

**ADIT AGARWAL**

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## **EDUCATION**

**Indian Secondary Certificate (ISC)**  
**Jamnabai Narsee School**  
**Grade 11: 89%**

**Apr 2020 – Mar 2022**  
Mumbai, India

**Indian Certificate of Secondary Education (ICSE)**  
**Hiranandani Foundation School (HFS)**  
**Grade 10: 97.2% Grade 9: 86%**

**Apr 2012 - Mar 2020**  
Mumbai, India

## **ACADEMIC HONORS**

- 97.2% ICSE Board Examinations
- General Proficiency for 7 consecutive years for all round Academic Excellence.
- Governor's Gold Award Scholar's Badge
- Scholar's Badge for Exceptional Performance in Academics and extracurricular activities

## **INITIATIVE & PERSONAL PROJECTS**

### **COVID VACCINE TWITTER BOTS | May 2021 - Present (10hrs/week approx.)**

- Programmed twitter bots that tweet about COVID vaccine availability in 6 major Indian cities by scraping government sources every minute, thereby helping people book slots. Received over **0.75 million impressions and around ~1500 followers**. <https://linktr.ee/covidvaxind>.
- Tweets and articles about the bot were published in city and national newspapers. Took **feedback** and updated the bot to add new features as requested.

### **INTERACTIVE CONNECT4 BOT | May 2020**

- Studied college coursework from **CS 4700(Cornell) & CS440(UIUC)** available online for introduction to AI. Used concepts to develop an interactive playable **Connect4 game** using AI algorithms like **minimax** and alpha-beta pruning(<https://aditagarwal.com/connect4>)

### **OBSTACLE AVOIDING SELF DRIVING CAR | May 2019**

- Reviewed coursework from **ECE 110(UIUC)**, read guides online and saw videos on YouTube in order to build a model of a self-driving car using **Raspberry Pi Arduino**, motors and light sensors.

### **PERSONAL WEBSITE ([aditagarwal.com](https://aditagarwal.com)) | March-June 2020**

- Self-studied and learned web development for **100+ hours** on Coursera, w3 schools and YouTube to develop <https://aditagarwal.com> using languages like **HTML, CSS, JS, PHP** and libraries like jQuery.

### **PRICEFINDER CHROME EXTENSION | June - July 2020**

- Developed a Chrome extension (HTML, JS) and hosted web scraping system (Python, Flask) to scrape contents from e-commerce sites to find best deals for a particular product. <https://github.com/adit294> - github for code of the above projects
- Published articles regularly on personal website and medium on technology, science and book reviews.<https://medium.com/@aditagarwal29> (Nov 2019- Present)

## **WORK EXPERIENCE**

### **PROJECT INTERN | GULF OIL LUBRICANTS | Mumbai | March-April 2021**

Product and business model development for Gulf Oil to emerge as a major player in 2&3 wheeler Electric Vehicle charging.

- Compiled extensive research pertaining to the types of chargers available in India for leading EV brands.
- Communicated with multiple dealers to collect detailed information about their chargers.
- Surveyed over 200 people to draw insights regarding the ideal charger for the Indian market. Prepared a report on the same

### **RESEARCH INTERN | Under Prof. Hari @University of Illinois Urbana Champaign | September- Present 2021 (Ongoing)**

- Working with a team of 4 undergraduates, Asst. Professor of advertising Ewa Maslowska and Professor Hari Sundaram of CS to build a website that allows individuals to create a portfolio and collectively donate to NGOs in India for COVID relief. The research question is to find out how information can be best presented to compel visitors to donate.

## **PUBLICATIONS**

### **HTML, CSS, Hosting and SEO | Nov 2020- Present**

- Wrote a guide on web development covering
- Made sections available online for free on GitHub and Medium and distributed copies to students at a Non-profit (Elevate the Future, Maryland)

## COMMUNITY SERVICE

### **COORDINATION & MANAGEMENT, Oorjan and Vatsalya Trust Orphanage, Mumbai, India | Sept-Oct 2020**

- Coordinated the installation of 12kW roof top solar system at the trust; Worked with IOT; Enough savings generated to provide for 7 kids every month.

