

Vivaswan Nawani



CGPA: 8.07 (till 6th Semester)

Percentage: 89.8%

Percentage: 90%

(Jun, 24 - Present)

Team Size: Individual

2021217, Email: vivaswan21217@iiitd.ac.in DOB: 5th Oct, 2003 | Github | LinkedIn

Address: Y-30, Hudco Place Extension, New Delhi-110049

Education

Indraprastha Institute of Information Technology, Delhi

B.Tech(ECE)

2021 - 2025

Delhi Public School, RK Puram, Delhi

CBSE

2018 - 2020

Scottish High International School, Gurugram, Haryana

ICSE

2016 - 2018

Skills

Data Structure and Algorithms, Object Oriented Programming, Machine **Expertise Area**

Learning, Computer Vision, Web Development

Programming Language

C/C++, Java, Python, SQL

Tools and VS Code, Intelli J, Miro, Figma, Latex

Technologies Git, HTML, CSS, MySQL

Technical Data Structure and Algorithms(C/C++), Algorithm Design and Analysis, **Electives**

Advanced Programming (Java), Computer Organization, Operating

Systems, Computer Architecture, Machine Learning, Computer Vision

Work Experience

Digital India Corporation, MEITY(Industrial)

Guide: Mr. Rajneesh Sharma

Tech Stack: XAMPP, Laravel, PHP, MongoDB

• Contributed to the Academic Bank of Credit project and enhanced website functionalities.

Gained experience in backend and frontend development, learned PHP, and worked with XAMPP and MongoDB.

Undergraduate Researcher at Theoretical Computer Science (Jan, 24 – Present) Lab, IITD (Research) Report Team Size: 2

Guide: Dr. Diptapriyo Majumdar

Explored novel algorithmic methodologies for fair allocation and division of resources in graph structures, addressing real-world challenges of equitable resource distribution among stakeholders.

Projects

Vector Borne Disease Prediction System - Github

(Aug, 23 – Dec, 23)

Guide: Dr. Jainenedra Shukla

Team Size- 5

Tech Stack: Python, NumPy, Pandas, Scikit-learn, TensorFlow, Seaborn, Matplotlib

- Built a robust model for early detection of vector-borne diseases using patient symptoms as input features.
- Studied and experimented with 7 different machine-learning models and conducted comprehensive testing and hyperparameter tuning.

Cycle Accurate Simulator for 5-stage CPU - Github

(Aug, 23 – Dec, 23)

Guide: Dr. Sujay Deb

Team Size- 4

Table Charles Cold Dethans

<u>Tech Stack</u>: C++, Python, Assembly Language

- Designed and implemented a detailed RISC CPU in C++
- Structured the code to simulate real CPU operations with an Assembler, Simulator, Instruction, and Data memory, utilizing data buses for data transfer within the CPU.

Memory Management System - Github

(Aug, 23 - Dec, 23)

Team Size- 2

Guide: Dr. Dhruv Kumar

<u>Tech Stack</u>: C++, System Calls, Data Structures

- Developed a custom memory management system using C++ and system calls for efficient memory allocation.
- Implemented a free list structure to manage and reuse free memory segments (holes), addressing fragmentation issues.

Game Galaxy - Github

(May, 24 – Jun, 24)

Personal Project

Tech Stack: Python, MySQL, Flask

Team Size- 5

- Developed an online Game retail Store using Database Management concepts.
- Implemented the game store as a CLI using embedded SQL and on a website using Flask.

Positions of Responsibility

Student Council Representative
Student Senate Representative
Btech, Mtech, and PhD Induction Organizing Committee Member
(Jun, 24 - Present)
(Jun, 23 - Present)

Awards and Achievements

- Commended by the internationally recognized Earth Saviours Foundation and Sahyog NGO for volunteering to educate underprivileged children and support the disabled.
- Awarded Distinction in Australian National Chemistry Quiz (Class 12th)

Interests and Hobbies

- Competitive Programming- Codeforces (1350 rating)
- Chess Active member of 65th Square since 2023.
- Reading- Enjoy diverse literature, including literary fiction, classics, thrillers, and nonfiction.

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

Vivaswan Nawani Date: July 7th, 2024