Prasann Viswanathan Iyer   190070047
Electrical Engineering   **B.Tech.**
Indian Institute of Technology Bombay   **Gender: Male**
    DOB: 11/2/2001

Examination	University	Institute	Year	CPI / %
Graduation	IIT Bombay	IIT Bombay	2023	9.4

Pursuing a minor in **Computer Science & Engineering**.

ACADEMIC ACHIEVEMENTS

- Achieved All-India Rank **285** out of 173,000 participants in **JEE (Advanced) 2019**   *(May 2019)*
- 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)*
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

- Emerged victorious in the **football tournament** held as a part of AlphaGrep Sports Meet   *(2022)*
- 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   *(2019)*
- 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)*