



Shreya Gupta

B.Tech – Computer Science and Engineering

Roll number: 22CS8096

Gender: Female

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Educational Qualification

• Graduation

SEM	1	2	3	4	5	6	7	8
SGPA	8.58	8	7.86	8.92	9.05			
CGPA	8.58	8.31	8.27	8.37	8.49			

• Higher Secondary & Secondary

Year	Degree/Examination	Institution/Board	CGPA/Percentage
2020	Class XII	CBSE	94.8%
2018	Class X	CBSE	93%

Academic Achievements

- Acquired **1st** position in the **Bizcup 5.0,2023** organized by Entrepreneurship Development Cell, NIT Durgapur.
- Completed **IBM Information Technology Fundamentals Certificate @IBM SkillsBulid.**
- Completed **IBM Data Fundamentals Certificate @IBM SkillsBulid.**
- Completed **IBM Working in a Digital World: Professional Skills Certificate @IBM SkillsBulid.**
- Participated in **SDV-Self Driving Vehicle Workshop 4.0,2023** organized by SAE and IEEE, NIT Durgapur.
- Completed **NPTEL** Course for **Programming in Modern C++.**
- Geekster Certificate of Completion for **Complete Git and GitHub** Course
- Core Employability Skills** --Wadhvani Foundation by FFE
- Certificate of Completion of the **FLY-Scholar** (Finding the Leader in You - Scholar) program by FFE

Work Experience

ACM SUMMER SCHOOL Attendee, PCCoE

Completed

Compilers for AI/ML by NVIDIA (17th June'24 to 28th June'24) | [GitHub Link](#)

- Hosted by Pimpri Chinchwad College of Engineering (PCCoE), Pune, and sponsored by NVIDIA.
- Explored compiler fundamentals including scanning, parsing, semantic analysis, and code generation, with a focus on optimization techniques for AI/ML programs.
- Explored LLVM and gained hands-on experience working on **TCC** and converting a **DSL to C++.**
- Visited the NVIDIA office and experienced the office culture, gaining a dual perspective of both academia and industry.
- Engaged with experts including Professors **Dr. Uday Khedkar** and **Dr. Manas Thakur** from **IIT Bombay**, **Dr. Jyothi Vedurada** from **IIT Hyderabad**, **Dr. Uday Reddy** from **IISc Bangalore**, and **Dr. Girish Bharambe** and **Dr. Ramana Radhakrishnan** from **NVIDIA.**
- Delved into advanced topics such as data flow analysis, runtime management, and DSLs for AI/ML programs, enhancing skills crucial for leveraging modern hardware in AI/ML workloads.

ACM WINTER SCHOOL Attendee, DAIICT

Completed

Algorithms for Big Data and Machine Learning (16th Dec'24 to 24th Dec'24) | **DAIICT, Gandhinagar**

- Hosted by Dhirubhai Ambani Institute of Information and Communication Technology (DA-IICT) with renowned

- speakers from IIT Gandhinagar, IIIT Delhi, Krea University, University of Oklahoma, and DA-IICT.
- Explored memory-efficient data structures like Bloom filters, Count sketches, kd-trees, and locality-sensitive hashing.
- Studied randomized algorithms, including Chernoff Bounds, Johnson-Lindenstrauss Lemma, and random projections.
- Gained expertise in low-rank approximations, randomized least squares regression, and L1/Lp regression techniques.
- Worked on graph algorithms such as clustering, partitioning, and streaming problems with real-world applications in complex networks and bioinformatics.
- Focused on sampling, sketching, and coresets techniques, including performance guarantees and applications in big data problems.
- Attended lectures that challenged critical thinking and practical applications, delivered by professors including **Dr. Anirban Dasgupta (IIT Gandhinagar)**, **Dr. Lakshmivarahan Sivaramakrishnan (University of Oklahoma)**, and **Dr. Supratim Shit (IIIT Delhi)**.
- Enhanced understanding of modern algorithms, big data challenges, and their applications in machine learning and artificial intelligence.

Encryptix Intern | Virtual | [GitHub Link](#) C++ Programming

Completed

- Completed a 1-month virtual internship advancing C++ programming through practical projects:
 - Developed interactive applications including a number guessing game, calculator, tic-tac-toe, and to-do list manager, showcasing expertise in problem-solving, modular programming, and user-centred design using advanced C++ concepts.

Skills Summary

• Technical Skills:

- Programming Languages:** C|C++|Python|Java|Assembly Language|SQL
- Tools:** MS Excel|Jupyter Notebook|VS Code|Canva|GNU Simulator
- Others:** Git|Linux (Ubuntu)|IBM|Windows

• Non-Technical Skills: Content Writing|Communication|Leadership|Event Management

Projects

• Leo Voice Assistant

Python | [GitHub Link](#)

- Developed a voice-controlled assistant using Python, leveraging libraries such as pyttsx3 for text-to-speech, speech recognition for converting speech to text, Wikipedia for retrieving information, web browser for website navigation, os for file handling, and smtplib for sending emails.
- Implemented key functionalities including:
 - Voice Commands: Recognizes and processes voice commands to perform actions such as searching Wikipedia, opening websites (e.g., YouTube, Google), playing music from a specified directory, and telling the current time.
 - Email Integration: Allows sending emails by capturing voice input for the email content and using SMTP for delivery.
 - Dynamic Responses: Provides personalized greetings based on the time of day and responds to user commands with appropriate actions.
- Enhanced user experience by integrating error handling for unknown commands and issues during speech recognition.

• Personal Portfolio Website

HTML/CSS | [GitHub Link](#)

- Designed and developed a personal portfolio website to showcase my skills and projects.
- Implemented a clean and responsive design for optimal user experience across devices.
- Included sections for about me, projects, and contact information.
- Integrated smooth navigation for easy exploration of portfolio content.

Positions of Responsibility

- Senior Coordinator @Entrepreneurship Development Cell, NIT Durgapur.**
 - Fostering an entrepreneurial culture through diverse workshops, events and networking activities.
 - Developing and mentoring compelling materials in the content writing domain to engage, inform, and inspire our entrepreneurial community.
- Organizing Committee member @E-Summit 2023, and 2024(offline).**
 - The second largest E-Summit of its kind in eastern India organized by the Entrepreneurship Development Cell, NIT Durgapur.
- Mess Committee member @Hall 13, NIT DURGAPUR**
 - Serving as a Mess Committee member in the hostel, overseeing meal planning, quality control, and addressing students' concerns to ensure a satisfactory dining experience

Extracurricular Activities

- Conducted & hosted **Hult Prize OnCampus** Event in NIT Durgapur.