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SOP Samples for MS in Mechanical Engineering

My fascination for engineering has been one of the prime driving forces of my career. I recall dismantling my toy cars at the age of three, and my new bicycle at five, much before I tried my hands on my motorcycle in my teens. The passion to excel in the field of mechanical engineering has made me organized and goal-oriented in my academics. The concept of inventing new technologies for ease and comfort keeps me going. I have found this concept deeply rooted in the evolution of mankind. People have never ceased thinking of new machines that would save their time or make their journeys comfortable. From this perspective, I decided to channel my inquisitive mind to innovate things. Mechanical engineers have come a long way, evolving as the brain of intelligence in machines. Along with excelling in mechanical engineering, studying AI and ML would expose me to a plethora of opportunities in different verticals. The demand for mechanical engineers specializing in machine learning is currently high in India. Prioritizing the needs of the industry, I decided to pursue B. Tech in Mechanical Engineering from IIT Kharagpur. Looking forward, I wish to further leverage my professional profile in the area of my interest. This explains why I decided to pursue my Master's degree in Mechanical Engineering from Imperial College, London. I have been in quest for a career that would bridge my passion and professional goals. The field of mechanical engineering appeals to me more than any other domain. I have been consistent in my academics all these years. This is also evident from the grades I obtained in the entrance tests while I secured admission at an esteemed institution like IIT Kharagpur. It was during my graduation that I got the opportunity to explore the fundamental of thermodynamics, mechanics, designing, and developing thermal devices. It was a pleasure for me to work on several academic projects. I was an active participant in seminars and conferences, which helped me interact with industry experts. At the same time, I found the most gratifying pastime in the library. Here, I used to devour latest technology-related news published in global journals. Through all these efforts, I strived to stay abreast with the latest developments in the industry.

There's no denying that I used to find the most happening time at the workshops and laboratories, as I engaged myself with practical activities. The opportunity to study at a reputed college in India fetched me the privilege to attend several national conferences. Besides, I have attended machine learning workshops organized in other colleges too. For me, it was a pleasure to lead our department in inter-college fests and competitions. In the process, I could work on my leadership and managerial skills.

I bagged 87% and 93% in my Secondary and Higher Secondary examinations. I followed these grades up with a healthy CGPA of 9.2 in my graduation. It was in the last semester of my engineering course that I designed a refrigeration system to minimize cost, deploying LPG. This gas is capable of absorbing heat after evaporating, resulting in a cooling effect. I also came up with a refrigeration model using this quality of liquified petroleum gas. The objective of developing such a refrigeration system was to help villagers who don't have access to electricity all the time. I lead a team of four while we worked on this project. As a result, I fostered the virtues of teamwork and collaboration in my character. Besides, this project bestowed me with the astuteness to develop any machine right from scratch. Meanwhile, I attended a few online courses and webinars on Coursera to refine my knowledge. These courses closely aligned with the area of my interest, and I loved exploring domains like neural networks, ML algorithms, data modelling and evaluation, and AI.

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Studying Mechanical Engineering at Imperial College would be a strategic decision for me. Recruiters in India highly value professionals holding advanced degrees from this college. The industry-oriented nature of the curriculum makes the learning process valuable. Besides, I would love to refine my skillset by undergoing training through advanced research programs as I access novel ideas. Other reasons to choose your institution include the globally renowned faculty, multiculturalism, diversity, and strong industry connections. Besides, Imperial College London has been collaborating with industry leaders in the engineering sector. This opens up lucrative opportunities for me to intern in reputed companies in the UK as I imbibe practical skills. At the same time, I have come to know about the advanced research and development facilities at your institution. International aspirants benefit from the supportive academic environment at this institute. Considering all these aspects, I decided to enroll for this course.

Back in India after completing this course, I would like to work with some of the leading engineering companies. Along with specializing in mechanical engineering, adequate knowledge in machine learning will help me automate machine parts. This field is quite demanding, and I look forward to craft a happening career for myself in India. Even hardware technicians need adequate knowledge in machine learning to come up with intelligent devices and robots. Given that robotics defines the future of several industries, including the automotive sector, it would be a logical decision for me to specialize in this domain. Besides, I have come to know that developing algorithms call for AI research. Different mathematical formulas are deployed to transform it into a relatable process, thanks to advanced software and hardware. Excelling in the area of my interest, I look forward to delving deeper into the competitive industry in India. This explains why I want to pursue this program after completing my graduation.

As an avid learner, I remain open to knowledge acquisition. All these years, I have incessantly strived to gain superiority in academic knowledge. A berth in your esteemed institution will help me realize my professional goals. I hereby promise to contribute to your organization, sharing my knowledge with my peers and refining the academic environment. Devoting myself to an eventful career, I look forward to ushering positive changes in mechanical engineering.