

# Aaditya Raj Trivedee

he/him/his

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[www.github.com/AadityaTrivedee](https://www.github.com/AadityaTrivedee)



## Education

### Knox College

Sep 2024 - May 2028

**Bachelor of Science, Computer Science & Economics major.**

Galesburg, IL, USA

**Honors:** Selected in Buildspace's Nights & Weekends Season 6, Incoming Freshman with a Full Tuition Scholarship.

### Kathmandu Model Secondary School (KMC)

Sep 2021 - Aug 2023

**Highschool Diploma, GPA (Nepal Education Board): 3.81/4.0**

Kathmandu, Nepal

(US Equivalent of 4.0/4.0 Unweighted)

**SAT Score:** 1480/1600; **DET (Duolingo English Test) Score:** 145/160; **IELTS Score:** 7.5/9 (L9, R8.5, W6.5, S6)

**Honors:** Principal's Merit List, 22nd in National Physics Olympiad 2022, Semi-finalist in National Science Fiesta 2022, Semi-Finalist in National KMSS Maths Carnival 2023, Full Merit Scholarship Award covering tuition.

**Involvements:** Student Government. (SEDS KMC President)

### Galaxy Public School

May 2011 - May 2021

**GPA (Nepal Education Board | GRADE 10): 3.95/4.00**

Kathmandu, Nepal

(US Equivalent of 4.0/4.0 Unweighted)

**Honors:** NASA Mission to Mars Educator license, Gold Medalist/Honorable mention in 19th NSQC (Students' Quality Circle), CERN BL4S Research participant, Full Merit Scholarship Award covering tuition & miscellaneous expenses.

**Involvements:** Class Representative for Grade 9 and Grade 10.

## Experience & Leadership

### Karkhana Asia (Internship)

Kathmandu, Nepal (Hybrid)

**Educator Fellows | DPK Intern (Designers of Product and Knowledge)**

May 2024 - Aug 2024

**DPK Intern:** Developed interactive curriculum for Grades 6 and 7; Made 10+ experiments and 100+ questionnaires based on government-issued textbooks and distributed them to schools all around Nepal; developed automation API for Google Forms, Google Sheets, Gmail, and Canva for multitasking in teams and mass certificate generation; hosted Educator Fellows' training program every Thursday for 12 weeks physically to train other fellows to conduct and teach the experiments.

**Educator Fellow:** Became a STEAM educator for 3 government schools for 15 weeks (280+ students); Organized 2-hour sessions every Friday on experiments designed by DPK to students from Grades 3 to 8 as a part of Kathmandu Metropolitan City Book Free Friday program.

### Grammar Public Higher Secondary School

Kathmandu, Nepal (Onsite)

**Lecturer**

Nov 2023 - July 2024

Taught Science, Mathematics, and Social Science to students from Grade 6 to Grade 9 (120+ students); engaged in after-school classes to teach life skills such as programming, finance, general knowledge, psychology, and logical reasoning skills; developed students' progress tracking sheet to track every students' progress and share necessary data to headteachers and parents like feedback; created peer-learning platform.

### STRC International (Youth-led Organization)

Sharjah, UAE | Kathmandu, Nepal (Hybrid)

**Co-President | Founder**

Nov 2020 - July 2024

Established digital connection of students from rural areas during the COVID-19 pandemic; worked with Engage Nepal with Science for Climate Change Project; hosted outreach programs providing consistent engineering support to students in rural villages; reached 3 countries, 35 schools, and 1400+ students.

### SEDS KMC (Student Government)

Kathmandu, Nepal (Onsite)

**President (Jun 2022 - Aug 2023) |**

Affiliated with KMSS

**Founding General Member (Oct 2021 - Jun 2022)**

Jun 2021 - Aug 2023

**Presidency Tenure:** Conducted 12+ cosmology lecture sessions; built Can-Satellites; Organized Nation's first national-level astronomy fest (X Fest); Organized 4 Asteroid Research Campaigns; Hosted Intra School Astronomy quiz twice; Worked on experimental research with Can-SATellite between the effect of air velocity on sound waves; Mentored in Robotics Projects.

**Member Tenure:** Assisted in Solar Observation; Guided an Asteroid Search Campaign within the club; volunteered in NASO events.

