

ANANDITA ARUN

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EDUCATION

American International School Chennai (AISC), Chennai, India

2023-present

- *Advanced Placement, High School Diploma*

The Harker School, San Jose, California

2012-2023

STANDARDIZED TESTS AND AP SCORES

- **SAT:** 1530 (Math: 780, Evidence-Based Reading and Writing: 750) **2024**
- **AP Examinations:** **2023-2024**
 - Computer Science A – 5, World History: Modern – 5, AP Music Theory – 5, AP English Language and Composition – 5, Calculus AB – 5, AP Microeconomics – 4, AP Macroeconomics – 4, AP Physics 1 – 4

ACADEMIC AWARDS AND HONORS

- AP Scholar with Distinction **2024**
- National Merit Letter Of Commendation **2024**
 - Distinction for top 3% of scorers on PSAT
- SASMO Math Competition: Honorable Mention **2024**
- AISC Department Awards **2024**
- Ziedman Award - First place **2021**
 - Science Research Project (SRP) Participant, first place winner of Zeidman Award with \$500 cash prize for a project detecting deep fakes
- Honor Roll certificate for Academic Achievement, Citizenship and Effort **2019-2023**

MUSIC AND TECHNOLOGY EXPERIENCES

Research:

NYU Abu Dhabi, Abu Dhabi, United Arab Emirates

2024

Principal Investigator under mentorship of Prof. Kaustuv Kanti Ganguli Visiting Scholar NYU Abu Dhabi, Associate Professor, Zayed University

- Working with Dr. Kaustuv Kanti Ganguli of NYU Abu Dhabi on computational musicology research

Research Paper in categorizing Carnatic Vocals into Navarasas using Machine Learning

- Selected for presenting the paper in The International Society for Music Information Retrieval (ISMIR) Conference

November 2024

Inspirit AI, Palo Alto, California

2023-2024

Independent Researcher mentored by Eric Bradford MIT graduate and Project Manager at Apple Inc

- Writing a research paper with Inspirit AI on the relationship between machine learning and categorizing music by genre

Performances:

Carnegie Hall, New York, NY, USA

2024

Honors Performance Series Finalist

- Accepted into the Honors Treble Choir by World Strides and performed at the prestigious Carnegie Hall in New York under the direction of renowned conductor Matthew Brady

Downbeat: Acappella Show Choir, Harker School San Jose, California

2022-2023

- Performed at homeless shelters, senior living homes, and preschools, as well as the Varsity Vocals International Championship of High School A Cappella (ICHSA) competition

Open Mic Performer, California and Chennai, India

2023-Present

- Experienced live performer in open mics in California as well as Chennai. Performed multiple times with American Idol pianist Michael Orland.

Compositions:

Original Song: "Anything"

2024

- Composed and wrote an original song "Anything."

Training:

Carnatic Vocal, 11 years

2013-present

- Trained in Indian Classical Carnatic vocal music, focusing on traditional techniques, ragas, and kritis.

Western Vocal, 6 years

2018-present

- Trained in Western vocal music, covering classical, musical theater, pop, and jazz genres.

Classical Piano, 12 years

2011-2023

- Achieved Certificate of Merit Piano Level 8 with State Honors

Competitions and Festivals:

ISTA Festival, Chiang Mai, Thailand

2024

- Participated in the ISTA Ensemble, held at the Prem International School in Chiang Mai, Thailand. Exposed to a collaborative approach to learning, community building, and story-based inquiry, created abstract performances based on Climate Change.

1st Place: MANCA Kalolsavam English Song Competition, Bay Area, California

2023

- Awarded first place in Western Classical Category, showcasing vocal talent and performance skills.

4th place - Varsity Vocals: ICHSA, Los Angeles, California **2023**
● *Competed with Downbeat, the upper school show choir, in the International Competition of High School A Cappella.*

Summer Programs and Internships:

Stanford CCRMA Workshop, Palo Alto, California **2024**
Exploring cross-cultural music similarity through the lens of computational musicology workshop

- Explored cross-cultural music analysis using computational methods, focusing on signal processing, MIR, and machine learning.
- Developed practical skills in analyzing and understanding diverse musical structures, integrating techniques from DSP and music cognition.
- Applied techniques to understand and analyze diverse global music traditions.

Lotus Capital Ventures, Cupertino, California **2024**

- Summer Intern Applied AI. Assisted the Senior Associate and Analyst in a research project with Autonomous AI Agent as a thesis.
- Autonomous Agents are built on powerful LLMs, integrate tools for additional capability, perform with working memory and - most importantly - are able to reflect and self-critique their own work

Non degree Courses & Certificates

Data Science and AI, Indian Institute of Technology (IIT), Chennai School Connect Program **2024**

Philosophy of Physical Sciences, Coursera, University of Edinburgh **2024**

Audio Signal Processing for Music Applications, Coursera, Universität Pompeu Fabra **2023**

AI Scholars Program, Inspirit AI **2023**

Outreach

Founder and President, Tri-M Music Honor Society Chapter

- Established a chapter at AISC, promoting music excellence and leadership among students as well as serving the community

Periyar Science and Technology Center , Chennai, India **2024**

- Served as a Volunteer in Birla Planetarium and contributed to customer experience by developing simple visual aids on Cosmology to enhance the understanding and experience of the students, visitors and other space enthusiasts. Volunteered over 100 hours

FUTURE PROBLEM SOLVING

Competitions and Awards **2017-2024**

- Community Problem Solving International 3rd Place Winner, **only student representing India** **2024**
- State Presentation of Action Plan (PAP) First Place **2023**
- State Community Problem Solving Winner – 2nd place **2022**
- International Community Problem Solving Winner - 11th Place **2022**
- State Global Issues Problem Solving (GIPS) Individual Winner - 2nd Place **2020**
- State Qualifier and Finalist for 6 years

Leadership

Officer, Future Problem Solvers Club, San Jose, California **2021-2023**

- Secretary **2023**
- Community Problem Solving Coordinator **2021-2022**
- Lower School Coordinator **2022-2023**

FUNCTIONAL HEALTH INITIATIVES

Understand You (UY) **2024**

Founder

- Understand You is a holistic platform focused on women's fitness, specifically of Indian women in Tamil Nadu. The app aims to provide women with a safe, inclusive, and empowering space to engage in various fitness activities, access personalized workouts, connect with like-minded individuals, and receive support and encouragement to prioritize their health and well-being. <https://uyapp.info/>
- Met with Dr. Usha Sriram, a board-certified endocrinologist, diabetologist, and physician in Chennai and shared app prototype.
- Presented app to personal fitness classes at various regional schools, corporates, working women and community health workers.
- More than 2000 personnels were educated and trained to use the app with measurable outcomes

INTERESTS

- Tennis **2021**
 - Harker High School Varsity Tennis CIF NorCal Championship Winner
 - Undefeated in league play, CCS champions, and CIF Northern California champions.
- Music
- Art
- Volunteering

PUBLICATIONS & WHITE PAPERS

- *Research Paper in categorizing Carnatic Vocals into Navarasas using Machine Learning*
- Submitted the paper in The International Society for Music Information Retrieval (ISMIR) Conference **November 2024**