

Statement of Purpose for Technical University, Berlin

I have been fascinated by Artificial Intelligence since my undergrad days in IEM; when my mentor first introduced me to the concepts of Artificial Intelligence and Machine Learning, I was awestruck, and my jaw dropped thinking about what possibilities lie ahead if I will read and gain more knowledge about the newest fields in Computer Science. On top of this, Data had always fascinated me, more so when I started working on Machine Learning projects; that was when I understood how powerful data could be and the various insights I could gain. It had a paradigm shift in my thought process, and ever since, I have always been deeply invested in this field to find new insights to help our race in my small way. Coming from a humble background, I recently completed my Bachelor in technology with a specialization in Computer Science Engineering from the Institute of Engineering and Management with an overall score of 8.41 CGPA.

For me, learning is not limited to the four walls of a classroom. Keeping with this approach, I worked on an independent all-purpose vehicle project and quadcopter with self-balancing capability. The first project was completed within three months and six months respectively. Additionally, I have published articles on the effective monitoring and controlling drainage water using IoT and AI and a low-cost autonomous multipurpose vehicle for advanced robotics. I have also completed the 2021 web development boot camp, fundamentals of programming using Python, Javascript course, and Machine Learning course.

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The program is the logical step to understand the framework behind cutting-edge machines in evolving technology. As an analytical person, dealing with data invigorates the drive to learn and grow professionally and personally. The program shall help me develop competencies and skills to thrive and evolve with constant changes. Dealing with big chunks of data has its own set of problems and issues. The program acts as the framework by focusing on collecting, processing, and presenting data sets. It will help develop the solution based on skills, database design, data processing, data warehousing, and data visualization by laying a solid foundation. The applied techniques will aid in problem-based learning, real-life situations and simulations. The course modules in Deep Learning, Natural Language Processing, Robotics, Expert Systems and Fuzzy logic would render expertise and get me familiarized with contemporary technology. Overall, it shall help analyse different Machine Learning parameters and processes to select the appropriate solution to support automating requirements. Upon program completion, I intend to return to India, gain full experience, and launch my start-up.

After comprehensive research and evaluation and mulling over different parameters about institutions worldwide, I could finally corner my research at the Technical University for its unique curriculum and excellent relation with the course. I believe that Technical University can help me immensely in order for me to achieve my dream of becoming a Data Scientist, so that I can apply my skills which I will be acquiring from this esteemed institution to some life altering work in digging out data and predicting events in a way that nobody else ever did. I also believe that technical expertise of faculty members of D

University like Burlick Matthew's and Preetha Chaterjee's knowledge in Machine Learning, Computer Vision, Spatio-Temporal Tracking and NLP along with Jabbari Shahin's knowledge in Game Theory and Algorithmic Fairness will help me immensely in my goal of knowing more about Machine Learning and Artificial Intelligence. I am also fascinated by the foundation course depth for AI and ML in Technical which will help not only in getting me a greater understanding of Artificial Intelligence but also letting me tackle real world problems using real data sets and capstone projects. Technical University is in the forefront of technological advances in all the fields of Computer Science and I cannot wait to be a part of that challenge and team.

GERMANY has been home to top colleges worldwide and the education hub for many international students who desire to be the best. GERMANY shines out as the country to look forward to while pursuing higher studies with its diverse culture and wealth of opportunities. Also, the cost of education is comparable with other developed nations; what stands out is education quality. It would be a pleasure to be in GERMANY with the great culture and brotherhood with a vibrant economy, and a great site to travel to. Hence, I do not doubt that GERMANY shall be the perfect country for my future to build networks and global connections as a global citizen.

With the Masters degree from Technical I look forward to go back to my country, India and work with various NGO's and companies in solving real world problems which affects not only the poverty stricken people but also the booming middle class. Technical's co-op will help me in getting my hands dirty with real data sets so that I can get a flavour of how to solve problems in real time basis and I believe that this course is best suited for me as not only I have been fascinated by Artificial Intelligence but also my experience in corporate world of IT back in India has helped me gain key insights as to how to tackle problems calmly and in a time-restricted way without losing my sanity. So I truly hope that I can inculcate that experience in learning AI and ML from your institution and change the world for good.

With my hard-working, enthusiastic nature and ability to grasp concepts quickly, I shall be an asset to the college and assure you of my commitment towards the same. With a lot of conviction, I shall wait for the letter of acceptance to your prestigious college.

Sincerely,

Rahul Rudra