

Statement of Purpose

I am **Lavanya Chandrappa**. I am writing this letter to express my intent to pursue a **Master of Science in Data Science at FAU Erlangen**. I am an **Electronics & Communication Engineer with my professional experience in the financial services industry and a strong inclination towards machine learning and data science**. I have obtained an overall score of band 7.0 in IELTS which highlights my command over the English language.

Academic Background:

I graduated with a **Bachelor of Engineering in Electronics & Communication Engineering** from Visvesvaraya Technological University, India, with a **CGPA of 8.50**. My course included subjects such as Machine Learning, Data Science, and Internet of Things, drawing my interest towards the Data Science field. Additionally, I undertook "Contactless Voting Machine" as my Bachelor's Project to apply my skills and knowledge to automate the voting process and get fast and reliable results.

Professional Experience

My current role as an **Associate Consultant at Oracle Financial Services Software Limited** has provided valuable exposure to data management practices within the financial sector. My analytical skills have been enhanced by working on functionalities like salary processing and BI report creation. This experience has taught me the importance of data accuracy and efficiency, crucial aspects of data science.

Building My Skill Set

Beyond my academic and professional experiences, I actively seek opportunities to deepen my knowledge in data science. I have completed online courses on Coursera, including "Introduction to Data Analytics." Additionally, I possess technical skills in Python, MySQL, PL/SQL, and C++, which are fundamental blocks for data analysis and manipulation. I also did an internship at Unique Tech Designs, which provided a great exposure to Embedded Systems, IoT Technologies, PCB Designing and 3D Printing.

Why FAU Erlangen?

The curriculum at FAU provides a comprehensive understanding of data analytics, artificial intelligence, machine learning and statistics. We will be able to learn how to create complex data models and apply them to different use cases. The electives offered such as optimization, Mathematical theory / Fundamentals of data science, Databases and knowledge representation, Machine learning / Artificial intelligence, Simulation and numerics gives numerous choices to select from both in research and practical applications.

Why Masters in Data Science?

Through a master's in Data Science at FAU, I will gain a solid foundation in advanced analytical techniques, machine learning, and statistical modeling. I will develop expertise in constructing and implementing complex algorithms, data structures, and neural networks, essential for tackling real-world data challenges. Engaging in cutting-edge projects in FAU's state-of-the-art labs will allow me to apply theoretical knowledge to practical applications, bridging the gap between academia and industry. This program will prepare me for advanced roles in various industries, enhancing my career prospects and personal growth in the dynamic field of data science.

I am confident that methods and tools, which cover big data and their analysis, data modelling, machine learning, and simulation methods taught at FAU Erlangen with mathematics and computer science faculties along with my skills and knowledge will help me achieve my goals and do something big and productive towards data science field and overall development of the community.

Thank you for considering my application.

Sincerely,

Lavanya Chandrappa