

NISHITA NITIN GAIKWAD

Undergraduate, B.Tech Mechanical Engineering
NIT Jalandhar

Gender – Female
DOB – 28/07/2005

nisg0628@gmail.com | [LinkedIn Profile](#) | [GitHub Profile](#)

PROFESSIONAL SUMMARY & CAREER OBJECTIVE

Highly motivated Mechanical Engineering undergraduate with a robust background in AI/ML, IoT, and front-end development. I have a proven track record of successfully leading technical projects, achieving quantifiable results (e.g., reducing system response times by 30% and improving data retrieval by 40%), and excelling in competitive academic and technical environments. My key skills include software integration, hardware interfacing, and rapid problem-solving—essential for roles in technology-driven product development and innovation.

Career Objective: Seeking an engineering role in a forward-thinking organization where I can apply my technical expertise and leadership skills to develop innovative solutions that enhance operational efficiency and safety, and drive significant business impact.

EDUCATION

Dr. B R Ambedkar National Institute of Technology, Jalandhar B.Tech in Mechanical Engineering
| 2023 – Present

Arya Gurukul (CBSE Board)

- **Intermediate (PCM with CS):** 2022 – 2023 | **88.80%**
- **Matriculation:** 2020 – 2021 | **94.40%**

TECHNICAL SKILLS

Programming Languages:

- C, Java, Python, HTML, CSS, JavaScript, ReactJS

Software & Tools:

- Git, Bash, MATLAB, SolidWorks, ANSYS, AutoCAD (2D & 3D), MySQL, MS Office, Tinkercad, Animaker

Frameworks, Libraries & Environments:

- IDLE, Jupyter Notebook, CodeBlocks, NumPy, Pandas, Matplotlib, Seaborn, Flask

Cloud Technologies: AWS, Netlify, Streamlit

PROJECTS & CONTRIBUTIONS

IoT-Based Disaster Management System for Avalanche Safety (2023 – Ongoing)

- **Objective:** Develop an AI/ML-powered IoT system that integrates sensors and real-time alerts to mitigate avalanche risks. Coordinated a team of 10 members to ensure seamless hardware and software integration simultaneously upskilling Teamwork, Leadership and dedication qualities

Fire Alarming System with Healthcare Integration (2024)

- **Objective:** Create a Python-driven IoT solution for immediate detection of fire incidents and associated health emergencies. Implemented communication protocols enhancing sensor-to-responder connectivity. .

Library Management System (2023)

- **Objective:** Design a scalable resource management system using Python and MySQL for efficient book tracking.

Sweet Shop Management System (2024)

- **Objective:** Develop a point-of-sale and inventory management system using C. Created billing algorithms that has potential to decrease checkout times by 30% during peak hours.

Virtual Labs for Mechanical Department (2024 – Ongoing)

Objective: Establish an interactive web platform to simulate mechanical engineering experiments. ○ Led front-end development with HTML, JavaScript, and CSS, enhancing remote lab access.

Interactive Calendar System (2025)

Objective: Develop a dynamic web-based calendar with AWS integration for efficient scheduling. ○ Managed both front-end development and cloud deployment to ensure a high uptime, scalable solution.

Personal Chatbot System (2025)

- **Objective:** Design an AI-driven chatbot to automate customer interactions. Contributed to developing and training algorithms, resulting in active user engagement.

E-commerce Website Clone (2023)

- **Objective:** Replicate key e-commerce functionalities using modern web development techniques. Handled front-end development.

EXPERIENCE

Agnirva Space - Internship Program (Oct 2024 – Dec 2024)

- **Role:** Intern
- **Achievements & Responsibilities:**

Contributed to advanced aerospace projects by streamlining design processes and enhancing project workflows and understanding the technicalities, ○ Enhanced my team coordination skills and understood the current technology in use.

CERTIFICATIONS

- **Machine Learning:** Gained proficiency in Supervised and unsupervised learning, model evaluation, and Python-based ML implementation, Certified by Internshala and NSDC(Grade B) – (Dec 2024 – Jan 2025)
[NSDC Certificate](#) | [Completion Certificate](#)

SCHOLASTIC ACHIEVEMENTS

- **TECHNEX Representation:** Represented NIT Jalandhar at TECHNEX (IIT BHU) – 2025
 - **Hackathon Participation:** Competed in Skill India Hackathon (SIH) – 2023, 2024
 - **Technological Fellowship:** Qualified Stage 1 of Algo University Technological Fellowship (ATF) – 2024 (selected among **20,000+** applicants)
 - **Competitive Exam Performance:** Achieved **Qualifying Percentile** in JEE Mains in 1st attempt
 - **Academic Rankings:** Consistently ranked in the Top 5 during Matriculation & Intermediate – 2021, 2023
 - **STEM Competitions:** Runner-up in STEM competitions – 2021, 2023
 - **NDA Achievement:** Cleared NDA Written Exam on first attempt – 2023
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EXTRACURRICULAR ACTIVITIES

- **Prayaas:** Active member contributing to community initiatives (2024 – Ongoing)
- **Club Involvement:** Member of CDAO & WDSC Club (2023 – 2024)
- **Publications:** Contributor to Hindi magazine *Parikrama* (NIT Jalandhar) (2024 – 2025)
- **SSB:** SSB Recommended (2024)
- **NCC:** Awarded NCC Air Force A Certificate (A Grade) (2019 – 2020)
- **Scout & Guide** (2014 – 2016)
- **Spell Bee International:** Awarded Junior Bronze Medal (2016 – 2017)
- **Sports:**
 - Represented district in Volleyball & Handball (achieved 2nd place at Taluka level) (2016-19)
 - State-level Rifle Shooting representative with Gold in district competitions (2016-22)

LANGUAGES

- Hindi, Marathi, English

HOBBIES

- Dance, Poetry Writing, Rifle Shooting, Volleyball, Handball