

Aditya Karki

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Summary

I am an A-level graduate with a passion for Computer Science and Mathematics. I have a genuine passion for the development of EdTech sector in Nepal. Finding Math World Nepal, I have collected bright Math and CS students from all over Nepal. We are working to build a platform for Mathematics research, content creation, tutoring and digital networking, where we groom students for various national and international Math competitions. I have developed research and statistical analysis skills by independently researching on topics related to the current affairs. I also love to tackle real-world problems through Coding or Mathematics. This has led me to work in various independent CS projects.

- Experience coding in JavaScript, Python, CSS, HTML-5, Java, and Visual Basic.NET.
- Project Head at BloomED Nepal.
- Web Designer/Developer at Neema Academy.
- Awarded National Gold Honor, International Youth Math Challenge-2019.

Experiences

Web Designer/Developer, Neema Academy, Pipal Bot, Mahakavi Marg, Kathmandu 44600

May 2021 - Present

- Worked with the front-end web development team and improved the visual quality of content
- Proof read and suggested improvements to written web-content related to secondary-level Mathematics

Project Head and Senior Content Creator, BloomED, Kathmandu 44600

Jan 2021 - Present

- Trained interns in a computing environment including MS suite, LaTeX, and Python
- Prepared high-school level online-courses based on Nepal curriculum, which covers Mathematics, Computer Science, Optional Mathematics, and Science
- Hosted Bi-weekly webinars with guests from colleges like Cornell, NYU, MIT, Colby, Smiths, and Penn State
- Built starter level Olympiad preparation courses working in the Competitive Mathematics project

Founder and President, Math World Nepal, Kathmandu 44600

Dec 2020 - Present

- Collected 37 students from all over Nepal who are passionate about Mathematics, Coding, Graphics Design, and Public Relations
- Built six intellectual teams: Research, Content, Public Relations, Graphics, Technical, and Board
- Reviewed all the final contents of the content team
- Designed the Math World's website
- Conducted educational webinars from Olympiad finalists, university students, and professors
- Prepared Math animations using Manim library
- Tutored at Bloom Nepal School under the rural-tutoring venture of Math World Nepal

Independent Researcher, Self-employed

Jul 2020 – Oct 2020

- Used Hypothesis testing to backup the observations on Homework assessment and exam performance post-pandemic in Nepal
- Identified that Nepalese people have a biased opinion on the impact of COVID-19 at the level of Mathematics in Nepal.

Education

St. Xavier's College Loyola Campus, Maitighar, Kathmandu 44600

A-Level, Pure Science Jun 2018 - Aug 2020

Full Advanced Level degree in Physics (A*), Mathematics (A*), Chemistry (A), Further Mathematics (A), and Computer Science (A*)

Certifications

Data Science Math Skills by Duke University, Coursera, Issued Nov 2021

https://www.credly.com/badges/bcdc67ca-daa1-4ccb-80b1-0d023abe1b51?source=linked_in_profile

Learn JavaScript: Full-Stack from Scratch, Udemy, Issued Sep 2021

<https://www.udemy.com/certificate/UC-0ed78b88-852d-40d8-a97b-4cb8836a22ab/>

Machine Learning by Stanford University, Coursera, Issued Sep 2021

<https://www.coursera.org/account/accomplishments/certificate/F47NKM5HBSAF>

Awards

- **International Youth Math Challenge 2019 (Gold Honor)**, December 2019
The honor was awarded for all finalists who scored within top-10% internationally
- **4th National Physics-Math Olympiad (Creative Solution and Runner Up)**, February 2020
The competition was held as part of MechTrix 2020: 11th National Mechanical Engineering Expo organized by Society of Mechanical Engineering Students (SOMES), IOE Pulchowk Campus
- **National Olympiad in Informatics (4th position)**, August 2020
The competition held as part of Nepalese team selection for the International Olympiad in Informatics
- **1st Rato Bangala Math League (Runner Up)**, August 2019
It was a national level Math competition where questions were based on the syllabus of International Math Olympiad
- **6th SXC Mini-Marathon (Runner Up)**, December 2019
In this regional-level event, I ran a personal best of 43 minutes and 22 seconds for the 11.1 km distance

Additional

Language competencies

Nepali (native), English (proficient), Hindi (fluent)

Projects

UJane: A voice assistant powered by Machine Learning that helps students navigate their best-fit by giving information about American universities on the basis of various attributes like rankings, student-life, academics, and safety.

<https://github.com/KarkiAdit/UJane.git>

ChatAK: A chatbot powered by Machine Learning that helps users understand Aditya Karki (me) as a person by answering their personal questions. <https://github.com/KarkiAdit/ChatAK.git>

AlgoTutor: A desktop application that teaches implementation of standard algorithms of data structures like Stack, Queue, and Linked List. <https://github.com/KarkiAdit/AlgoTutor.git>

Hobbies and interests

Vlogging, Video Editing, Travelling, Dancing, Running, Cricket, Environmental Advocacy, Free Writing, Coding
