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.