

NIVRITI PURI

6A Crown Aura Apartments, Jakkur Plantation Road, Bangalore 560064, India | +91 99027 09293 | nivriti70@gmail.com

EDUCATION & ACADEMIC AWARDS

CANADIAN INTERNATIONAL SCHOOL (CIS)

Bangalore, India

IB Diploma Programme, Grades 11 and 12

Aug 2023 - Present

- **HL:** Theatre, Math AA, Biology, Psychology; **SL:** Spanish B, English A: Language & Literature
- **IB1 1:** Semester 1: 42/42, Semester 2: 42/42

Cambridge IGCSE Board Examinations, Grade 10

Aug 2021 - Jun 2023

- **Grades:** Additional Mathematics (A*), Computer Science (A*), Co-ordinated Sciences (A*A*), Drama (A*), Foreign Language Spanish (A*), Global Perspectives (A*), Literature in English (A*), First Language English - Oral Endorsement (A)

Scholastic Assessment Test (SAT)

Oct 2023 - Mar 2024

- **Total:** 1570, EBRW: 770, Math: 800

ACADEMIC HONORS AND AWARDS

- IB1: Highest in Subject Awards in Biology HL, Mathematics AA HL, Psychology HL, Drama HL
- IGCSE: International **Distinction** and Cambridge Learners '**Top in India**' award for IGCSE Drama
- IGCSE: Highest in Subject Awards (School) in Computer Science, Global Perspectives, and Drama
- Grade 10: Highest in Subject Awards in Additional Math, Computer Science, Drama and PE
- Grade 9: Highest in Subject Awards in Additional Math, Global Perspectives, Drama and PE
- IB1, Grade 10, Grade 9: Head of School Accolade

NEUROLOGICAL SCIENCES RESEARCH & EXPERIENCES

CARNEGIE MELLON UNIVERSITY

Online

Intern under Dr. Tai-Sing Lee, Department of Computational Neuroscience

Jun 2024 - Present

- Generating computational stimuli using Pytorch to test the receptive field of V1 neuronal cells.
- Researched existing literature regarding the influence of neural receptive fields on stimulus-response rates.

NATIONAL CENTRE FOR BIOLOGICAL SCIENCES (NCBS)

Bangalore, India

Intern under Dr. Upinder Bhalla, Department of Neuroscience

Sep 2023 - Present

- Data mining the 5-HT_{2A} Receptor Signal Cascade and computationally transforming collected data on the cascade into a computational format through FindSim, a neural signal model framework.
- Assisting in developing a computational brain model in autism research.

GEORGETOWN UNIVERSITY

Online

Intern under Dr. Jagmeet Kanwal, Department of Neuroscience

Jun 2023 - Present

- Accepted for publishing in the *International Journal of Pain Management* by writing the literature review "Creation of Music-Induced Analgesia in Chronic Pain Patients through Endogenous Opioid Production".
- Authored a research report under the topic *Neural Computations for Decision-Making*; the paper earned an A+ in the Pioneer Research Program and was nominated for publishing, in the top 8.9% of the program.

THE NEUROSCIENCE AND PSYCHOLOGY CLUB, CIS

Bangalore, India

Co-Founder and Leader

Sep 2022 - Dec 2023

- Ran a panel discussion with Dr. Aditi Bhattacharya (neurobiologist) and Ms. Ragini Yerragudi (psychiatrist).
- Conducted a high school-wide fundraiser in support of the Centre for Neuroscience, Bangalore.

MINDFUL TMS, ASTER HOSPITAL

Bangalore, India

Intern

Jun 2022 - Aug 2023

- Observed transcranial magnetic stimulation (TMS) on patients with OCD, depression, strokes, and anxiety.
- Wrote two articles to increase patients' understanding of the science behind TMS on depression and anxiety.

CAMBRIDGE SUMMER PROGRAM

Cambridge, U.K.

Participant, Neuroscience Course

Aug 2023

- Wrote two essays: describing the Occipital Lobe, and evaluating splitting sleep schedules that enhance memory.
- Studied C Elegans's neurological behaviour with Dr. Laura Grundy at the Cambridge Smith Laboratory.

THEATRICAL & PUBLIC SPEAKING INTERNSHIP & OUTREACH

NEIL FARRELLY, THEATRE COACH AND AUTHOR, NOSE2NOSE

Bangalore, India

Intern and Workshop Assistant

Nov 2022 - Present

- Revised pieces from the book *What The Funny* into princess-themed monologues of different theatrical styles.
- Co-ran and organised theatrical workshops in The International School of Bangalore in 2023 and 2024

SHISHU MANDIR

Bangalore, India

Volunteer under Dr Anand, Secretary

Jun 2020 - Present

- Founded CIS's *Shishu Mandir Outreach Club* where middle schoolers peer-teach public speaking and writing.
- Conducted a theatre workshop at Shishu Mandir with the help of Neil Farrelly for a group of sixth graders.
- Directed a drama production (*Little Women*) with students; performed at CIS and Shishu Mandir in April 2024.
- Taught a grade 6 class of 20 children in person and online; creative writing and public speaking over three years.

THE DRAMA CLUB

Bangalore, India

Assistant Director and understudy for Mr. Merrick, Drama teacher

Jan 2023 - Apr 2023

- Assistant director for the drama production of the play "Dream Jobs".
- Directed and stage-managed the show for two weeks and performed as an understudy for the role of Judge Ashley.

LEADERSHIP INITIATIVES

THE MUN CLUB,

Bangalore, India

Secretary-General (2024-2025), Deputy-Secretary General (2023-2024)

Sept 2022 - Present

- Leader of the CISMUN XI secretariat, and co-hosted CISMUN X, with 330+ attendees across Southeast Asia.
- Was a student officer for UNSC at CISMUN IX & DISEC at CHEMUN XVII.
- Won "Best Delegate" at SNISMUN and 2023 GEARMUN; attended 6 conferences as a delegate.

THE STUDENT COUNCIL, CIS

Bangalore, India

Grade Representative

Sept 2021 - Jun 2022

- Co-founded and ran the school's first Spelling Bee Event for the high school and the middle school.
- Planned recreational events like trivia contests throughout the year for the high school.

BIOLOGICAL SCIENCES EXPERIENCES

ICREST LABORATORY

Bangalore, India

Participant

Sept 2022 - Oct 2022

- Performed biochemical experiments involving serial dilution and phytochemical extraction.
- Learned graphing techniques designed to test serial dilution accuracy.

CYTECARE CANCER HOSPITAL

Bangalore, India

Participant

Sept 2022 - Oct 2022

- Visited the blood bank, nuclear medicine, engineering and maintenance, and radiation oncology departments.
- Heard lectures from Dr. Seema (blood bank head), and Dr. Anand (radiation oncology department chief physicist).

SKILLS & INTERESTS

- **Languages:** English (fluent), Spanish (intermediate).
- **Performing Arts:** Dance (Hip-Hop, Jazz, Tap, and Ballet); Music (Piano, Guitar, and Ukulele).