#### SAMIKA JAIN

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# EDUCATION

Dhimuhhai Amhani International Cabaal, Munchai India	2040 Due -
Dhirubhai Ambani International School; Mumbai, India	2019-Present 2023-Present
<ul> <li>IB International Baccalaureate Diploma Program, Grade 12</li> <li>IGCSE Cambridge Board Examinations, Grade 102021-2023</li> </ul>	2023-Present
ANDARDIZED TESTS	
- SAT SCORE: Total-1520; Reading and Writing-730; Math-790	
<ul> <li>Duolingo 155/160</li> </ul>	
CADEMIC HONORS AND AWARDS	
- Grade 11-Subject Achievement Award in Chemistry HL, English Language and Lit HL, Math AA SL, TOK	2024
<ul> <li>Grade 10- 9A* s and 1A in IGCSE Board Examinations</li> </ul>	2023
<ul> <li>Grade 10-Honour Roll Award in Grade 10</li> </ul>	2023
<ul> <li>Grade 10-Subject Achievement Award in 9 subjects</li> </ul>	2023
<ul> <li>Grade 9-Honour Roll Award</li> </ul>	2022
<ul> <li>Grade 9-Subject Achievement Award in 6 subjects</li> </ul>	2022
<ul> <li>Bronze Medal -Queen's Commonwealth Essay Writing Competition</li> </ul>	2023
<ul> <li>1st Prize- Inter House School Creative Writing Competition</li> </ul>	2022
<ul> <li>2nd Prize-Les Retrouvailles French Story Writing Mumbai Inter-school</li> </ul>	2023
<ul> <li>1st Prize-Concours Cinerama-National French Short Movie Competition</li> </ul>	2022
<ul> <li>9th position- Romain Rolland French- National Word Power</li> </ul>	2022
HOOL LEADERSHIP	
<ul> <li>Head of Writing: Press at DAIMUN (School Model United Nations)</li> </ul>	2024-25
<ul> <li>Deputy Head of Writing: Press at DAIMUN (School Model United Nations)</li> </ul>	2023-24
<ul> <li>Head of Creative Writing Club</li> </ul>	2023-Present
<ul> <li>Press Delegate at The Hague International Model United Nations (THIMUN)</li> </ul>	2023
<ul> <li>Co-Editor of Insignia School Magazine</li> </ul>	2023-Present
DLOGICAL SCIENCES RESEARCH AND EXPERIENCES	
search, Internship, & Observership	
eumonia Detection Research using Al	2024
- Created a computer vision system model to diagnose pneumonia from chest X-rays as a group project using	Python code
- Evaluated my model on field data and created artificial data using image transformation to understand how real-life data. This model exposed me to benefits of using Al in healthcare	well my model worked on
ernship at Biochemistry Lab of Sir H.N Reliance Hospital and Research Centre Mumbai.	2024
<ul> <li>Observed, understood, and prepared report on various tests like</li> </ul>	2024
<ul> <li>Observed, understood, and prepared report on various tests like</li> <li>Quantitative estimation of Albumin and calcium and glucose present in human serum and plasma</li> </ul>	
<ul> <li>Quantitative estimation of ALP (Alkaline Phosphatase) in human serum and plasma</li> </ul>	
<ul> <li>Quantitative estimation of ALT (alanine aminotransferase); estimation of total cholesterol and iron</li> </ul>	
<ul> <li>Prepared report on Immunology - approved by Dr Nitin Chavan, Chief of Lab Services Reliance</li> </ul>	
servership at Breach Candy Hospital	2024
<ul> <li>Observed, understood, and prepared a report on the prevalence of Osteoporosis in India. Approved by ort Maniar of Breach Candy Hospital</li> </ul>	thopaedic surgeon Dr. Raje
ernship at S H Kelkar Ltd, Mumbai, India ( <u>www.kevaflavours.com</u> )	2023
pecialty chemical company engaged in manufacturing food flavors and fragrances. The 5-week paid internship pro	vided real-time experience
field of biochemistry where I,-Understood and observed the procedures such as oxidizing alcohols, TLC stain	
accesses that go holying the manufacturing of inductrial fragmanes and flavors, both natural and attificial	5

- processes that go behind the manufacturing of industrial fragrances and flavors, both natural and artificial. - Understood the basics of Vacuum Distillation which is used to lower the boiling points of organic compounds. The apparatus was set to minimize electrical wastage and energy loss. Safety Protocols were carefully understood while handling apparatus and chemicals.
  - Prepared a report for processes involving Brine water workup, Infrared Spectroscopy, and kugelRohr distillation.

# Summer Program:

# Brown Pre-College Program: Laboratory Research in Biomedicine:

The 2-week residential program introduced me to the techniques in molecular biology, molecular genetics, and biochemistry which are fundamental to research across multiple life science disciplines.

- Followed a multistep, complex scientific protocol involving various techniques such as agarose gel electrophoresis, and polymerase chain reaction (PCR) along with mastering micro pipetting skills.
- Analyzed and interpreted data while observing total protein extraction from various fish muscle tissues. Along with understanding theoretical concepts, I strengthened my problem-solving and critical-thinking skills associated with conducting experiments and analyzing data.

