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**EDUCATION**

Amity International School Noida **Grade 1-Present**

Physics, Chemistry, Mathematics, Computer Science, English

**ADVANCE PLACEMENT**

AP Calculus BC: 5

AP Calculus AB (subscore): 5

**ONLINE COURSES**

* **Completed ‘The Fundamentals of Digital Marketing, by Google Grade 11**
  + Learnt fundamental concepts of digital marketing
  + Discussed various strategies to increase user involvement in particular sites and thus increase profit
  + Used social media to test learnt techniques
* **Completed CS50, by Harvard University on edX Grade11**
* Underwent a year-long intense self-paced course by Harvard university introducing me to the art of programming by teaching languages and frameworks like flask, C[including pointers], python, HTML, CSS, and JS and designed encryption devices, Snapchat filters, stock websites, music apps, data management systems, short films and much more; Earning a 100 on each assignment
* **Scholar and Developer, Inspirit AI Grade 12**
* Selected Scholar & Developer at inspirit AI, learnt fundamentals of AI, and ethical issues related to the same. Built & trained an AI model that can detect pneumonia in patients using x-rays images with an accuracy of 85%+ using technologies such as tensor flow, and scikit; winning a 15$ amazon gift card for best presentation, <https://bit.ly/3DR5aIO>
* **Robotics explorer Grade 12**
* Began my exploration of Arduino, wifi shields, and centrifugal pumps motors through this robotics explorer @playto labs and designed several projects such as a disco light, alarm clock, automatic streetlights, thief alarm, self-driving car, rainwater harvesting systems and much more

**LEADERSHIP RESPONSIBILITY**

**Founder, Small steps bring changes Grade 11-12**

Created a platform to allow schools and NGOs to keep a count on their attendance and manage logistics for receiving food donations with an aim to reduce food wastage

* Created a website for this initiative by using Python and C
* Collaborated with 30 NGOs and 5 government schools across India
* The mid-day helpers is a scheme designed to complement the mid-day scheme.
* Volunteer and help NGOs in preparing, transporting and serving food to the children of government foods

**Girls Who Code Grade 11-12**

**Initiated another vertical under Small Steps Bring Change to teach girls how to code**

* Collaborated with over 20 schools across states, where our volunteers go and help girls learn to code.
* Taught tools like word, exploring browsers, and excel along with coding languages like C, C++, Python, HTML etc.
* Conducted over 30 fundraisers and organized garage sales, performed face painting, organized games to repair the computer labs

**Founder, Open book Grade 12**

* Designed a platform where people can digitally rent & borrow books. It is an online library rental service that provides a unique reading experience to book lovers with a wide range of books within close vicinity. Over 300 books are rented every month through the platform with a minimum rental. We also organize online reading sessions with schools.

**Designer and VP of field Operation, DIG-IT Grade 12**

* Designed an interactive website for dig-it, where users have a forum to discuss issues, a platform for clubs to conduct meetings
* Helped in organizing meetings in schools where we taught AI to students (both free and discounted training availabl**e)**

**Designer and founder, ‘Healthify’ Grade 12**

* Designed ‘Healthify’ a platform where patients are reminded to take medicine, find their current location, locate hospitals near them, book appointments, and video consultation can be achieved

**Member, Entrepreneurship Club Grade 11-12**

* Attended weekly sessions and participated in discussions to improve the club activities
* Learnt characteristics of entrepreneurs, from several speakers who were pioneers in their fields.
* Read and discussed blog articles, journals and theories written by Economic legends like Adam Smith and Warren Buffett
* Understood financial costs and losses of start-ups through various case studies such as that of Zomato

**RESEARCH PROJECTS**

**Outside School**

* Researched and authored a paper on Grain Testing Grade 11-12
  + In order for the processing to commence we need to place grain in the allotted area in the prototype. Then using a micro-camera, the image of the grain is taken. This image is sent to the program wherein analysis begins. The user can then adjust the HSV values for proper contouring. The program then measures the height-to-width ratio alongside the volume in pixels using mathematics and the cv2 library. As the image only covers objects presented in the allotted area and the allotted area is of area 1cm2, we can calculate the relation between pixels and measurement in cm. The program converts all measurements to cm. This is followed by the use of boundary points to find the texture of the grains. Next, the moisture content is measured: The resistance of the grain between two metallic electrodes can be used to determine the moisture content. We tested the grain's electrical resistance after sandwiching it between two electrodes. The resistance falls off as the moisture content rises. This technique is similar to the relative moisture testing method, with the exception that the resistance is calibrated in terms of the grain's water content. Then using an ML model, combining all such factors we determined grain quality and whether it should be stored and in what conditions

**In school Grade 12**

* Researched and performed experiments to find the foaming capacities (under Mrs. Shaloo Purohit) of different soaps and the effect on their foaming capacities with the addition of various chemicals like sodium carbonate

**Competitions & Workshops**

* Odyssey of the mind (Grade 11-12): Participated nationally in the odyssey of the mind where i built a car running on potential energy along with acting in a play to demonstrate the abilities of the car such as handling speed bumps, moving through mazes etc.
* Hardware Competition (grade 12): Participant in the hardware competition by DPS RK Puram with over 30 teams ranking in the top 8
* ‘Code buster’ (grade 12): Qualifying the theory round where only the top 8 teams qualified (out of 30teams), followed by a hackathon where we had to solve several problems using pythons such as the formation of different number patterns, virtual rangoli's and cyphers
* Unplugged 1.0 (grade 12): Won 3rd rank, over 15 schools participating we (group of 2) built a website in a short span of 1 week without using technologies like a tailwind, and templating. Designed an online management system, and platform to hold meetings etc.
* ‘Cryptrick’ (grade 12): Ranked third with over 40 teams participating; Solved over 6 riddles in the online round involving subjects such as art, mystery novels, knowledge of search engines, and songs by artists such as Weeknd, and Taylor Swift followed by one of the fastest completion of 11 riddles in the offline round
* Summer School (grade 12): Attended a two-week-long summer school at amity university exploring several concentrations in CS such as web development, android development, cyber security, hacking and ML along with exploring and attending classes of other concentrations such as theatre, agricultural engineering, archaeology, anatomy and much more

**INTERNSHIPS**

**Digisprint:**

Aimed to provide expertise onend-to-end Digital Commerce, building world-class e-commerce solutions for some of the leading retailers across the US, UK, Mexico and South Africa[**https://www.digisprint.com/**](https://www.digisprint.com/)

* Designed basic framework for websites, arranged client meetings & discussions to meet client's needs, organized intern meetings to better assist software engineers added JS code to make websites more interactive; Wrote SQL queries and managed different databases

**COMMUNITY SERVICE**

**Member, Interact club Grade 11-12**

* Attended weekly sessions online and brainstormed team-building activities
* Attended a workshop on Mental Health in the times of the pandemic and discussed its importance and its impact
* Understood the negative and positive aspects of social media.
* Visited rural slums to spread awareness about road safety and the importance of following road safety rules
* Distributed old goods to underprivileged children
* Conducted campaigns to spread awareness of water conservation

**Volunteer, Indramani Unyan Welfare Grade 10-11**

* Volunteered under the NGO during the covid period, wherein I managed and made schedules for other volunteers, assisted doctors and nurses by keeping constant check on oxygen, vitals, x-rays, giving medicines along with taking care of the food and other need of 100+ patients.