

Tanay Srivastava

stanay04@gmail.com • 9910334116

[LinkedIn](#) • [LeetCode](#) • [Github](#)



EDUCATION

DAV Public School, Vasant Kunj (2019-20): 94.8%

DAV Public School, Vasant Kunj (2021-22): 91%

BTech. (CSE-AIML), Manipal Institute of Technology, Manipal: 8.49 CGPA

TECHNICAL SKILLS

Programming Languages: C++, C, Python, JAVA

Others: Deep Learning, RNN and CNN, Parallel Programming(CUDA, MPI), SQL, Computer Vision

Web Development: HTML, CSS, JavaScript, jQuery, ReactJS, Tailwind, Bootstrap, MaterialUI

EXPERIENCE

Team Member | Robotics and Circuits

Aug 2022 - Present

- Created ROS2 simulations for robotic models and algorithms using Gazebo, tf2.
- Learned about various machine learning based path-planning and motion-planning algorithms.
- Cleared the first round of **eYantra (IIT-B)** by learning and using computer vision and vector calculus.

Student Intern | Adobe

Summer 2021

- Learned innovative tools from Adobe K12 applications like Adobe Spark, Premiere Pro, etc.
- Worked on presentation skills to highlight the importance of a product using tools like Figma and Premier Pro.

AWARDS AND ACHIEVEMENTS

Top 20 | AppLab Intra-university Hackathon

November 2023

- Designed a dynamic website using HTML, CSS, and JavaScript to provide personalized information.
- Collaborated effectively with team members to refine user experience and functionality, resulting in recognition among the top 20 projects in the AppLab IntraCollege Hackathon.

India Top 20 | School of the Month Challenge (Niti Aayog)

Aug 2020

- **3D-designed** innovative Lego-like block homes as part of a team of four.
- Demonstrated creativity and problem-solving skills in conceptualizing cost-effective and scalable housing solutions.
- **Collaborated with Russian students** under the **AIM-SIRIUS (Sochi) Programme** to develop a news aggregator and summarizer app. Participated in the **AIM-Sweden SHE-STEM conference**, engaging with Swedish delegates to explore and discuss advancements in STEM fields.

PROJECTS

TrafficGAN

October '25

- Designed and trained a Conditional **GAN** with spectral normalization and conditional batch norm to generate class-balanced synthetic traffic sign images for robustness against adversarial scenarios.

CPU vs GPU Performance for Real-Time Image Denoising and Feature Extraction

March 2025

- Optimized and compared CPU vs GPU performance for real-time image denoising and feature extraction using CUDA, achieving significant speedups in various computer vision algorithms.

Project Panorama

November 2024

- Developed a scalable image stitching pipeline using SIFT/ORB, RANSAC, and hierarchical clustering to generate high-quality panoramas with minimal distortion.

Intelli-Goal

April 2024

- Created a simulation of an **intelligent agent** to track a goal point in a 2D environment using various algorithms like **AStar** and Best First Search. Tracking is simulated using PyGame for better understanding.

ChatBook

November '23

- Developing a clean and organized chat application using **JAVA Sockets** for communication between clients and servers, JavaFX and CSS for the front end, and **MySQL** for **chat backups**.

Crime and Demography Analysis

November '23

- Performed **exploratory data analysis** for **identification and prediction of patterns** of crimes concerning different demographic attributes for a given population and region.

Weather App

June 2024

- Building a weather dashboard with **real-time updates** (OpenWeatherMap), responsive frontend design(using React and Material UI), **animations**(using Framer), and Firebase integration for **user authentication and database**.

POSITIONS HELD

Mentor - Photography Club

Team Member - Robotics & Circuits

Head Boy - DAV Public School, Vasant Kunj