

Arnav Sabharwal
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EDUCATION

Dhirubhai Ambani International School (DAIS), Mumbai, Maharashtra, India
Currently pursuing International Baccalaureate Diploma Program (IBDP), Grade XII
High School GPA (end of Grade XI), 3.99/4.00 May 2021
Dhirubhai Ambani International School (DAIS), Mumbai, Maharashtra, India
Completed Indian Certificate of Secondary Education (Grade X), 98.60 % May 2020

STATUTORY TESTS & ADVANCED PLACEMENTS

SAT Score: 1570/1600; English 780/800, Quantitative 790/800 Mar 2021
SAT Subject Tests: Maths Level II: 800/800; Physics 800/800 Jun 2021
TOEFL iBT Home Edition: 120/120 Sep 2021
AP Exams: Psychology 5/5, Environmental Science 5/5 May 2020

AWARDS & HONORS

Grade XII: Predicted Grades – 44/45 (Subject points 42/42 & TOK/EE points 2/3) 2021
Grade XI: GPA 4.00/4.00 - Received Academic Excellence Award 2021
Subject Achievement Award in Mathematics, Physics, Chemistry, Economics,
Hindi, Theory of Knowledge
Subject Effort Award in English Language and Literature
Grade X: GPA 4.00/4.00 – Received Roll of Honor 2020
Marks: 100% in Mathematics, Computer Applications, Hindi and Social Sciences
99% in Science and Environmental Science
Grade IX: GPA 3.95/4.00 – Received Roll of Honor 2019
Received Subject Award in Physics, Chemistry, Biology, Computer Applications,
Environmental Science, Geography, History and Civics
Annual Science Fair at DAIS: Won the ‘Green Project’ Award for the project titled 2019
“Spice - The Melting Stupa”. It’s based on the work of Chewang Norphel who
created artificial glaciers to improve water supply to a village

INTERNSHIPS/PROJECTS

Tata Power Limited, Mumbai 2021
Interning with Tata Power Limited, the largest power generation company in India
Working on two Descriptive Analysis projects
- Studying impact of weather on power generation through solar panels
- Analyzing power consumption pattern of Households using Smart Meter data
Tata Trusts, Mumbai 2021
Interning with Tata Trusts, the largest Philanthropic Foundation in India
The environment conservation project involves
- Understanding issue of pollution caused by burning of crop stubble by farmers
- Economic implications behind stubble burning
- Role of various stakeholders and possible solutions for collective action
Assisting in writing a Text Book on “Theory of Constraints” 2021
Working with Dr. Ajai Kapoor (B.Tech. IIT Delhi, PhD CMU). The project involves
- Writing book reports on “The Goal” and “It’s not Luck” by Eliyahu M. Goldratt
- Understanding concept of “Thinking Processes” and its application
- Designing exercises for Dr. Kapoor’s book on “Theory of Constraints”

RESEARCH

Physics Research Paper	2021
Completed an individual research paper (Lumiere research scholar program) on	
- Application of squeezed light to reduce the noise floor associated with photoconductive photodiodes in laser-interferometric gravitational wave detectors	
Math Extended Essay for International Baccalaureate Diploma	2021
- Modeling epidemic spread using Markovian Random Walk model	
Math Internal Assessment for International Baccalaureate Diploma	2021
- Study of metacentric height and determination of angle of heel to model stability in ships	

LEADERSHIP (Model United Nations)

2020

- Participated as delegate in Cathedral MUN in the Disarmament and International Security Committee. **Won the “Outstanding Delegate” Award**
- During the Lockdown in 2020 I organised an Online MUN Conference: Concordia MUN. It was a success with participation of 40 delegates. I Chaired the Security Council Committee
- Participated as delegate in the Dhirubhai Ambani International Model UN in the Security Council. **Received a verbal mention for the contributions** at the conclusion of the conference

2019

- Participated as delegate in Spring MUN 2019 in the Historical Security Council. Was selected for night crisis and **awarded the “Best Delegate” award in the council**
- Participated as delegate in Cathedral MUN in the Disarmament and International Security Committee
- Participated as delegate in Dhirubhai Ambani International Model UN in the Security Council. Hosted an Italian Delegate

2018

- Participated as delegate in Spring MUN in the Commission on the status of Women
- Participated as delegate in DAIMUN in the Disarmament and International Security Committee
- Participated as delegate in Cathedral MUN in the Historic Security Council
- **Represented the school in The Hague International Model United Nations**, Singapore as a member of the General Assembly 4 representing Mongolia. The resolution that I was working for was passed with a good majority

SKILLS & ONLINE COURSES

Programming Languages: Java, C++

Coursera Online Specialization: “Introduction to programming the Internet of Things” 2021
The Specialization covers embedded systems, the Raspberry Pi Platform, and the Arduino environment for building devices that can control the physical world

DEBATE/OTHERS

- Represented the school in The Frank Anthony Memorial All India Inter School Debate Competition 2019
 - Won 2nd position in the Inter-House Hindi Creative Writing Competition 2019
 - Delegate in Round Square - Host for 2 delegates from British School (New Delhi) 2019
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COMMUNITY ACTIVITIES

Project Samvedna 2020

The project done with 9 fellow students for Covid Support involved

- Designing and launching a crowd-funding campaign to raise money
- Deployment of funds for supply of PPE kits, beds in hospitals
- Deployment of funds health supplements and care packages for patients
- Creating employment opportunities for Covid impacted

Community Service program with NGO Muktangan 2020-22

The project involves

- Participating in planning of teaching sessions
- Creating multi-subject worksheets for sixth grade Muktangan students
- Suggesting modifications to the Muktangan website
- Improving its social media presence for Muktangan
- Assisting in the donation drive at the Tata Mumbai Marathon

CAS Project 2020-22

Working with a magazine on Environmental Issues (EcoSpeak). The project involves

- Collecting, writing, editing and publishing articles on environmental and social issues
- Distribution of magazine to government schools and others

LIVELIHOOD PROJECT

Diganta Swaraj Foundation 2021

Working with an NGO Diganta Swaraj Foundation in tribal Maharashtra. The project involves

- Study of Solar based water irrigation project (to support farming and provide drinking water),
- Studying its Impact analysis on the tribal community, and
- Sharing recommendations for scaling up the project keeping sustainability in focus

MUSIC & DRAMATICS

- An avid drums player, I am pursuing my drums education at Furtados School of Music (FSM). Cleared Grade 4 Trinity College London Grade 4 Rock and Pop drums exams with Distinction
- Participating and playing drums at annual FSM concerts
- Regularly participant at school dramatics events and Annual plays

INTERESTS

Tennis, Cricket, Scuba Diving, Cooking