

Shivani Gupta

Third Year Undergraduate
Department of Civil Engineering

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ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/%
2022 - Present	Bachelor of Technology	Indian Institute of Technology Kanpur	6.4/10.0
2021	CBSE (XII)	Air Force School, Bamrauli	92.8%
2019	CBSE (X)	Air Force School, Bamrauli	96.6%

SCHOLASTIC ACHIEVEMENTS

- Awarded a **branch change** by the institute after the first academic year for **exceptional academic performance** (2022-2023)
- Cleared the **National Defence Academy and Naval Academy Examination - II (NDA), 2022**

WORK EXPERIENCE

Geospatial Visualization of Water Samples and Water Quality Indexes | Prof. Shankar Pravesh | SURGE Ongoing

Objective	The project aims to Assess Water Quality across the Indian mainland using an extensive dataset of over 61,667 entries from more than 30,000 water bodies , focusing on 22 physio-chemical parameters
Approach	Utilizing data preprocessing, geospatial analysis, and classification models, the project analyzes Spatial and Temporal Water Quality Distributions and evaluates water suitability for drinking, based on WHO and BIS guidelines
Result	The Random Forest Classifier accurately classified water suitability for drinking, while Fuzzy Logic Models revealed the geographical and temporal dynamics of water quality parameters across India

LEADERSHIP POSITIONS

Coordinator, Fine Arts Club, IIT Kanpur | Budget- Rs. 60,000/- May'24 - present

Leadership	Worked with a team of 3 fellow coordinators and managed 28 secretaries to step up the club's working and reputation
Initiatives	Organized a farewell for 250+ graduating students of Batch'24 with vibrant celebrations and heartfelt moments Conducted a watercolor workshop for 30 participants with a renowned artist, enhancing artistic skills
Impact	Increased the club's reach and successfully encouraged individuals with an interest in art to pursue their passion

Senior Team Member, Team Aerial Robotics, IIT Kanpur May'24 - present

Leadership	Worked with a team of 14 fellow members to step up the team's working and reputation across campus
Initiatives	Managed finance and social media for the aerial robotics team, contributing to Sponsor Outreach and Engagement Created team brochures and evaluation reports, successfully securing sponsorships and documenting team progress
Impact	Generated significant campus impact, resulting in over 250 applications for junior team member positions

PROJECTS

Ticket Booking System | Self Project Jan'24 - Feb'24

Objective	Developed an interactive Movie Ticket Booking System using Python and MySQL for seamless bookings
Approach	Connected Python to MySQL for handling CRUD operations using MySQLdb library , implemented user-friendly menus for interaction, and utilized PrettyTable for displaying records in a structured and readable format
Result	Successfully developed and implemented a secure and efficient system with comprehensive features for booking tickets

Circular Knitting Machine | TA212, Manufacturing Process II, IIT Kanpur Jan'24 - May'24

Objective	Designed and fabricated a Circular Knitting Machine with Arduino for innovative textile manufacturing
Approach	Conducted testing and iterative refinements throughout the development phase to enhance the prototype's functionality and performance, focusing on achieving unparalleled levels of precision, reliability, and operational efficiency
Result	Ranked top three in Manufacturing Process Lab, demonstrating teamwork and mechanical design expertise

TECHNICAL SKILLS

- Programming Languages: C, C++, Python, HTML, CSS, JavaScript, MySQL, Jupyter Notebook
- Libraries and Utilities: Matplotlib, NumPy, Pandas, L^AT_EX, Fusion 360, AutoCAD, Keras, Tensorflow, Sklearn, Git, MS Excel

EXTRA-CURRICULAR ACTIVITIES

Entrepreneur	Secured II position in Entreverse 2022 , organized by E CELL IIT Kanpur, for pitching a startup idea "Ride-in-Campus" targeted at campus residents
Cultural	Competed in Inter IIT'06 - Costume Design Competition , creating a paper costume
Sports	Earned Green-1 Belt in Taekwondo , with a double belt promotion from White to Green Belt Started playing Volleyball in college and successfully completed a 45-day summer camp
Managerial	GDC Secretary: Collaborated with 25 secretaries of the club to enhance team reputation; organized Game Jams, delivered a game development lecture , and showcased games at Pavilion 2023