I Completed **16 years** of Education in the **English Language**.

### Why Master of Science in Data Science?

A rapidly evolving field, data science is a multidisciplinary domain that integrates mathematics and computer science to develop techniques for data analysis and actionable insights. The **M.Sc. in Data Science** program at **Friedrich-Alexander University** offers specializations such as machine learning, data-based optimization, and mathematical-statistical analysis, which perfectly align with my academic background in artificial intelligence and machine learning. The program's flexibility to design an individual curriculum with applications in areas like simulation, databases, AI, and biomedical engineering complements my career aspirations. Having worked on projects like AI Hindi Poem Generator and Fine Food Industry Analysis, I am eager to gain practical expertise in solving real-world challenges through dynamic teaching methodologies and hands-on learning. This program's focus on interdisciplinary applications, from healthcare to digital humanities, aligns with my ambition to contribute to diverse domains by leveraging data-driven solutions. The course's integration of fields such as materials science and multimedia engineering also broaden career opportunities. With the advanced skills gained, I aim to secure impactful roles as a data scientist or AI specialist, contributing to cutting-edge innovation. Additionally, the program's emphasis on research offers a platform for me to delve deeper into data science's transformative potential, fostering long-term academic and professional growth.

### Why Germany?

**Germany** has developed an impressive status for qualitative education and research therefore attracting scholars from various regions. It has globally recognized universities with a focus on modern programs and stringent values of practicality. The technological growth and strong stats on data science in **Germany** make it possible to advance in the chosen field and find multiple opportunities for cooperation. In addition, due to the cultural diversities, the different and climatically receptive environment provides a one-stop development solution. It also currently has relatively friendly visa policies and good access to international markets, making it a great place to continue education and launch a profession.

### Why FAU Erlangen University?

**FAU** can be regarded as one of the leading universities in Germany currently carrying out teaching and research activities in every field. Appreciable measures adopted by the university regarding Data Science through the modules offered such as Artificial Intelligence, Machine Learning, and Big Data correspond to my career goal. Due to its intimacy with industry majors and hard-working research centers, it offers the best exposure to the latest changes. Accessibility to professional work tools and assets at **FAU** guarantees experience in keeping with global educational structures. The university is located in the Bavaria region enabling its students to access German economic and technological centres. Thus, **FAU's** strong dedication to nurturing international talent puts it as the best institution I would like to attend to achieve my academic and career dreams.

### Conclusion

Therefore, I consider that the credit program in the **Master of Science in Data Science** at **FAU Erlangen** will greatly benefit me academically and professionally. Supported by the program's demanding academic schedule and the outstanding facilities and environment of the university I will be well-prepared to study **data science**. Thank you for considering my application. I look forward to the opportunity to contribute to the academic community at **FAU Erlangen** and achieve my career aspirations in **data science**.

Sincerely,

**Ganesh Ramesh, Sapani**