Pursuing a minor in Computer Science & Engineering.

ACADEMIC ACHIEVEMENTS

•	Achieved	All-India	Rank 285	out of	173,000	participa	ants in \mathbf{JEE}	$(\mathbf{Advanced})$	2019	(May)	2019)
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• Awarded a Gold Medal in the Dr. Homi Bhabha Balvaidnyanik Competition

(May 2016)

PROFESSIONAL EXPERIENCE

Quantitative Research Intern | AlphaGrep Securities Pvt. Ltd

(May-Jul 2022)

- Secured the internship via apping, within **two weeks** of my Schengen **VISA rejection** for former internship offer at **Optiver Services B.V.** acquired through the institute placement cell
- Developed a data-analysis tool in python used by a team of 10 members to design strategies on generated alphas by plotting backtest results modifiable by interactive sliders
- Researched and backtested 50+ designed and improved alphas using the developed tool
- Explored methods to detect and capitalize on market moves brought by NSE index earnings

Full-Stack Intern | MeTripping Technologies Pvt. Ltd

(May-Jul 2021)

- Developed a **web scraping spider** using the **scrapy python library** to scrape weather data daily, of over **20 thousand** travel destinations, **without expenses** on the websites API calls
- Designed a **Django Backend application** along with **Angular Frontend APIs** to communicate and log various user interactions such as clicks, selects, promo code entries amongst others
- Built a Backend API in python, to provide updated weather data for a weather landing-page

TECHNICAL PROJECTS

Parampariyam | Course Project

(Apr-May 2022)

Guide: Professor Gaurav Kasbekar | Electrical Engineering Department, IIT Bombay

- Probed the Bitcoin white paper to conceptualize and design our own file transaction blockchain
- Introduced **node hierarchies** to ensure a private network and **mathematical analysis** backed **transaction tax** to manage the circulating supply of the networks parampariyam coins
- Implemented the revamped blockchain in python using django-framework and **cryptodome libraries** with the **versatility** to include **additional features** above the originally devised ones

Autonomous Ball Collector

(Aug 2020)

(2019)

Guide: Unmesh Mashruwala Innovation Cell, IIT Bombay

- Worked in a 5 member team and built a fully functional autonomous robot in Gazebo-ROS simulation software, which was capable of gathering green and simultaneously discarding red balls
- Made use of LIDAR, Camera and SONAR sensors to perceive the simulated environment and performed the appropriate action, on the basis of OpenCV and ML techniques

POSITIONS OF RESPONSIBILITY

Teaching Assistant | Department of Mathematics, IIT Bombay

MA 109 (Calculus I) (Nov-Dec 2020) & MA 205 (Complex Analysis) (Aug-Sep 2021)

- Responsible for **conducting weekly tutorial sessions** for a batch of 40+ juniors, clearing conceptual doubts through personal interaction and helping them cope with their first online semesters
- Assisted the Professors in **planning course logistics** and preparing tutorial solutions

EXTRACURRICULARS & MISCELLANEOUS

•	Emerge	ed victorio	ous ir	the	football	tou	rnar	\mathbf{nent}	held	as a	part o	of A	AlphaGrep Sports Meet	(2022)
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- Successfully completed **80 hours** of training in **swimming** under the **NSO** programme (2020)
- Developed a **mobile controlled robotic car** in a team of four and successfully navigated a challenging **obstacle course** as part of the **XLR8** competition
- Awarded the **Gem of the Year** award in school, for proving to be a **symbol of excellence** (2017)
- Awarded as **best speaker** in the 1st school simulated Model United Nations Conference (2016)
- Speaker in the Frank Anthony Memorial All India Inter School Debate Competition (2015)