

To,  
The Admissions Committee  
Colorado State University  
Fort Collins, CO 80523  
United States

Dated: June 21, 2024

Subject: Statement of Purpose for Admission to the Bachelor's in Computer Science Program

Dear Admissions Committee,

It is with great enthusiasm that I submit my application for the Bachelor's Program in Computer Science at Colorado State University. Our planet is facing complex and urgent problems, from the need to combat new diseases to alleviating hunger to managing and reversing the effects of climate change. I believe that Computer Science, together with human ingenuity, holds the potential to make a positive impact by addressing these problems. I am eager to learn from the experts and peers at CSU and contribute to the advancement of this important discipline.

Throughout my education, I have been driven by an interest in understanding fundamentals, and over time, this interest has transformed into a motivation to not only understand intelligence but also to participate in its development. As I complete my school education, I find the most appealing prospects for a satisfying career in contributing to shaping a future where human and artificial intelligence work together to bring about a better tomorrow for all.

As my Grade 12 CBSE Computer Science project, I developed Aeoronav, a user-friendly real-time airline ticket booking and management system using Python. The primary objective was to create a user-friendly interface for efficient booking and management of airline tickets. The key features of the system include user login functionality, flight search and booking capabilities, ticket management (including cancellations and rescheduling), and seamless integration with a MySQL database. The graphical user interface (GUI) was built using Tkinter, providing an intuitive and visually appealing experience for users. Additionally, I plan to improve Aeoronav by incorporating seat selection, boarding pass generation, and flight status tracking to further demonstrate my skills in software development and practical applications.

Driven by my interest in Computer Science and AI, I have also completed a 45-day internship with Varneyam Motors, where I participated in two projects: one on customer feedback and sales data analysis, and the second on improving the organization's cybersecurity.

I am applying for the Bachelor's in Computer Science program at Colorado State University because I believe that the program's comprehensive curriculum, which includes courses in machine learning,

artificial intelligence, and cybersecurity, aligns perfectly with my career goals. The program's emphasis on hands-on learning and research opportunities, particularly the access to cutting-edge research labs and the opportunity to work on real-world projects, is highly appealing to me. CSU's focus on interdisciplinary learning will enable me to apply computer science principles to a variety of fields, such as healthcare and agriculture, which are areas where I am passionate about making a difference.

These are all practical possibilities that CSU's Bachelor's in Computer Science program equips its graduates to achieve. The curriculum's emphasis on theoretical and technical aspects, machine learning, and the considerations of ethics perfectly align with my goals, and I am eager to join this program and learn from the experts at CSU.

I am driven by a strong sense of hard work, accountability, respect, diversity, and honesty in my pursuit of further education. I share CSU's vision of using technology for the benefit of all and not just a select few. I also value the opportunity provided by CSU to collaborate and learn from other leading institutions in the field. I believe that the best way to grow as a researcher is to work with peers from different backgrounds and contribute to team projects and goals. This is what the program offers its students and will enable me to contribute to a future where technology is a bridge and not a barrier.

Thank you for considering my application. My academic background, diverse skillset, commitment to ethical practices, focus on collaboration, and intellectual integrity align strongly with your program's values, and I am confident I can contribute meaningfully to the vibrant learning community at Colorado State University.

I eagerly await the opportunity to discuss my aspirations and how I can contribute to your esteemed program.

Sincerely,

Mohammad Ibrahim Abdul Aali

**To Whom It May Concern**

This letter is to confirm the successful completion of a 45-day internship undertaken by **Mohammad Ibrahim Abdul Aali** a student of grade 12 of Delhi Private School, Sharjah at **Varneyam Motor Car** in Bhopal, Madhya Pradesh, India, from **03/08/2023 to 18/09/2023**. During this period, Mohammad Ibrahim was placed within our computer department.

Throughout the internship, Ibrahim impressed us with his intellectual ability and passion for artificial intelligence. His strong foundation in Mathematics and Computer Science concepts, together with his eagerness to learn and explore new ideas, made him a valuable part of our team. During his internship, Ibrahim demonstrated exemplary work ethics and the ability to contribute to team objectives, which I believe will greatly contribute to his success in the future.

Ibrahim actively participated in two team projects, including one notable project involving the analysis of customer feedback and sales data to identify trends and insights that could help our marketing department in making better decisions. Utilizing free tools such as Google Colab and Python libraries like Pandas and Matplotlib, Ibrahim worked with our team to develop a predictive model to forecast sales trends based on customer sentiment analysis. In the second project, he worked with the team to improve our security measures by developing a prototype for detecting phishing emails using machine learning algorithms. In this project, the team used TensorFlow and Scikit-learn, and datasets available from public repositories to create a model that improved email filtering. In the completion of these projects, Ibrahim demonstrated a good aptitude for problem-solving, attention to detail and a proactive nature to ensure the accuracy and efficiency of work.

Beyond technical skills, Ibrahim displayed good soft skills, collaborative spirit, and effective communication skills within the team and his positive attitude, adaptability, and willingness to learn created a productive work environment. He actively sought additional learning opportunities beyond the assigned tasks.

Based on Ibrahim's outstanding performance during the internship and personal qualities, we do not doubt that he possesses the potential to successfully pursue a bachelor's program in computer sciences and artificial intelligence and progress into a rewarding career in this field.

We wish Ibrahim the very best in his future endeavors. Please feel free to contact me [hrmanager@varenyam.co](mailto:hrmanager@varenyam.co) or **+91 9039009719** if you require any further information or clarification.

Sincerely,

**Swati Singh Sisodia**

**Group HR – Varenyam Motor Car**



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