

ACADEMIC QUALIFICATIONS

Year	Degree/Certificate	Institute	CPI/%
2020-2024	B.Tech(Materials Science & Engineering)	Indian Institute of Technology Kanpur	6.9/10.00
2019	ICSE(XII)	St. Basil's School, Basti	78.6%
2017	ICSE (X)	St. Basil's School, Basti	87.0%

ACHIEVEMENTS

- Selected as one of the **top 10** contributors of Competitive Programming domain in GirlScript Winter of Contributing
- Secured global rank **96** among **16221** participants in **February Long 2022 - I** contest on **CodeChef**
- Completed an **Engineering Virtual Program** offered by **Goldman Sachs** on Forage that aimed to crack leaked password database
- Won **4** trophies and **14** badges in **Microsoft Azure Data Fundamentals** as a part of CLOUD SKILLS CHALLENGE
- Secured **All India Rank 6208** in **Joint Entrance Examination Advanced 2020** among the **2.5 Lakh** shortlisted candidates

WORK EXPERIENCE

Swarm Robotics Internship | Intelligent Guidance and Control Lab

(Jun'22-Aug'22)

Mentor: Prof. Mangal Kothari, Department of Aerospace Engineering IIT Kanpur

Objective	Implementing a Ground Control Station for operating multi drone systems as a part of swarm application
Strategy	<ul style="list-style-type: none">Intensive review of ROS wiki document to understand and set-up ROS using Windows Subsystem for Linux(WSL2)Successfully launched the Gazebo, RViz and Turtlesim Simulators in Ubuntu 18.04.5 on WindowsReview of thesis on Development of Ground Control Station for Swarm Applications to understand working of GCS
Impact	Creating User Interface of GCS for Swarm Applications providing functions like TakeOff, Landing, and Mission Planner

Flutter App Developer Internship | Ekai Shop Technologies

(Jan'22-Mar'22)

- Developed a **flutter-based** cross-platform application for managing user onboarding and maintaining brand profiles
- Utilized **various widget** options, including buttons, app bar, cards, and bottom navigation bar from the **materials design** theme

Open Source Contributor | GirlScript Foundation

🌐 | (Sep'21-Dec'21)

- Contributed to GirlScript Winter of Contributing aims to create **world's largest multilingual** content repository
- Developed documentation consisting of **tutorials and code** relevant to the domain of **C, C++ and Competitive programming**

KEY PROJECTS

MiniURL-Generator | Self Project

🌐 | (Jun'22-Jul'22)

Objective	<ul style="list-style-type: none">Generated an extremely short and long-lived custom URL that redirects the user to the original long URLRedirected URL should be fast, and the service should expose REST APIs to integrate it with third-party applications
Strategy	<ul style="list-style-type: none">Generated short URLs using random numbers, base conversion, and MD5 hashing techniquesUsed Maps and Key Generation Service to generate unique, collision-free, random seven-letter strings
Impact	Documented code that converts long URLs to mini URLs making it easy to type and sharable without word limits

App Development for Crystallography and Material Science related phenomena | UGP

🌐 | (Aug'22-Ongoing)

Mentor: Prof. Shikhar Krishn Jha, Department of Materials Science and Engineering IIT Kanpur

- Developing application for **visualization of crystallographic planes and lattices** that materials science students will use worldwide
- Implemented **stateful widget** to create an application with multiple screens using widgets such as Slider, TextView, Chips from **flutter**

Introduction to Deep Learning and its Applications | STAMATICS, IIT Kanpur

🌐 | (Mar'22-Jul'22)

- Utilized **data mining** techniques for analysis, visualization, preprocessing and executed linear algebra problems using python libraries
- Worked on **Recurrent Neural Network (RNN)** involving **LSTM** using **Tensorflow** to predict results from the **MNIST** data set
- Implemented CNN-based **Deep Learning** Model on **CIFAR-10** dataset for classification task and achieved **96.87%** accuracy

Deep Dive Into Algorithms | Association for Computing Activities, IIT Kanpur

🌐 | (Apr'21-Jun'21)

- Deep-dived into basic to advanced **DSA concepts** such as STL, number theory, binary search, and various algorithms using C++
- Extensively implemented various algorithms in C++ and actively participated in **Codeforces contests** offered by mentors

TECHNICAL SKILLS

Programming Languages	Operating Systems & Softwares	Tools & Libraries
C, C++, Python, Java, HTML, CSS, JavaScript, \LaTeX	Windows, Ubuntu, Micro-Cap, ROS, AutoCAD, ImageJ	Android Studio, Canva, Git, Mailchimp, NumPy, Pandas, MatPlotLib, TensorFlow

RELEVANT COURSES

* Online Courses

Fundamentals of Computing	Probability and Statistics	Linear Algebra and Ordinary Differential Equation
Partial Differential equations	Communication Skills: Composition	Quantum Physics
Introduction to Electronics	Foundations: Data, Data, Everywhere by Google*	Python by University of Michigan*

POSITIONS OF RESPONSIBILITY

Manager Alumni Relations | Outreach Cell, IIT Kanpur

(Jun'22-Present)

Leadership	Leading a team of 20 Secretaries to work on various events aimed to strengthen Student-Alumni relations
Management	<ul style="list-style-type: none">Managed the Mock-en-Joy series involving mock internship interviews of 200+ students by 60+ IITK alumniInterviewed 10+ Distinguished Alumni and made publishable content for Distinguished Alumni Interview seriesOrganized talks and networking programs to provide career guidance and mentorship to students
Initiatives	<ul style="list-style-type: none">Conceptualized and executed campaigns such as #ThatsIITK and #AskIITK for prospective students of IITKProposed events including Department-wise Faculty Panel Discussions for increasing student-faculty interaction and Alum-side Chat for enhancing student-alumni relations for the entire campus community

President's Nominee | Animal Welfare Cell, IIT Kanpur

(Jun'22-Present)

- Representing the Gymkhana President in a committee that works toward **policy making** and welfare for the Animals on campus
- Working on initiatives such as sterilization drive for stray dogs on campus and conducting talks by experts in the animal welfare field