
Bhavya Dwivedi

High School Student

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SKILLS

Programming in Python, Programming in HTML/CSS, Programming in Java, Natural Language Processing (NLP), Artificial Intelligence; Time management, collaboration/cooperation, strong work ethic

EXPERIENCE

Aspiring Scholars Research Directed Program (ASDRP), Fremont - *Research Program*

SEPTEMBER 2023 - PRESENT

- Analyzing Automated Breast Ultrasound Images using Deep Learning and Convolutional Neural Networks to Detect Breast Cancer
- Worked with Dr. Larry McMahan from Rice University and currently working with Dr. Suresh Subramaniam to finish the project

Cambridge Centre of International Research (CCIR) - *Research Program*

JUNE 2024 - OCTOBER 2024

- Leveraging Platform-Specific Guidelines for Improved Hate Speech
- Completed research comparing the cosine similarities between four social media platforms' guidelines to each other as well as with social media comments in a dataset adapted from a task submission

Asha Jyothi, Bay Area - *Volunteering*

SEPTEMBER 2023 - SEPTEMBER 2024

- Participated in community service to fundraise to help underprivileged youth in India
- Received PVSA Gold for completing over 100 hours within a one year time period

Friends of Children of Special Needs, Bay Area - *Volunteering*

DECEMBER 2023 - SEPTEMBER 2024

- Volunteered to help children with special needs in the bay area through certain activities, specifically by teaching them Muy Thai (martial arts), and organizing events for them (talent shows, etc)

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- Completed 56 community service hours through this organization

ASD Project - *Research*

JANUARY 2025 - PRESENT

- Determining if chronic maternal stress is a cause of autism being developed in the fetus
- Utilizes Machine Learning and valuable biomedical research to answer an important question

EDUCATION

Emerald High School, Dublin - *9th grade, 10th grade*

AUGUST 2023 - PRESENT

Completed 9th grade (freshman year) from August 2023 - May 2024, and currently completing 10th grade (sophomore year) from August 2024 - May 2025

Fallon Middle School, Dublin - *6th grade, 7th grade, 8th grade*

AUGUST 2020 - MAY 2023

Completed middle school education (6th grade, 7th grade, 8th grade) over three school years (August 2020 - May 2021, August 2021 - May 2022, August 2022 - May 2023)

RELEVANT AND ADVANCED COURSEWORK

AP Computer Science Application - *UC Scout*

AUGUST 2023 - MAY 2024

Completed both Part 1 and Part 2 of the AP Computer Science A course offered at UC Scout

Java Exception Handling - *LinkedIn*

OCTOBER 2023

Received Java Exception Handling LinkedIn certification by completing Java Exception Handling course

Java Memory Management: Values and References - *LinkedIn*

SEPTEMBER 2023

Received Java Memory Management certification by completing Java Memory Management: Values and References course

Java Memory Management: Garbage Collection, JVM Tuning, and Spotting Memory Leaks - *LinkedIn*

SEPTEMBER 2023

Received Java Memory Management certification by completing Java Memory Management:

Garbage Collection, JVM Tuning, and Spotting Memory Leaks course

Learning Java Collections - *LinkedIn*

SEPTEMBER 2023

Received Java Frameworks LinkedIn certification by completing Learning Java Collections course

Java Essential Training: Objects and APIs - *LinkedIn*

AUGUST 2023

Received Java Essential Training LinkedIn certification by completing Java Essential Training: Objects and APIs course

Java Essential Training: Syntax and Structure - *LinkedIn*

AUGUST 2023

Received Java Essential Training LinkedIn certification by completing Java Essential Training: Syntax and Structure course

Spanish 3, Part 1 - *Silicon Valley High School (SVHS)*

AUGUST 2024 - DECEMBER 2024

Completed Spanish 3, Part 1 course from Silicon Valley High School

Spanish 3, Part 2 - *Silicon Valley High School (SVHS)*

JANUARY 2025 - PRESENT

Currently completing Spanish 3 Part 2 course from Silicon Valley High School (SVHS)

Biology - *Brigham Young University (BYU)*

JUNE 2023 - JULY 2023

Completed Biology through BYU online over the summer of 2023

Honors Precalculus - *APEX Learning*

MAY 2024 - JULY 2024

Completed Honors Precalculus through Apex Learning over summer of 2024

Honors Chemistry - *Emerald High School*

AUGUST 2023 - MAY 2024

Completed Honors Chemistry in Emerald High School in 2023-2024 school year

Advanced Algebra II - *Emerald High School*

AUGUST 2023 - MAY 2024

Completed Advanced Algebra II in Emerald High School in 2023-2024 school year

Advanced English - *Emerald High School*

AUGUST 2023 - MAY 2024

Completed Advanced English of the 9th grade level in Emerald High School in 2023-2024 school year

AWARDS

President's Volunteer Service Award Gold

USA Computing Olympiad Bronze

REFERENCES

Diana Galvan Sosa - Cambridge Centre of International Research Advisor - Cambridge University

Larry McMahan - Aspiring Scholars Directed Research Program Advisor - Rice University