## Honor & Achievements

### **Immerse Education Essay Competition 2023 Award Holder**

*Issued by Immerse Education · Oct 2023 | Credential ID: 92f02e7d-2153-4719-ad0b-1486f58c39f7*

The competition required one to write a report on education topics based on papers. I chose the field of Artificial Intelligence and answered the prompt "Is AI good or bad for our society?" I was chosen as one of the winners of the competition. (150 chosen out of 2000+ participants)

### **Little Angels' Science Fiesta 2023 Finalist**

*Issued by SPAM, Little Angels' School · Jan 2023*

Participated in Intra-school National Level Science and Math Quiz representing KMSS, Bagbazar as a duo and reached the finals. (Top 8 out of 120 participants)

### **Participant of the 15th National Students' Quality Circle 2019 Convention**

*Issued by QUEST NEPAL · Sep 2019*

I was elected, from the school, to participate in the Regional SQC through which our team was selected to participate in the National SQC and present a report based on some salient issues among teenagers. Along with the presentation, I also secured the winning position for the Ad-Lib Skit Competition on the theme "Hard work".

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## Projects

### **Breast Cancer Classification Algorithm (Neural Network - Python)**

<https://github.com/AadityaTrivedee/breast-cancer-classification-neural-network>

I used a neural network classification algorithm to take a step toward tackling one of the most heated issues of detecting breast cancer. This project utilizes a single hidden layer neural network to predict the probability of malignant breast cancer cells in women using the featured characteristics in the publicly available Wisconsin Breast Cancer dataset. The classification works on 0s and 1s, 0 being benign and 1 being malignant. The algorithm uses 6 neurons, tanh, and sigmoid activation functions to create a judgment of cancerous possibility with a 98% accuracy in test\_set. I used pandas, numpy and sklearn model libraries to develop this algorithm. It was further used as an initial testing algorithm along with several other algorithms by the Municipal Health Department to test breast cancer probability in an awareness campaign.

### **Mobile Price Prediction Algorithm (Machine Learning - Python)**

<https://github.com/AadityaTrivedee/Mobile-Price-Prediction-ML>

This is one of my first machine learning projects where I trained a model to predict the prices of mobile phones from a public dataset extracted by Pandas that included several specification factors for the phone. I normalized the dataset through the max-min method, and then split the data into two halves: train\_set and test\_set through the sklearn model library. I used the linear regression model to test the dataset which resulted in 95.59% accuracy. I also added a prediction system for the user to predict the price of a mobile phone based on the specs listed by the user.

### **Tic Tac Toe - Multiplayer & Bots (Python)**

<https://github.com/AadityaTrivedee/tic-tac-toe-20>

### **Personal Portfolio Design (Figma)**

<https://figma.fun/PWYbAq>

### **Project Website Design (Figma)**

<https://figma.fun/xIoGJ5>

### **Restaurant Search App Design (Figma)**

<https://figma.fun/B5cNrR>

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## Certifications

- **CORPFIN1x: Introduction to Corporate Finance**, ColumbiaX, Columbia University (*Issued July 2024*)
  - **Financial Markets (with Honors)**, Yale University (*Issued Jun 2024*)
  - **CalcAPL1x: Calculus Applied!**, HarvardX, Harvard University (*Issued Jun 2024*)
  - **Neural Networks and Deep Learning**, DeepLearning.AI (*Issued Apr 2024*)
  - **Remote Experience for Young Engineers & Scientists (REYES)**, University of California, Berkeley (*Issued Feb 2024*)
  - **NRCC Summer Program: Research Workshop**, Nepal Research and Collaboration Center (NRCC) (*Issued Nov 2023*)
  - **Elements of AI: Introduction to AI**, University of Helsinki (*Issued Jan 2021*)
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## Skills

- **Programming:** Python, HTML, CSS, SQL, Octave, MATLAB, LaTeX, Google Workspace, Microsoft Office, Canva, Figma.
  - **Language:** Nepali (Native), English (Fluent), Hindi (Fluent), Japanese (Basic).
  - **General:** Leadership & management skills, effective communication skills, pursuing new experiences.
  - **Interests:** Instrument (Guitar & Violin), Photography, Sketching, Consulting, Cooking, Binge-watching.
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