Progyan Das
Second Year Undergraduate
Department of Computer Science & Engineering
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Education

Degree	Institution	CPI/%	Year
B.Tech	IIT Gandhinagar	9.33	2020 onwards
Class XII	SKMS, Agartala (CBSE)	96.2	2019-2020
Class X	HCS, Agartala (ICSE)	96.4	2017-2018

Internships

- **Google Summer of Code @ Zulip Organization [June 2022 - Present]**
  - Working with Zulip-Terminal, adding features that are currently not present in the web-app to the terminal interface, making the codebase easier to read and contribute to by refactoring existing code, and making quality-of-life feature improvements wherever possible.
- **Summer Research Internship Programme (SRIP) @ IIT Gandhinagar[May 2022 - June 2022]**
  - Selected to work with Professor Neeldhara Misra to research on Fair Division and related problems in Computational Social Choice.
  - Working with Professor Nipun Batra on Bayesian Statistics and Probabilistic Machine Learning.
- **Software Developer, Automation System for Drone Swarms using AI, Government of India & DRDO [January 2022 - Present]**
  - Utilizing Reinforcement Learning to train an AI for controlling Drone Swarms in high-stakes environments.
  - Utilizing Systems Tool Kit, Unity, PyBullet, PyAero, to develop a robust system for simulating Drone Swarms in real-time.
- **Software Developer, Snapper AR, Necessario.in [December 2021 - January 2022]**
  - Worked in JavaScript, Bash, and Python to integrate GStreamer, Deepstream by Nvidia, V4L2 and JEELIZ WebAR into an Nvidia Jetson Nano module connected to an Arducam IMX477.
- **Student Mentor, Linear Algebra and Calculus, IIT Gandhinagar, [January 2022 - June 2022]**
  - Selected as one of three student mentors to help teach Linear Algebra and Calculus to first-year students in tandem with regular classes, on the basis of past record of academic excellence in the course.
  - Will be managing regular classes on the subject with the team for over 240 students in offline and online modes.

Projects

- **Analysis of Black-Scholes Equation for Analyzing Football Transfer Markets through Analytical and Numerical Analysis [October 2021]**
  - Ideated and helped spearhead an attempt to adapt the Black-Scholes equation for analyzing options pricing in volatile markets to the football transfer market.
- **CPU Emulator for Nintendo Entertainment System [April 2022]**
  - Wrote an NES CPU Emulator in C++ that could read and execute assembly-level instructions from an ROM for a course on Computer Architecture.
- **Simulation and Numerical Analysis of the n-body Problem [April 2022]**
  - Wrote a simulation in vPython for simulating the gravitational interaction between multiple massive objects with the Euler and Runge-Kutta methods for solving first-order differential equations.

Achievements

- Recipient of the Cargill Global Scholarship, awarded to 10 students across India and 70 across the globe for excellence in academics and leadership.
- Secured a place in the Dean's List for every time it has been published for my batch, with a CPI of 9.79 at the end of my first year.
- Winner of IIT Gandhinagar's annual hackathon, Hackrush 2022, Machine Learning.
- Recipient of IIT Gandhinagar's Scholarship for Academic Excellence, for topping my batch.