



SIDDHARTH GUPTA

Roll no. 2021355 | siddharth21355@iiitd.ac.in

DOB: March 31, 2003

Address: C-1/64, Safdarjung Development Area,
New Delhi - 110016, India



Education

IIIT Delhi

B.Tech, Computer Science and Design
2021 – Present

CGPA: **9.15**

(Till 4th semester)

The Mother's International School, New Delhi

Class XII (CBSE)
2020 – 2021

Percentage:

95.8%

The Mother's International School, New Delhi

Class X (CBSE)
2018 – 2019

CGPA: **10**

Skills

Expertise Area:

Data Structures and Algorithms, Competitive Programming, Object Oriented Programming, Machine Learning, Human Computer Interaction, Visual Design, UI/UX

Programming Languages:

C++, C, Java, Python, Pytorch, Assembly Language, HTML, CSS, Javascript

Tools and Technologies:

VS Code, IntelliJ IDEA, libGDX, Linux, MySQL, Adobe - Illustrator | Photoshop | Lightroom | Premiere Pro, Blender, Figma, Canva, GitHub

Technical Electives:

Computer Science Electives:

Introduction to Programming(Python), Data Structures and Algorithms, Computer Organisation, Advanced Programming(Java), Operating Systems, Digital Circuits, Linear Algebra, Probability and Statistics, Multivariate Calculus, Database Management Systems, Analysis and Design of Algorithms

Design Electives:

Introduction to Human Computer Interaction, Design Drawing and Visualisation, Visual Design and Communication, Design Processes and Perspectives, Design of Interactive Systems, Prototyping Interactive Systems

Work Experience

INSPIRE Internship Programme

Department of Science and Technology, Govt. of India

Selected amongst top students in Class X based on high academic excellence.

(Dec, 19)

Projects

Database Management System for Online Retail Store using MySQL | [Git](#)

Developed an end-to-end Database Application. Created an ER Diagram incorporating functional requirements and constraints for different users and converted it to a relational model. Implemented triggers, transactions and queries in MySQL. Developed a front end command line application in Python.

Team Size-2

(Jan,23 – Apr,23)

Deep Neural Net based Image Classifier | [Link](#)

Created and trained a VGG model on Animals with Attributes Dataset using Pytorch and achieved a test accuracy greater than 95 percent, trained on GPU using CUDA. Implemented a Convolutional Neural Network, used Transfer Learning and Adam optimizer to minimize the cross-entropy loss.

(May,23)

Interactive Personal Website Link Git	(Mar,23 – Apr,23)
Designed and developed a website using HTML, CSS and JavaScript. Used JavaScript libraries anime.min.js, jquery.min.js and fluid.min.js. Used Adobe Photoshop and Illustrator to create visual elements. Wrote code for creating UI elements like image slider, expanding images on hover, layer animations for different tabs.	
Inclusive Hands-free Game Controller for differently abled users	(Feb,23 – Mar,23)
Developed an innovative hands-free game controller which included a novel, custom tilt sensor headgear which could be used by individuals by tilting their heads in various directions. Also developed pedal based controls. Used machine learning models to train for audio commands using Teachable Machine.	
Game Development in Java Git	Team Size-2 (Nov,22 – Dec,22)
Developed a Tank warfare desktop game application in Java using libGDX framework. Designed the UI using Adobe Illustrator and Canva.	
FutureBuilder-Application for Placement Cell in Java Git	(Sept,22)
Used Object Oriented Programming concepts for the implementation of workflow of the Placement Cell of a university. Constructed classes and member functions for different users like students, admins and companies	
FLIPZON-Online Shopping Portal Application in Java Git	(Oct,22)
Used OOPs to create a modular online shopping application. It supported a product catalogue, deals and discounts, and a shopping cart.	
Design and creation of a 3D model of a hyper-personalised lamp using Blender Link	(Feb,23)
Designed the lamp using procedural modeling and geometry nodes on Blender. The lamp takes inspiration from the structure of trees. To fulfil the purpose of keeping it surreal, the colours used are not conventional tree colours, neither are the leaves.	

Positions of Responsibility

Organising Team for 11th Convocation, Media Service Committee of IIITD	(Oct,22 – Nov,22)
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Awards and Achievements

- **Dean's Award** for **High Academic Achievement** in the 1st Year, IIIT Delhi
- Achieved **highest CGPA** in Computer Science and Design Batch at IIIT Delhi
- **Best All-rounder**, Pranav Gupta Memorial Award, The Mother's International School
- Selected for **DST INSPIRE internship** programme 2019 from amongst top students in Class X based on **high academic excellence**
- Selected for Round1 of **Google Code Jam 2022**
- **Received First grade** in levels 1 through 4 exams of Akhil Bhartiya Gandharva Mahavidyalaya Mandal, equivalent to Final Year Diploma in **Music (Sitar)**
- Secured **second** position in zonals, National Inter-college Crossword Expedition **NICE 2023**

Interests and Hobbies

- Indian Classical Music - Sitar - Learnt Sitar from the Ravi Shankar Institute of Music and Performing Arts
- Coding on Codeforces and Codechef
- Culinary Arts
- Film making and Movies
- Literature and Poetry
- French language

Declaration: The above information is correct to the best of my knowledge.

SIDDHARTH GUPTA

Date: July 9, 2023