BIBEK BHATTA

CONTACT

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📍 Aithpur-6, Kanchanpur

SKILLS

Proficient Programming Languages
- Rust
- Python
- C
- Javascript

Video Editing
- Da Vinci Resolve
- Adobe Creative Suite

Cooking
- Culinary School
- Indian-Nepali Dishes

Olympiads
- IT Olympiad
- Astronomy Olympiad
- Mathematical Olympiad

Powerpoint Skills

EDUCATION

GCE A-LEVELS
St.Xavier's College
2021-2023

**SECONDARY EDUCATION EXAMINATIONS
BASIC LEVEL EXAMINATIONS**
Little Buddha Academy
2010-2021

LANGUAGES

Nepali

English

Doteli

Hindi

PROFILE

I am Bibek Bhatta, a student who loves everything that flies and thinks. Whether it is a rocket, a drone, or a neural network, I am fascinated by how they work and what they can do. I have self-taught myself many skills and tools in AI/ML, such as Python, TensorFlow, PyTorch, and OpenCV. I enjoy coding for fun and solving challenging problems. I am always eager to learn and explore. I have participated in several hackathons and online competitions, where I have shown my creativity and innovation. I believe that life is a journey of learning and discovery, and I want to make the most of it.

NOTABLE ACHIEVEMENTS
2013-2024

- Merit-based scholarships at St. Xavier's and Little Buddha Academy
- Highest GPA (4.00) recipient in Class 10 National Secondary Education Examinations
- 1st Place at Provincial IT Olympiad and 3rd Place at National IT Olympiad
- National Finalist in Astronomy Olympiad
- Founding member of the Infinita organization
- Bronze medal at the International Youth Math Challenge
- 4th place at BNKS Math League
- Organizer of NASA Space Apps Challenge, Bhaktapur
- Technical Advisor and Community Manager at the Mathematical Association of Nepal
- Won 2nd place and $500 at the MindsDB hackathon
- Won Swag Prize in Hack Squad Hacktoberfest
- Participated in Microsoft Imagine Cup, creating a large machine-learning model for plant disease detection
- Class 1st from class 3 to class 10. Classes of 100+ students each year.

WORK & EXPERIENCE

Mathematical Association of Nepal
Technical Lead and Community Manager   **2021-2024**

- Developed and deployed a web-based software that offered a comprehensive collection of math problems and resources for various topics and levels
- **Tech-stack:** Used **Python** and **Javascript** as the main programming languages, **Svelte-kit, Tailwind-CSS, and Daisy UI** for the backend and front-end, and Playwright for unit testing. Hosted it on Heroku and Locally.
- Created the official MAN discord bot with **Python**, using **Discordpy, Beautiful-soup,** and **Selenium** for web scraping and interaction

Freelancing
Freelancer   **2023-2024**

- Demonstrated creativity and technical skills by creating a website with **Three-JS** that used math to make custom animations of an airplane flying for Danphe Air, a Nepalese airline company.
- Showcased design and artistic skills by designing a logo for "Atmosphera", a Russian flower brand, in **Krita**

Hackathon and Fun Projects
Developer   **2021-2024**

- **NASA-Space Apps Challenge Global Nominee 2022.** Simulated Earth and International Space Station with day and night cycle using **Three-JS** and custom shaders in **GLSL**. Revolved ISS around Earth with real-time synchronized coordinates using **Python** and **Fast API.**
- Developed a custom recommendation engine for a travel app "Traverse" using **Python, SciKit-learn**, and **PyTorch**
- Developed a custom image recognition model using **Open-CV** and **Tensorflow** to detect trash in the environment. Integrated the model with a trash collection robot that used custom-built circuits and electronics to operate
- Made Image to ASCII converter with **Python, Numpy, and Open-CV.**
- Made a suite of Machine Learning Models for the "Agrisense" project during the Microsoft Imagine Cup with **PyTorch**, **Scikit-Learn**, and **Numpy**. Worked with Microsoft Azure Services to train one of the largest plant disease detection model with 86 million parameter.

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C O N T A C T

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H O B B I E S

Learning About Airplanes
Watching Rocket Launch
Coding
Photography
Guitar
Hiking
Chess (Current lichess rating 1981-rapid)
Movies(Recent Best: Full Time)
Video Editing
Origami

W O R D S

BB
Resiliant
Perfectionist
Hardworking
Night-Owl
Introvert
Colourblind
Weeb

C A R E E R   G O A L S

Aerospace Engineer
Hobbyist Developer
A Good Human

T E C H   S T A C K

Python
  PyTorch Beautiful-Soup Numpy Pandas
  MatPlotlib Scikit-Learn Open-CV
  RedditPRAW FastAPI DearPyGUI
JavaScript
  Three-JS Svelte Svelte-Kit TailwindCSS
  Prisma
Rust
  Rocket-rs Tauri Bevy
C/C++
  DearImGUI
Godot Engine

Volunteering and Clubs

Infinita and Momo-Squad   2019-2023

- Founding member of "Infinita" organization and took responsibility for conducting NASA Space Apps Competiton in Bhaktapur-Nepal.
- Team lead of Momo-Squad, a programmer club, and competed in hackathons like Microsoft Imagine Cup 2022, Hacktoberfest, KU-Hackfest, NASA Space Apps Challenge, St.Xavier's Ideathon, MindsDB Hackathon, and more.
- Taught Machine Learning to 100+ participants during NASA Space Apps
- Taught underprivileged students with the help of Routine of Nepal Band(RoNB) and Infinita for weekly sessions on computer science and mathematics.
- Collaborating with orphanages across Kathmandu to conduct weekly sessions on mathematics, computer science, and social sciences.

St.Xavier's Partnership In Education (SXC PIE)   2021-2023

Mathematics Teacher

- I taught mathematics to underprivileged students as a volunteer teacher through St. Xavier's Partnership In Education (PIE) program at 5:45 a.m. from disadvantaged communities who faced many academic challenges. Most of them lived in harsh conditions in the slums along the Bagmati River near my school.
- To teach them effectively, I visited their homes through the PIE program learned about their backgrounds and aspirations, and gave personal lessons.

Rural Immersion Camp

Head Chef   2023

- Prepared meals for 180 students during a rural immersion camp at Lele, Nepal. Meals for 3 times a day not including breakfast and snacks throughout the day. Cleaned all the utensils and managed a group of 12 students.

St.Xavier's A-Level Math Society   2019-2023

- Founder. Participated in a lot of math olympiads like BNKS Math League, St.Xavier's Inter-School Math Mela, National Math Olympiads, International Youths Math Challenge. Secured some position in all of them.

Quiz & Spelling & Olympiads   2019-2023

- Won, twice, Sudurpaschim province quiz competition beating high schoolers. Won every single in-school quiz competition during middle school.
- Won provincial spelling competition once during middle school. A regular winner of school-based competitions.
- Won Provincial Information Technology and Astronomy Olympiads. National 3rd in Information Technology Olympiad. National Finalist in Astronomy Olympiad.

Table Tennis & Badminton   2016-2022

- Played with the club as a semi-professional during my middle school years. Participated in district-level competitions. Won in school competitions. Won gold in high school.
- Played with the club as a semi-professional during my middle school years. Participated in district-level competitions. Won in school competitions. Reached semi-finals in high school.