

## **STATEMENT OF PURPOSE**

The world is increasingly embracing intelligent systems where human creativity meets machine precision. My fascination with AI began with Amazon's Alexa, sparking my curiosity about how AI transforms everyday tasks. This passion led me to study Computer Science, where I explored programming, logic, and data structures. Pursuing a bachelor's degree in the subject with a stellar CGPA of 9.92 deepened my expertise in Data Structures and Algorithms, Machine Learning, and Data Mining, enabling me to implement algorithms, analyze data, and develop predictive models. To bridge theory with practice, I engaged in impactful internships, projects and courses.

My projects, including Cancer & Brain Tumor Detection, Credit Card Fraud Detection, and an ASL Recognition System, which showcases my ability to merge AI with real-world applications. My ongoing research, 'Advancing Healthcare Through Automation and AI Integration,' explores predictive models to improve diagnostics. Beyond academics, I pursued extracurriculars that fostered holistic development. As a core member of the Tech Club, I organized seminars and events, managing a team of 60. These encounters improved my abilities for managing groups, planning activities, and using critical thinking.

Working as an MIS Executive at Virat Metals, I streamlined data management, created dynamic dashboards, and applied advanced data analysis techniques, improving operational efficiency by 15%. At Navpad Metal, I built interactive dashboards, reduced data processing time and accelerated decision-making. As a Digital Marketing Associate, I optimized a user-friendly website, increasing traffic by 30% through SEO. My LetsGrowMore internship enhanced my web development skills, allowing me to create scalable, responsive interfaces that improved usability.

Singapore is widely acknowledged as a leading hub for technology and innovation which makes it a great option for pursuing an education in Artificial Intelligence. The country is renowned for its rich culture and high quality of life along with a network of tech companies creating a unique environment that fosters both academic and career development while also granting opportunities to engage in state of the art research possibilities. What really caught my eye about The Nanyang Technological University (NTU) is its world-recognized Master of Science in Artificial Intelligence (MSAI) course that aligns well with my career aspirations. With top notch infrastructure and focus on high research standards it presents an ideal environment for me to enhance my expertise. The dynamic teaching approach and focus on practical applications at NTU will provide the perfect environment to refine my skills and give valuable contributions to the ever-evolving field of AI.

After graduating, I desire to apply the knowledge gained by fulfilling a master's degree in Artificial Intelligence for driving technological growth in my home country. India's AI sector is burgeoning but still lags in comparison to global advancements. This inspires me to

develop scalable and effective AI solutions tailored to the unique challenges faced by my country, while contributing to bridging the gap between academia and industry. I hope to develop a reputable research and applications ecosystem that one day will enable my country to become competitive on the international technology stage.

My background in Computer Science, extensive experience in Python, Machine Learning and Data Analytics, combined with my experience, projects, as well as AI-based research make me an ideal candidate for this program. I am excited to harness NTU's advanced curriculum to create AI-powered systems to solve practical problems, in line with the direction of the global development of AI applications. I believe that I will be able to thrive in NTU's MSAI program, serving as a platform for me to leverage AI to create impactful, equity-driven innovation while nurturing my skills as a future contributor to this field.