

# Statement of Purpose

**Arushi Kumari**

**Program Applied For:** Bachelor's in Artificial Intelligence Engineering

**Current Qualification:** Diploma in Mechanical Engineering

From the moment I began designing mechanical systems in AutoCAD and Fusion 360, I realized that precision and intelligence could coexist. Each 3D model I created led me to a deeper question — what if machines could learn to improve their own designs? That curiosity evolved into a clear goal: to merge mechanical design with artificial intelligence and build intelligent systems that redefine how we design, manufacture, and move.

During my Diploma in Mechanical Engineering, I worked extensively with CAD/CAM tools and completed projects that combined creativity with engineering accuracy. My internship at NCC Limited exposed me to large-scale infrastructure operations, where I learned how engineering precision translates to real-world problem-solving. These experiences strengthened my analytical thinking, discipline, and desire to integrate innovation into mechanical design.

Exploring AI and machine learning revealed how algorithms can optimize workflows, predict failures, and automate production. I applied these ideas through projects such as an AI Chatbot Assistant, a Robotic Arm Simulation, and a Computer Vision Object Tracker, blending AI logic with mechanical design principles to create systems that think as well as function.

I now aim to pursue a Bachelor's in Artificial Intelligence Engineering at a university that values interdisciplinary innovation and hands-on learning. My vision is to create intelligent robotic systems that enhance human capability and sustainability in manufacturing. I am especially drawn to programs that bridge AI, mechatronics, and automation—where design and intelligence meet.

I believe your university's commitment to research, creativity, and collaboration makes it the ideal environment to grow as an engineer and innovator. My foundation in mechanical systems, combined with my passion for artificial intelligence, equips me to contribute meaningfully to your academic community.

This degree is more than an academic pursuit—it's the bridge between my mechanical roots and my dream of building intelligent machines that shape a smarter, more efficient future.

Sincerely,  
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