

Bibek Bhatta

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Summary

Python Developer with over 4 years of experience, proficient in Python and its libraries such as FastAPI, PyTorch, Pandas, and NumPy. Passionate about **Machine Learning**, and **API's** with a proven track record of contributing to open-source projects. Skilled in **data analysis and visualization** using tools like Matplotlib and Seaborn. Experienced with **version control** (Git), and **cloud services** (Heroku). Strong analytical and problem-solving abilities, and a dedicated **math enthusiast**.

Experience

Backend Engineer and Machine Learning Developer

usjany.com • Kathmandu, Bagmati

08/2024 - Present

- Working on a **production-level backend server** written in **FastAPI-Python** and Python libraries(**BeautifulSoup, Requests**) and **Postgres** as the database server.
- Working on **custom Large Language Model** powered by open source **LLAMA-3.1 8b** model from Meta AI with RAG.

Technical Lead/Developer

Mathematical Association of Nepal • Kathmandu, Bagmati

06/2021 - Present

- **Developed registration and training software** using Python, FastAPI, DaisyUI, and SvelteKit, enhancing user experience and operational efficiency.
- **Created training software** with pure Python and DearPyGUI, supported by a FastAPI backend, streamlining training processes and improving functionality.
- Wrote PDF to image generator for LATEX processing and made a custom database for math problems in MongoDB.

Machine Learning Developer

Agrisense • Kathmandu, Bagmati

02/2023 - 06/2023

- **Developed a custom CNN-based image processing model** for plant disease detection, enhancing agricultural diagnostics.
- Utilized **Scikit-learn, NumPy, and OpenCV** to create and implement the model, ensuring high accuracy and efficiency.

Machine Learning Developer

Traverse • Kathmandu, Bagmati

12/2022 - 05/2023

- **Developed a custom recommendation engine** to suggest places based on user itinerary and location, enhancing user experience and personalization.
- Utilized **NumPy and PyTorch** to build and implement the engine, ensuring robust and accurate recommendations.

ThreeJS Developer

NASA Space Apps Challenge • Kathmandu, Bagmati

10/2022 - 11/2022

- **Developed a 3D model of the International Space Station (ISS)** using Three.js, simulating its orbit around the globe.
 - Utilized **Three.js and JavaScript** exclusively to achieve realistic and interactive simulations.
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Skills

Python, ThreeJS, SvelteKit, Rust, Pytorch, FastAPI, niceGUI, Mathematics

Education

A-Levels

St.Xavier's College • Kathmandu, Bagmati

08/2023

- Bronze Honor International Youth Math Challenge.
- Bronze National Science Exhibition
- Bronze Budanilkantha National Math League
- Gold Provincial Information Technology Olympiad
- Silver National Information Technology Olympiad

SEE

Little Buddha Academy • Kanchanpur, Sudurpaschim

08/2021