### **LEAD INSTRUCTOR CS & ASST INSTRUCTOR BUSINESS, ELEVATE THE FUTURE, Maryland, USA | Aug - Oct 2020**

- Tutored a class of 40 middle - high schoolers from all over the world in HTML, CSS and web dev as the CS instructor.
- Tutored basics of Economics, everyday finance, business factors and planning as asst. business instructor.

### **MENTOR - DEBATE & MUN, SPARK A CHANGE, Mumbai, India | Apr 2020 - June 2020**

- Spark a Change is one of Mumbai's largest NGOs. Taught underprivileged children 10hrs/week and helped them develop skills in debating and MUNning, teaching them about public speaking and formal procedures of the United Nations.

### **STUDENT VOLUNTEER, CMCA, Mumbai, India | Apr 2016 - June 2018**

- Led campaigns on roads and intersections at Powai, Mumbai creating awareness for cracker free and eco-friendly Diwali

## LEADERSHIP ROLE

- Managed a team of three to expand vaccine bots to more cities, market it and take feedback from users. Reached out and worked closely with NGOs and Organizations like Pan IIT.
- Head chair** of UNHRC at AWS MUN (Jamnabai) of 40+ delegates. Led team of 3 vice chairs.
- President** of school(HFS) cyber club with 40+ students as part of which we made multiple CS related projects and spread awareness about cyber security.
- Vice President Rotary Club** @HFS — worked to help make clean water more accessible
- Took an initiative to write a guide for web development and donate copies to students at ETF

## ISC RESEARCH PROJECTS

- Physics:-** Conducted 6 months of research study on **particle accelerators**. Analyzed recent findings, compiled information including use of **HTCondor** at CERN, new research by Prof.Mitesh of Imperial College and its utilities in quantum computing and healthcare.
- Mathematics:-** Compiled studies on **Bayesian models** and its applications in **Computer Vision and Machine Learning**.

## EXTRACURRICULAR ACTIVITIES

### **Model UN, Debate and Drama**

- Model UN** - Once on the Executive Board, Twice on the Secretariat. 1 x best Delegate, 5 x High Commendations, 2 x Special Mention, 2 x Verbal Mentions.
- Inter house debate 1st runner up 2019
- Shakespearean Monologue – To be or Not to be Winner 2020
- Played major character role at the HFS annual concert.
- Actively took part and won at inter and intra school workshops, elocutions and debates.

### Olympiads

- Meritorious performance at Digital technologies & Mathematics Olympiad held by University of New South Wales
- Qualifying score at Zonal Informatics Olympiad 2020
- Among 300 qualified participants for RMO out of 10000 test takers.
- National qualifier at Xpress Math and Spelling Bee
- 2nd prize at website development at Interschool Championship-Gizmo Geeks

**Eumind Student Exchange Program 20'** - Student cultural exchange program. In charge of video editing and head of IT. Selected to be a part of an exclusive cohort of 20 from 300.

## SPORTS


- Player in school (HFS) Table Tennis Team | Apr 2017 - June 2019
- Player in school (HFS) Soccer Team | Apr 2017 - June 2019
- Squash, cricket and tennis for leisure
- Hobby- Trekking, hiking

## COURSES

- Masterclass by UBC - **Business & Management for Future Leaders**
- Math Problem Solving Session with **Prof. Jeff Anderson - University of Waterloo**
- HAROUN EDUCATION VENTURES BUSINESS & FINANCE PROGRAM-** Course in basics of business development, finance, marketing, pitching, patents, copyrights, trademarks and more

  
Ms. Teji Varghese  
Academic Guidance Counselor



  
Adit Agarwal  
Science 12F