# **a** - -

2024

# Journalism: Medical and Healthcare

#### Freelancer for BioSpectrum India, Bengaluru, India (www.biospectrumindia.com)

BioSpectrum India is an integrated B2B media platform for the healthcare and bioscience industry in India and Asia. Under the mentorship of Dr Manbeena Chawla who is the CEO of the company, I strengthened my research and writing skills in the biotechnology industry. Articles published to date:

- Cure for Multiple Sclerosis (MS)- still elusive
- Strengthening Ecosystem for Medical Tourism in India
- The Economic and Healthcare impact of Hepatitis C Treatment in India
- India's biopharma and malaria elimination goal

#### Online Courses

- Chemicals and Health, final grade of 100% in 3-week online course, Johns Hopkins University
- Systems Thinking In Public Health, final grade of 83.30% in 3-week online course, Johns Hopkins University
- Vital Signs-Understanding What the Body Is Telling Us, final grade of 92.75% in 3-week online course, Penn
- Introduction to Psychology, final grade of 100% in a 3-week online course, Yale University
- Introduction to Human Physiology, final grade of 95.72% in a 10-week online course, Duke University

#### ANTI-TOBACCO DRIVE

- Collaborated with an NGO for underprivileged children: Angel Xpress, to lead and conduct successive anti-tobacco drives in municipal schools
- The objective was to spread awareness among less informed and underprivileged youths in my locality about the harmful effects of tobacco consumption.
- -Organized various interactive sessions with impactful videos, quizzes, and poster competitions. The campaign was conducted in the local language, designed to resonate with contemporary youths' experiences.
- Conducted anti-tobacco drive in Municipal gardens.

#### STEM ENDEAVORS

2022-2024

2023-Present

STEMinist: Conducted a workshop for underprivileged girls in STEM. As a team of four volunteering friends, we aimed to spread the awarenessof science among females of low socio-economic backgrounds.

#### **CREATIVE WRITING**

- MUN (Model United Nations): Appointed Writing Head (Grade XII) and Deputy Writing Head (Grade XI) for DAIMUN. Mentored rising juniors and sophomores in writing formal and informal articles.
- THIMUN: Appointed as a reporter for International THIMUN, Hague, Netherlands. Created content for the social media page and website.
- Insignia school magazine: Wrote several articles and poems in both English and French, which was highly appreciated.
- Orange Fizzdom: A personal blog for poetry and prose reflecting my curated literary pieces. The collection showcases not only my appreciation for literary artistry but also my commitment to celebrating diverse perspectives.
- La Dolce Vita: Cultivated an archive to celebrate the exploration of self at the intersection of the female experience, pop culture, and emotions. It features an array of books, articles, art pieces, essays, and movies concurrent with personal and universal emotions.

# FRENCH PURSUITS

LES Retrouvailles 2023 Story writing Mumbai Inter-school Competition -Stood 2<sup>nd</sup> in French story writing competition 2024

-	Concours Cinerama: National Competition for French Film (2022)- 1 <sup>st</sup> prize along with the prestigious Jury's award at the National	
	Cinerama competition organized by the French Institute in India. The short film was written, directed, acted, and shot by 2 classi	nates,
	and myself at Dhirubhai Ambani International School	2022
_	Romain Rolland National French Competition – 9 <sup>th</sup> position in the National French Word Power Competition	2020

Romain Rolland National French Competition – 9<sup>th</sup> position in the National French Word Power Competition

# COMMUNITY OUTREACH

Round Square International Conference (RSIC), Kenya- New Africa	2023-24
- Attended several keynote panel discussions that highlighted an array of African innovators focusing on how the African con	tinent has
evolved.Performed a group cultural dance representing India's traditions on an international platform. Engaged in a service a	activity by
refurbishing schools in and around Nairobi.	
The Welfare for Stray Dogs (@wsdindia)	2023-24
- Volunteered for a year towards the betterment of street dogs in Mumbai. A school CAS activity.	
Angel Express Foundation-Transform Lives through Education	2022-23
- Taught Math and English to an assigned group of kids for a total of 40 hours, with innovative methods, I was successful in tead	ching core
concepts to underprivileged kids in language and math.	
Jaipur Foot - prosthetic limbs	2022
- Attended and volunteered at a workshop in Jainur, to patients and observe the manufacturing process of prosthetic limbs	

tended and volunteered at a workshop in Jaipur, to patients and observe the manufacturing process of prosthetic limbs.

# **MUSIC - VIOLIN**

# ABRSM- Associated Board of the Royal Schools of Music, UK

- Practical: Completed levels 1 to 5 of the Practical Violin Examination with awarded distinction
- Theory: Completed levels 1 to 4 of the Theory Violin Examination with merit and distinction

#### NCPA- National Centre for Performing Arts, Mumbai

- Solo Violin Performance at NCPA High Scorers' Concert
- School Fete Solo Performance at School Fete