STATEMENT OF PURPOSE

I am **Bhumi Goyal**, and I am applying for the **Master of Engineering (M.Eng.) in Information Technology with a focus on Artificial Intelligence** at **SRH University Heidelberg**. This statement of purpose outlines my academic background, work experience, and my motivations for choosing this program at SRH University Heidelberg, alongside my reasons for studying in Germany.

I graduated in July 2024 with a **Bachelor of Technology in Computer Science and Engineering**, scoring a **CGPA** of **7.50.** During my school years, I **scored 70.4%** in my Senior Secondary Examination (July 2020) and **72%** in my Secondary Examination (May 2018). While these numbers represent consistent performance, they also reflect the values of diligence and persistence instilled in me. My journey so far has not been about rote learning but about uncovering patterns and finding solutions, whether it understood the theory of computation or solving real-world challenges during my internships. I completed 16 years of education in the English language. I took the I**ELTS exam and achieved an overall band score of 7.0 (CEFR Level: C1). My scores were: Listening 8.0, Speaking 7.0, Reading 7.0, and Writing 6.5.**

When I think about the role technology plays in shaping businesses today, I often recall a summer **internship at Voith Digital Solutions India Pvt Ltd.** and **Smart Internz**. The task seemed straightforward—analyse recruitment data and design a web-based system. However, I soon realized the intricacies involved. It was not just about coding but about understanding user behaviours, anticipating needs, and balancing efficiency with security. It struck me then that technology is as much about human dynamics as it is about logic. This experience deepened my interest in systems that bridge gaps between technology and business strategy, steering me toward Information Systems as a field of expertise. In terms of my professional background, I have been working as a **Software Engineer at S2Infinitum Softech Pvt. Ltd.** from June 2024 till now.

Of course, learning is not limited to classrooms. Certifications have played a crucial role in helping me explore new areas. I completed courses in **Cyber Security and Privacy** and **Principles of Economics** through NPTEL, which added diverse perspectives to my technical education. **The Python Bootcamp** I completed in September 2023 through Udemy gave me the confidence to write efficient scripts, and a **4-week Software Testing** course in February 2024 developed my analytical approach to quality assurance. Each of these certifications has been a stepping stone, sharpening my ability to connect different technical disciplines. I completed the **6-week Data Analytics course** organized by Cetpa Infotech Private Limited and was awarded a Certificate of Training.

Deep curiosity in artificial intelligence technologies and their great ability to transform sectors drives me to seek the M.Eng. in Information Technology with an emphasis on Artificial Intelligence. From improving data security using AI-based systems to creating intelligent automation for many industries, I think artificial intelligence is the key to opening fresh chances for addressing world problems. By using this program, I hope to enhance my knowledge of machine learning algorithms, data mining, neural networks, and other sophisticated artificial intelligence approaches. The M.Eng. the course will provide me with the advanced abilities needed to investigate fields such as natural language processing and autonomous systems and work on high-impact AI initiatives. This program seems to me as a stepping stone towards my aim of helping to create significant, long-lasting AI-driven solutions

Germany has traditionally been a destination of choice for advanced study in technology. Aspiring engineers find the nation perfect because of its emphasis on sustainability, dedication to modern research in artificial intelligence and machine learning, and expanding AI-driven tech sector. Germany also presents a sensible combination with top-rated facilities and a good quality of living. Strong ties between university, business, and research facilities in the nation offer a great chance to collaborate with top professionals in the area and learn about various artificial intelligence uses from automation to healthcare. Moreover, Germany's involvement in AI-driven sectors including healthcare and automotive technologies offers interesting employment prospects.

SRH University Heidelberg provides the perfect setting to advance my artificial intelligence study. Emphasising practical applications, the M. Eng. in Information Technology program's curriculum is meant to give in-depth knowledge of artificial intelligence. The CORE (Competence Oriented Research and Education) learning paradigm guarantees that students have not just academic knowledge but also the ability to operate successfully in the field. The university's strong research focus and reputation for encouraging multidisciplinary cooperation appeal to me as it reflects my wish to create original ideas. The university's robust network of several research facilities appeals especially to me as it would let me cooperate on projects at the forefront of artificial intelligence development. SRH University Heidelberg is the ideal place for my graduate studies because of the well-rounded character of the curriculum, which emphasises both theoretical ideas and their practical implementations.

The courses in this program—machine learning, digital signal processing, and deep neural networks— offer just what I need to advance my abilities. Working on initiatives and research in these fields will provide me the opportunity to grow the knowledge needed for positions as Machine Learning Engineer, Data Scientist, or AI Researcher. My learning experience will be mostly shaped by the use of artificial intelligence in practical challenges, especially in industries like healthcare, finance, and automation; so, I am enthusiastic to investigate these domains more. I want to work with companies like Fractal Analytics, Mu Sigma, and LatentView Analytics, where I can help to create AI solutions in sectors including banking, logistics, and healthcare, so supporting businesses leading the charge in artificial intelligence innovation. From SRH University Heidelberg, the M.Eng. in Information Technology with a concentration in artificial intelligence will provide me with the tools and expertise required to operate in such companies and significantly change the AI scene.

Having a strong academic background, practical knowledge in software development, and a sincere love of artificial intelligence will help me to equip myself with the means to thrive in the fast-changing field of artificial intelligence. The chance to develop personally and add to the active academic community at SRH University Heidelberg motivates me.

Sincerely,

Bhumi Goyal